

Application notes

MediaKind (formerly Ericsson) RX8200 Upgrade to FW version 8.25.1

101

Version 1.1 (July 2020)



Contents

INTRODUCTION	2
PREPARATION	2
UPGRADE PROCEDURE	2
3.1 Overview	2
3.2 Install software with Upgrade Utility	2
3.2.1 Compatibility	2
3.2.2 Installation	3
3.2.3 Quick user guide	6
MANUAL UPGRADE	.10
4.1 Requisites for manual upgrade	10
4.2 Download upgrade files from FTP	10
4.3 Upgrade RX8200 to v7.1.5 (bank 0)	10
4.4 Upgrade RX8200 to v7.1.5 (bank 1)	12
4.5 Normalize settings on the RX8200	14
4.6 Upgrade RX8200 to v8.25.1 (bank 0)	16
	PREPARATION UPGRADE PROCEDURE 3.1 Overview 3.2 Install software with Upgrade Utility 3.2.1 Compatibility 3.2.2 Installation 3.2.3 Quick user guide MANUAL UPGRADE 4.1 Requisites for manual upgrade 4.2 Download upgrade files from FTP. 4.3 Upgrade RX8200 to v7.1.5 (bank 0). 4.4 Upgrade RX8200 to v7.1.5 (bank 1). 4.5 Normalize settings on the RX8200.

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

Document version





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 <u>will upgrade units running software version 5.12 or later releases only</u>. 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)

🕞 RX8000UpgradeUtility-8.2	5.1.exe	17.04.2020 14:43	Application	79 252 KB
Co Fil Di	ompany: Meo le version: 8.2		25.1 Setup	

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

Setup - RX8000UpgradeUtility-8.25.1	_		×
Select Destination Location Where should RX8000UpgradeUtility-8.25.1 be installed?			ЧK
Setup will install RX8000UpgradeUtility-8.25.1 into the followin	ng fold	er.	
To continue, click Next. If you would like to select a different folder, clic	ck Bro	wse.	
C: MediaKind \RX8000UpgradeUtility-8.25.1	Bro	owse	
At least 187.3 MB of free disk space is required.			
Next >		Car	ncel

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



🔂 Setup - RX8000UpgradeUtility-8.25.1	_		×
Select Start Menu Folder Where should Setup place the program's shortcuts?		1	1 K
Setup will create the program's shortcuts in the following St	tart Mer	nu folder.	
To continue, click Next. If you would like to select a different folder,	click Bro	owse.	
MediaKind\RX8000UpgradeUtility-8.25.1	В	rowse	
< Back Nex	t >	Can	icel

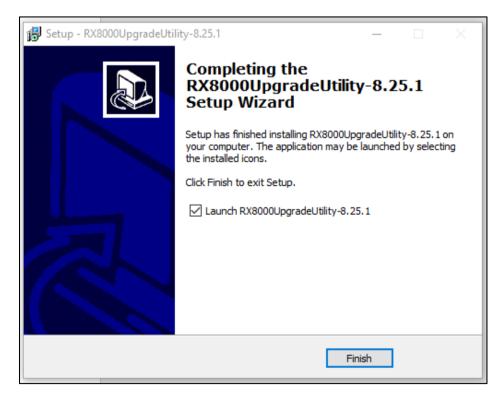
• When you are ready to proceed with the installation, click Install.

ady to Install Setup is now ready to begin installing i your computer.	RX8000UpgradeUtility-8	.25.0.BETA_2 on	1
Click Install to continue with the install change any settings.	lation, or click Back if yo	u want to review o	r
Destination location: C: WediaKind'\RX8000UpgradeUti Start Menu folder: MediaKind'\RX8000UpgradeUtility			^
¢			~



🔀 Setup - RX8000UpgradeUtility-8.25.1	_		×
Installing Please wait while Setup installs RX8000UpgradeUtility-8.25.1 on you	r compu	ter.	1 X
Extracting files C: \MediaKind \RX8000UpgradeUtility-8.25.1\runtime \bin \jfxwebkit.dll			
		Car	icel

