EVICE FIRMWARE	Revision	0.40
	Date	17/02/2025

Device firmware

Update device firmware to make sure that all new features and functionality of your hardware are up-todate.

New firmware can require a minimum version of Toolset. You can find the latest versions of Toolset on the Cosworth website (<u>https://www.cosworth.com/motorsport/products/toolset/</u>).

Download firmware

You can download the latest device firmware from the **Upgrade** tab of the **Settings** page when a PC is connected to the internet.

1 Contares 850 AMR	Data	(••) Live Data	Actions	1 Setups	Channels	Settings			
Global Settings	Update Settings								
Network	Configure the settings that control software updates.								
Data Offload	✓ Check f Only all	Check for updates on startup (once per day) Only allow service releases							
Telemetry	Check for: Devi	ce updates							
Diagnostics	Appl	ication updates							
1 Upgrade		K HOW							
About	Device Updates								
	Last check: 15/10/2024 15:44:41								
	Badenia 2 Updates (4 firmware update(s))								
	Badenia 5 Updates (16 firmware update(s), 1 setup(s), 1 merge file(s))								
		VMk2 Updates (2 fin	mware update(s))						
		VMk3D Updates (9 f	ïrmware update(s))					
		J 10.3 Updates (5 fin	mware update(s))						
		J 7.0 Updates (1 firm	ware update(s))						
	Centaurus 5 Updates (22 firmware update(s))								
	CLU Updates (11 firmware update(s))								
		Updates (5 firmware	e update(s))						
	Se	lect all Clear s	election						
	Down	nload and import now							

An upgrade prompt (up arrow) is displayed next to the device on the **Devices** page when new device firmware is available.





Update firmware

Download the latest firmware version, and then connect to, and activate, the device. Make sure that the device is in the 'Idle' state and active before you update the firmware.

Note: Updating firmware removes the setup from the device, together with any stored NV RAM variables (for example QM mode). Make sure that a copy of the device setup is saved, or **Read from Active Device** on the **Setups** page is selected, before you update the firmware. This saves the current setup stored on the device in your list of setups.

1 Centaurus 5xx #1	Data	(••) Live Data	Actions	1 Setups	Channels	t	Settings		
Updated firmware is available for the selected device(s).									\otimes
🕀 Add Device 👽 Activate 🕐 Change Variant 🌘 Update Firmware 🕑 Import Firmware 🙆 Test Connection 🔞						1	Centaurus 5 #	#120 Properties	\oslash
▲ Centaurus 5xx (5)					۲		Currently conne	ected	
Centaurus 5xx #120 Power Controller Centaurus 520	Disconnector	Centaurus 5xx : Power Controll Centaurus 520	#156 er 🖉	connected Centau	irus 5xx #352 Controller us 520		Car Name Driver Name	Centaurus 5xx #12	
Centaurus 5xx #379 Power Controller Centaurus 560						i.	Category Short Commer Long Commen	t	
 Centaurus 7xx (1) CLU (1) 					1 1 1 1 1		Driver Comme	nt	
 CLUP (1) ICD (1) 					1		Automatic Offl	oad Inherited (Disable	d)
ICD #1606 Display ICD Ultra					U	1	ldentity Info Variant	Centaurus 520	
Group B	/ Product	✓ Sort By	Car Name	 Direction 	Ascending	~	IP Address Serial Number	172.16.50.0 120	Ű

The following window shows the current firmware on the device.

pdate Firmware		2
Step 1	ne to use for this ungrade, or select an e	visting one from the list below.
Select Code Package	entaurus 5xx - 011-610100 - 3.2 2024-08-	14 (Update 6)
Select code Package		
Step 2		
Verify that the code file of	ontains the expected firmware and meta	data versions.
Component	Current Version	New Version
Bootloader	CHP Cortex-A9 Boot Loader 0.8	
Operating System	kappa 6.2.24 (Release)	kappa 6.2.24
Device	Centaurus 5xx	
Application	3.2.22	3.2.29
Power FPGA	A 2.0.2	2.0.3
✓ Force Update		
Step 3		
Perform the update.		
Note, this can take a long Updating to the selected	time and it is vital that you do not unplu firmware will result in the loss of any set	ug the active device during the update. up currently on the device. If not already present in your
local setups collection, th Setups tab.	e current setup can first be obtained fror	n the device using 'Read from Active Device' within the
	Update (Cancel

Step 1. Browse to the location of the .code package required for the update.

Step 2. Select the package. Toolset shows the differences between the two code packages.

Step 3. Confirm, and then click **Update** to begin installation of the new package. The **Update Firmware** window shows progress of the installation. When installation is complete, click **OK**.

Update Firmware		×
A DO	NOT UNPLUG DEVICE 🛦	
Operating System		(.)
Application		(j
Power FPGA		
Status: Transferrin	g App. Image () OK	



After the update, the device shows as a blank device in Toolset, indicated by the '<No Variant>' text in the device information box (1).

You now need to send the token and setup to the device. Click Change Variant (2).

🕇 <> Centaurus 5xx #1 Data	Live Data Actions	1 Setups C	Channels 🕇 Se	ettings	
1 Updated firmware is available for the selected device	:(s).				\otimes
Add Device 🖌 Activate Change Variant	👚 Update Firmware 🕁 In	nport Firmware 🙆 Tes	st Connection 🔞	Centaurus 5 #120	Properties
∡ Centaurus 5xx (5) 2			Ô	Currently connected	
Centaurus 5xx #120 Power Controller Centaurus 5xx <no variant=""></no>	1 Disconnected	aurus 5xx #156 er Controller urus 520		Car Name Driver Name	Centaurus 5xx #120
Centaurus 5xx #352 Power Controller Centaurus 520	Disconnected Centa	aurus 5xx #379 er Controller urus 560		Category Short Comment Long Comment	Power Controller
 ▷ Centaurus 7xx (1) ▷ CLU (1) 			0	Driver Comment	
▷ CLUP (1)			۲	Automatic Offload	Inherited (Disabled)
ICD (1) ICD #1606 Display ICD Ultra			۲	Identity Informat Variant IP Address Serial Number	tion Centaurus 5xx <no variant=""> 172.16.50.0</no>
Group By Product	 Sort By Car Nam 	e ^v Direction	Ascending	Serial Number	120

When prompted, select the required variant token, and then click **Change**. When the token is ready to be sent to the device, an exclamation mark in a warning triangle is displayed next to the device.



On the **Setups** page, open the setup, and then click **Send** to transfer the setup to the device.

A dialog box is displayed to prompt you to update the setup to match the new firmware on the device. Select **Use Device Variant**.



You can also change the setup variant on the main **Setups** page via the **Change Variant** option to avoid the 'Use Device Variant' prompt.

🕇 < Centaurus 5xx #1	Data	(••) Live Data	Actions	Setups	Channels	1 Settings					
										Ø	\mathbf{B}
🖄 Open 🕢 Rename 🕅 Copy	New	Read from Active	Device 🕕 Im	port ①Expo	rt 🔁 Compa	ire Setups 🕒	Apply Merge File	Change M	letadata 🤇	Change Variant	(
Name				State	Device	- Me	etadata Model	Project	Variant	Last Modifi	ed
							1			15/10/2024	16:35:42

When the setup is complete, the token is uploaded to the unit.

Sending Setup	Sending Setup
Sending setup	Send succeeded
949 of 2518 kilobytes sent	
	OK 🛞 Cancel

After an update, the device is displayed in an 'Idle' state on the **Devices** tab. The device firmware information is updated in **Device Properties**.