

Updating Cobalt[®] Cards Using Firmware Upload

Cobalt COMPASS[®] and FUSION3G[®] cards can be updated with the latest firmware in just minutes. Following the simple steps here helps ensure a smooth and trouble-free update.

Note: COMPASS[®] and FUSION3G[®] cards retain the previous firmware in card memory, thereby providing firmware redundancy that allows reverting to the previous firmware should any problems arise when new firmware is uploaded to the card.

Checking for and Obtaining Firmware from Cobalt's Web Site

1. Go to www.cobaltdigital.com → Support → Firmware Downloads

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				Customer Supp	ort
			N	> Firmware Down	loads
				Reference Docu	uments

2. The Latest Firmware Versions page shows the latest versions for various Cobalt[®] cards. Check your card's version in its DashBoardTM Card Info pane.

Firmware

This page provides the latest firmware versions for Cobalt Digital's COMPASS® 9000 series cards and Fusion3G® 9900 series cards for openGear®, as well as other Cobalt products as listed. **Note:** If a product does not appear here, this typically means no upgrade firmware is available or pending for the product.

Cobalt recommends the latest version of our openGear® control software DashBoard™.

For instructions on using DashBoard™ to update the firmware of a card, please consult our firmware update guide.

Product	Current Version	Release Date	Firmware File
9001	Revision 214	11/6/2013	9001_rev_214_firmware.bin Release Notes
9002	Revision 215	11/6/2013	9002_rev_215_firmware.bin Release Notes
9003	Revision 211	11/5/2013	9003_rev_211_firmware.bin Release Notes
9004	Revision 212	11/5/2013	9004_rev_212_firmware.bin Release Notes
9005	Revision 216	11/6/2013	9005_rev_216_firmware.bin Release Notes
9006	Revision 217	11/6/2013	9006_rev_217_firmware.bin Release Notes
9011	Revision 46	5/8/2012	9011_rev_46_firmware.bin

3. Click on the **Firmware File** link for your card ("9006_rev_217_firmware.bin" in the example above). A dialog opens in which the file can be downloaded to a location browsed to on your computer.

After the firmware downloads to your computer, upload the firmware to your card as described in the remainder of this Guide.

Saving Your Presets

The Presets feature on your card allows you to save card user setups. While your card presets are normally preserved when a firmware update is performed, you should always save your presets on a computer **before** doing a firmware update.

Save (download) presets from your card to create a Presets file on your computer as follows:

- 1. In DashBoardTM, open the card and select the **Presets** tab.
- 2. Adjacent to the **Download Presets** field, click **Save**.
- **3.** In DashBoard[™], the screen shown below now appears. Navigate to the location where you want to save the Presets file (in this example, "My Documents/Cobalt Presets"). Click **Save** and confirm. All of the current presets for the card are now saved on your computer.

Save <u>I</u> n: [My Documents	V 🙋 🛅 📃	8= 88	
📁 Cobalt P	resets			
File Name:	CDI-9061 Presets.bin			

Updating Your Card's Firmware (DashBoard[™] V3.0 or later)

This Page is for DashBoard™ version

3.0 or later

Go to Page 4 for earlier DashBoard[™] versions Upload the update firmware you received from Cobalt[®] to a card as follows:

- **Note:** Make certain the card is not carrying an on-air signal while performing this procedure. The card will automatically go off-line while the software uploads to the card.
- 1. In DashBoardTM, open the card receiving the update firmware.
- 2. Click on the Upload button at the bottom of the DashBoardTM screen.
- **3.** The screen shown below now appears. Click **Browse** and navigate to where you saved the file (in this example, "My Documents\Cobalt Updates"). Select the desired update file (in this example, "9061_rev_2955_firmware") and click **Open**.

elect File Upload		N ook in	c 🌔 Cobalt Und	ates	v 0	at 🗠 🖽	
Elle: Browse	\triangleright	My Recent Documents Desktop	9061_rev_2	955_frmware			
< <u>Back</u> <u>Dext</u> > Einish Cancel		My Documents	File game:	9061_rev_2955_firmv	vare	•	

4. As shown below, the update file and its description is now displayed (left) (**disregard any product "not found" messages**). Click **Next**. The target card (in this example, "Slot 6: CDI-9061 RCVR 1B") is now selected to receive the upload.