• 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

Export View Tools Help	the same of some of some first some					
IP Address Unit Name Model Type	Code version of software banks Inactive Active	Progress State	Response Time Switch	Unit Discovery Unit Details		>
192.168.144 Advanced RX8200	Unknown 8.21.0 (Bank 0)		2 ms		ery STEI	P 1
STEP 2				Single Device IP Address	192.168.144.15	Find
1				IP address range	192.168.144.15	-
					192.168.144.15	Scan
				Broadcast on NIC(s) Maximum wait No more ar	Auto detection 5000 ddresses to poll.	ms
				1. 'Find' your 2. Select a 'B 3. Press the '	ank' for upgrade Update Units' button	
			STEP	Ŷ	(s) selected pdate Units	

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).

<u>We recommend you upgrade the inactive bank only</u> 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:



Module XXXXXXX SW Ver HD Ver Notes SW Ver HD Ver Notes
Module RX800X FW Ver FW Ver No Ver Second Ver No Ver Second Ver No Ver Second Ver No Ver Second Ver<
Module RX800X FW Ver FW Ver M DV er Serial Nut 00 RX8000 8.25.1 (Bank 0) 0.24.1 (Built: Tuc Mar 3109:2) 1.7.4 H T00796G 28 SAT 52 ACM ~~ 24.1 (Bank 0) 12002 44 SFI P Card 3.5.0 3.26 1202 16 Audio 1 12.9 16 Audio 2 1.59 1.25 1.24 36 M PG2/4 Decoder4/22 S.925255 5.72526 4.10
Module Name SW Ver FW Ver BU Ver Serial Num 00 RX8000 8.25.1 (Bank 0) 0.24.1 (Built: Ture Mar 31 0923 1.7.4 HT907960 28 SAT 52 ACM 1205 2 1205 2 34 SFF IP Card 3.50 3.26 Acm 2.4.0 1205 2 16 Audio 1 15 HO Output 1.59 5.72526 12.10
Module Name SW Ver FW Ver HD Ver Serial Nu 00 RX8000 8.25.1 (Bank 0) 0.24.1 (Built: Tue Mar 31 0923 1.7.4 H70796C 28 SAT 52 ACM 12652 34 SFF IP Card 3.50 3260.0 2.41.1 16 Audio 1 0.22 15 Molouty 1.59 1.52 36 MPG62/4 Decoder 4:22 59.25255 5.72526 4.10
Module Name SW Ver FW Ver HD Ver Serial Nu 00 RX8000 8.25.1 (Bank 0) 0.24.1 (Built: Tue Mar 31 0923 1.7.4 H70796C 28 SAT 52 ACM 12652 34 SFF IP Card 3.50 3260.0 2.41.1 16 Audio 1 0.22 15 Molouty 1.59 1.52 36 MPG62/4 Decoder 4:22 59.25255 5.72526 4.10
Module Name SW Ver FW Ver HD Ver Serial Nu 00 RX8000 8.25.1 (Bank 0) 0.24.1 (Built: Tue Mar 31 0923 1.7.4 H70796C 28 SAT 52 ACM 12652 34 SFF IP Card 3.50 3260.0 2.41.1 16 Audio 1 0.22 15 Molouty 1.59 1.52 36 MPG62/4 Decoder 4:22 59.25255 5.72526 4.10
SAT S2 ACM 12052 34 SFF IP Card 3.5.0 3.26 2.4.0 16 Audio 1 0.22 16 Audio 2 0.22 16 Audio 2 0.22 15 HO Output 1.5.9 1.2.1 36 MPEG2/4 Decoder 4:22 5.9.25255 5.7.2526 4.1.0
34 SFF IP Card 3,50 326 2,40 16 Audio 1 0,22 16 Audio 2 0,22 16 Audio 2 0,22 16 Ho Output 1,59 12,1 36 MPEG2/4 Decoder 4:22 59,25255 5,75236 4,10
Addio 1 0.2.2 16 Addio 2 0.2.2 15 HD Output 1.5.9 1.2.1 36 MPEG2/4 Decoder 4:2:2 5.925255 5.72526 4.1.0
Audio 2 0.2.2 15 HD Output 1.5.9 1.2.1 36 MPEG2/4 Decoder 4:2:2 59.25255 5.72526 4.1.0
15 HD Output 1.5.9 1.2.1 36 MPEG2/4 Decoder 4/2:2 5.9.25255 5.7.25236 4.1.0
36 MPEG2/4 Decoder 4:2:2 5.9.25255 5.7.25236 4.1.0
22 CA Lite 0.7.2 0.2.0
30 DownConverter v1.30.24753 2.2.0
10 Control Interface 0.4.0

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*

IP Address	Uni Option	del Typ	e		de version o	of softwa		Progress State	Response Time	Unit Discovery Unit Details							
0.73.225.12	Advanced	RX8200		Inacti Unl	ive known		Active 8.25.1 (Bank 0)		1013 ms	Unit Details							
										Refre	ih led Modules	RX8XXX					
										Slot	Board Type	Module Name	SW Ver	FW Ver	HD Ver	Serial Nu	
										0	1900	RX8000	8.25.1 (Bank 0)	0.24.1 [Built: Tue Mar 31 09:23	1.7.4	HT9D7960	
										1	1928	SAT S2 ACM				12052	
										2	1934	SFF IP Card	3.5.0	3.26	2.4.0		
										3	1916	Audio 1			0.2.2		
										4	1916	Audio 2			0.2.2		
										5	1915	HD Output		1.5.9	1.2.1		
										7	1936	MPEG2/4 Decoder 4:2:2	5.9.25255	5.7.25236	4.1.0		
										8	1922	CA Lite		0.7.2	0.2.0		
										9	1930	DownConverter		v1.30.24753	2.2.0		
										10	1910	Control Interface			0.4.0		
												1. 'F 2. Sr 3. Pr	How to upgrade ind' your unit elect a 'Bank' for ress the 'Update 0 unit(s) select Updat eboot Units	upgrade Units' button cted			



MK Unit Upgra	ala Hailia - 0	25.1 PV9000										-		_			
Export Vie															- ^		
Export Vi	ew Tools	нер															
IP Address	Unit Name	Model Type		on of softwar		Progr	ess State	Response Time	Response Time Unit Discovery Unit Details								
10 70 005 10		01/02/02	Inactive		Active			4004									
10.73.225.12	Advanced	KX8200	Unknown		8.25.1 (Bank 0)			1004 ms	≡ Unit D	etails							
									Refresh								
									17								
					Configuration	n options				×	Name	SW Ver	FW Ver	HD Vor	Serial Nun		
					- Network	Settings		Upgrade S	ettings		- tunic		0.24.1 [Built: Tue Mar 31 09:23		HT9D796G		
					Network T	imeout (ms)	5,000	Retry upgrad	le on failure	\checkmark					12052		
					Bypass pro		\checkmark	Maximum n	umber of retries	3 -		3.5.0	3.26	2.4.0			
						ction devices*	\checkmark	Force upgra						0.2.2			
								Force upgra	Je .					0.2.2			
					Enable sys	UpTime check	\checkmark	- Advanced	Settings				1.5.9	1.2.1			
								Advanced m	ode (for experts only)	\checkmark	oder 4:2:2	5.9.25255	5.7.25236	4.1.0			
										-			0.7.2	0.2.0			
					* Application	restart is requir	ed.				er			2.2.0			
					Defaults				ОК	Cancel	ce			0.4.0			
					Deladits	1			ÖK	cancer							
												How to upgrade	a unit				
												ind' your unit elect a 'Bank' for	upgrade				
												ress the 'Update					
												0 unit(s) selec	ted				
											/	\					
											4	Update کے	e Units				
											=	Updati					
3											U	Reboot Units	Switch Banks				

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.

MK Unit Upgrade Utility - 8.25.1 RX8000								-	0 ×				
Export View Tools Help									_				
IP Address Unit Name Model Type	Code version of software banks Inactive Active	Progress State Resp	ponse Time	Unit Discovery Unit Details									
10.73.225.12 Advanced RX8200	Unknown 🖌 8.25.1 (Bank 0)	1014	4 ms	Unit Details									
			Re	Refresh									
			In	Installed Modules RX8XXX									
			SI	Slot Board Type Module Name SW Ver FW Ver HD Ver Serial Net									
			0	1900	RX8000	8.25.1 (Bank 0)	0.24.1 [Built: Tue Mar 31 09:23	1.7.4	HT9D796G				
			1										
			2	1934	SFF IP Card	3.5.0		2.4.0					
			3	1916	Audio 1			0.2.2					
			4	1916	Audio 2			0.2.2					
			5	1915	HD Output			1.2.1					
			7	1936	MPEG2/4 Decoder 4:2:2	5.9.25255		4.1.0					
			8	1922	CA Lite			0.2.0					
			9	1930	DownConverter			2.2.0					
			10	1910	Control Interface			0.4.0					
				Konto upgrade a unit 1. Find your unit 2. Select a Bank for upgrade 3. Press the 'Update Units' Update Units Update Units W Rebot Units Switch Banks									



3.2.3.3 STEP 3 - Upgrade Units

MK Unit Upgrade Utility - 8.25.1 RX800	0								-	0 ×
Export View Tools Help										
IP Address Unit Name Model Ty	Code version Inactive	n of software banks Active	Progress State	Response Time	Unit Discovery Unit Details					>
10.73.225.12 Advanced RX8200	Unknown	✓ 8.25.1 (Bank 0)		1013 ms	Unit Details					
					Refresh					
					Installed Modules RX8XX	x				
				_	Slot Board Type	Module Name	SW Ver	FW Ver	HD Ver	Serial Nun
		Confirmation	n		×		8.25.1 (Bank 0)) 0.24.1 [Built: Tue Mar 31 09:23	1.7.4	HT9D796G
			Are you sure you want	to ungrade the 1 s	elected unit?	ACM				12052
			nie jou sure jou nam	to opgrade the FS		Card	3.5.0		2.4.0	
			1 Dual Boot unit for						0.2.2	
			Upgrading to the c recommended and			1			0.2.2	
			the upgrade.			put		1.5.9	1.2.1	
			The unit will also b	e rebooted severa	times.	/4 Decoder 4:2:2	5.9.25255		4.1.0	
									0.2.0	
					Yes No	onverter			2.2.0	
						Interface			0.4.0	
							How to upgrade	<u>e a unit</u>		
						2. S	elect a 'Bank' for			
						3. P	ress the 'Update	Units' button		
							1 unit(s) selec	cted		
						4	Updat	e Units		
<				>		心	Reboot Units	Switch Banks		

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.

MK Unit Upgr	ade Utility - 8.25.1 RX8000										-	
Export V	iew Tools Help											
	Unit Name Model Type	Code version of s	oftware banks	Progress State	Response Time	Unit Di	scovery Unit	Details				>
IF Address	onic Name Model Type	Inactive	Active	Progress state	Response rime		ר. ר					
10.73.225.12	Advanced RX8200	Unknown	100%	Upgrade complete	1015 ms		Unit De	tails				
							1					
						Refre	sh					
						Insta	lled Modules	PVOVVV				
							Board Type		SW Ver	FW Ver	HD Ver	Serial Nun
						0	1900	RX8000		0.24.1 [Built: Tue Mar 31 09:23		HT9D796G
						1	1928	SAT S2 ACM				12052
						2	1934	SFF IP Card	3.5.0	3.26	2.4.0	
						3	1916	Audio 1			0.2.2	
						4	1916	Audio 2			0.2.2	
						5	1915	HD Output		1.5.9	1.2.1	
						7	1936	MPEG2/4 Decoder 4:2:2	5.9.25255		4.1.0	
						8	1922	CA Lite			0.2.0	
						9	1930	DownConverter			2.2.0	
						10	1910	Control Interface			0.4.0	
									How to upgrade ind' your unit	<u>a unit</u>		
								2. S	elect a 'Bank' for			
								3. P	ress the 'Update	Units' button		
									1 unit(s) selec	ted		
								4	Update	e Units		
3								С С	Update	Switch Banks		

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:

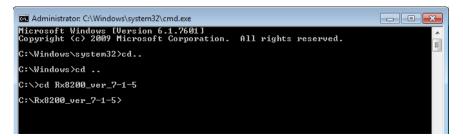
ftp://filexchange.ebu.ch	
User	ets
Password	vm37t5kp

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.



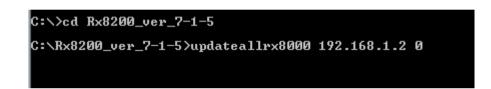


Ping the device IP address.

Pinging 192.168.1.2 with 32 bytes of data:	
Reply from 192.168.1.2: bytes=32 time=1ms TTL=64 Reply from 192.168.1.2: bytes=32 time(1ms TTL=64 Reply from 192.168.1.2: bytes=32 time=1ms TTL=64 Reply from 192.168.1.2: bytes=32 time=8ms TTL=64	
Ping statistics for 192.168.1.2: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 0ms, Maximum = 8ms, Average = 2ms	

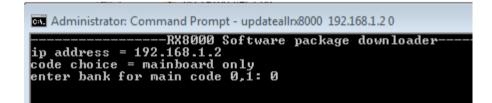
Now you can type the command:

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.



	Administrator: C/Windows/system32/cmd.exe
	• Examination terms and principlination terms of the second se
	230 User logged in. ftp> binary 250 ftp> Hash mark printing On ftp: (2048 bytes/hash mark).
At the end you should see the	fejo hach put anin.bin appl 200 Set port fo 192.168.1.1 : 29734. 198 opening data connection 199 opening data connection
message:	
ftp: 6342230 bytes sent in	
Seconds Kbytes/sec.	
If you do not see this message	
DO NOT REBOOT:	226-starting update please wait
Go back to step 2	226 update in progress 275 update States 275 u

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

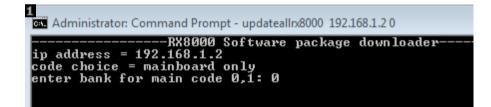
(where 192.168.1.2 is your RX8200 IP address)

C:\>cd Rx8200_ver_7-1-5

C:\Rx8200_ver_7-1-5>updateallrx8000 192.168.1.2 0

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.

ERICSSO	RX8200 RX8200								
Status	Device Info Alarm	ns Customization CA	Input Service <i>plus</i> Decode Ou	tput Do	wnload SNMP P	resets Save/Lo	oad Help		
🛄 De	vice Info > Mod	ules							
£	🗘 Refresh								
Modul									
		need Toole Medule In	Name	HW-TD	Conial Murahan		SW Build Time		
0100 0						SW Version		FW Version	PLD Versio
0 0		Board Type ModuleID						FW Version 0.18.29 [Built:Thu Nov 28 14:44	
0 0		1900	RX8000	1.7.0	17247	7.1.5 (Bank 0)		0.18.29 [Built:Thu Nov 28 14:44	
-				1.7.0	17247			0.18.29 [Built:Thu Nov 28 14:44	
1 0 2 0		1900 1931	RX8000 Combined S2 IP	1.7.0	17247 3453	7.1.5 (Bank 0) 0.31		0.18.29 [Built:Thu Nov 28 14:44 0.90	1.2
1 0 2 0		1900 1931 1918	RX8000 Combined S2 IP IP Out	1.7.0 0.1.0	17247 3453 	7.1.5 (Bank 0) 0.31 2.4		0.18.29 [Built:Thu Nov 28 14:44 0.90 1.0.18	1.2
1 0 2 0 3 0 4 0		1900 1931 1918 1916	RX8000 Combined S2 IP IP Out Audio 1	1.7.0 0.1.0 0.2.2	17247 3453 	7.1.5 (Bank 0) 0.31 2.4		0.18.29 [Built:Thu Nov 28 14:44 0.90 1.0.18	1.2
1 0 2 0 3 0 4 0		1900 1931 1918 1916 1916	RX8000 Combined S2 IP IP Out Audio 1 Audio 2 HD Output	1.7.0 0.1.0 0.2.2 0.2.2 1.2.1	17247 3453 	7.1.5 (Bank 0) 0.31 2.4 	 	0.18.29 [Built:Thu Nov 28 14:44 0.90 1.0.18 1.5.7	1.2
1 0 2 0 3 0 4 0 5 0		1900 1931 1918 1916 1916 1915	RX8000 Combined S2 IP IP Out Audio 1 Audio 2 HD Output	1.7.0 0.1.0 0.2.2 0.2.2 1.2.1	17247 3453 	7.1.5 (Bank 0) 0.31 2.4 	 	0.18.29 [Built:Thu Nov 28 14:44 0.90 1.0.18 1.5.7	1.2



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:

Use AFD/Bar Data:		
AFD/Bar Data Timeout:	\$	
AFD/Bar Data Timeout Period:	2s 🔻	
Rx Delay 4:2:0 (User-defined mode only):	445	ms
Rx Delay 4:2:2 (User-defined mode only):	445	ms
422 VSync Lock:		
R× Delay Mode:	User-defined 🔻	
R× Delay Override (MPEG-2):		

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

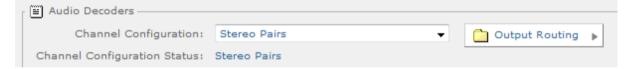
E		RX82 Advance		ar Receiver	г										
St	atus D	evice Info	Alarms	Customi	zation	CA	Input	Service	plus	Decode	Output	Download	SNMP	Presets	Save/Load
	🗋 Deo	ode > Adv Apply Ch		🗘 Refre	sh										
1	\dvanc	ed													
	🗉 Sel	ection Con	trol —												
			Serv	ice Hunt:	\checkmark	РМТ	r Update	Mode:	REF	RESH 💌		SI Mod	e: Aut	o Detect	•
			Serv	ice Drop:							Detec	ted SI Mod	e: Unk	nown	
		Maj	or/Minor ⁻	Tracking:											
	Decry	pt Service :	Slaved to	Decode:	•										

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**:



RX8200 RX8200_2RF
Status Device Info Alarms Customization CA Input Service <i>plus</i> Decode Service Split Output Download S
Decode > Audio Output Routing
🔁 🖌 Apply Changes
Audio Output Routing
Audio Outputs
Audio Connectors
AUDIO OUT 1 sourced from: Audio 1, STEREO - Status: RUNNING Clipping Level: 18 dB
AUDIO OUT 2 sourced from: Audio 2, STEREO 💌 Status: RUNNING Clipping Level: 18 dB
AUDIO OUT 3 sourced from: Audio 3, STEREO 💽 Status: RUNNING Clipping Level: 18 dB
AUDIO OUT 4 sourced from: Audio 4, STEREO • Status: RUNNING Clipping Level: 18 dB
E SDI Embedding
Group 1 (ch 1+2): Audio 1, STEREO - Status: RUNNING
Group 1 (ch 3+4): Audio 2, STEREO - Status: RUNNING
Group 2 (ch 5+6): Audio 3, STEREO - Status: RUNNING
Group 2 (ch 7+8): Audio 4, STEREO Status: RUNNING
Group 3 (ch 9+10): Audio 5, STEREO Status: RUNNING
Group 3 (ch 11+12): Audio 6, STEREO - Status: RUNNING
Group 4 (ch 13+14): Audio 7, STEREO Status: RUNNING
Group 4 (ch 15+16): Audio 8, STEREO 💽 Status: RUNNING

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":

Audio Decoders — Channel Configuration	: 16 Channe	l Aligned (M	US only) Audio 💌	🛄 Output Routing 🕨					
Channel Configuration Status: 16 Channel Aligned (MUS only) Audio									
Audio 1									
PID: 4112 - MUS -	Status:	RUNNING	Output Channels:	2					
	Coding Std:	MUS	Bitrate:	384 kbits/s					
	Mode:	DECODE	Sampling Frequency:	48000 Hz					
	Language 1:		Buffer Usage:	3 %					
	Language 2:		Uptime:	0000 00:04:55 DAYS H:M:S					

• • •



[🗏 Audio 8				
PID: 4224 - MUS 💌	Status:	RUNNING	Output Channels:	2
	Coding Std:	MUS	Bitrate:	384 kbits/s
	Mode:	DECODE	Sampling Frequency:	48000 Hz
	Language 1:		Buffer Usage:	11 %
	Language 2:		Uptime:	0000 00:04:53 DAYS H:M:S

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.