Other same-type cards will also be shown (in this example, "Slot 1: CDI-9061 RCVR 1A"). If other same-type cards are also to receive this upload, put a check mark by these cards.

elect File Upi	load			Select Destination	
Please select the	e file that contains the soft	ware to upload.		Please select the devices to which the software C:\Documents and Settings\My Documents\Cob	e will be uploaded. oalt Updates\9061_rev_2955_firmware.bin
Eile:	C:\Documents and Settin	ngs\My Documents\Cobalt Updates\9061_rev_2955_firmwa	are.bin Browse	Select All	Selec
Warnings:	CDI-9061 not fou File Summary: File Name: File Type: Load Size: Creation Date:	nd in upload product list. 9061_ rev_2955_firmware.bin Main board software 4194304 (bytes) Wed Mar 10 08:19:25 CST 2010		Device ■ ISF Frame A SNMP ● Slot 1: CDI-9061 RCVR 1A ● Slot 6: CDI-9061 RCVR 1B	Version Error/Warning 4.0.2845 A CDI-9061 not found in upload product list 4.0.2845 A CDI-9061 not found in upload product list
	CRC:	bcae	<u>v</u>	Hide invalid destinations	

5. Click **Finish**. When the upload is complete, click **OK**. The Upload function now closes and the card(s) automatically reboots. The card is now ready for use with the new firmware.

Updating Your Card's Firmware (DashBoard[™] V2.0)

This Page is for DashBoard™ version

> 2.3 or earlier

Go to Page 3 for later DashBoard™ versions Upload the update firmware you received from Cobalt[®] to a card as follows:

- **Note:** Make certain the card is not carrying an on-air signal while performing this procedure. The card will automatically go off-line while the software uploads to the card.
- 1. In DashBoardTM, open the card receiving the update firmware.
- 2. Click on the Upload button at the bottom of the DashBoardTM screen.
- **3.** The screen shown below now appears. Navigate to where you saved the file (in this example, "Cobalt Updates") and select the desired update file (in this example, "9061_rev_2955_firmware.bin").

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🤳 9061_rev	_2955_firmware.bin				
File Name:	0061 ray 2065 firmwara bin				
File <u>N</u> ame:	9061_rev_2955_firmware.bin				
File <u>N</u> ame: Files of <u>T</u> ype:	9061_rev_2955_firmware.bin Firmware (*.bin)		~		

- 4. Click on the **Open** button and confirm the upload.
- 5. Wait while the file is sent to the card (as shown below).

Uploading file to CDI-9061 RCVR21		
Sending file:		
Total size: 4194304 bytes		
Bytes sent: 1113088		
27%		
sending file		
Cancel		

6. When the upload is complete, the Upload function closes and the card automatically reboots, and now displays the uploaded Software Version Number in its Card Info pane. The card is now ready for use with the new firmware.

What To Do If Your Card Locks Up With a Firmware Update (Compass[®] cards)

In the unlikely event that your card locks up in the boot state after receiving updated firmware, perform the following steps **in the order listed** as necessary until normal operation is restored.

- Power-Cycle The Card Unseat the card from the frame slot connection, wait a few seconds, and then re-insert the card. If (following about 30 seconds) the card does not complete booting, proceed to the next step.
- □ Erase The Presets Erase the presets stored in the card as described below, then allow the card to boot. If (following about 30 seconds) the card does not complete booting, proceed to the next step.



Revert To Your Card's Previous Firmware Version – If the previous steps do not restore proper operation, you can revert the card to its previous firmware.
When your card receives updated firmware, it always retains the previous firmware in a spare memory location on the card. Revert to the previous firmware as described below.



□ Contact Cobalt Digital Inc. Customer Support – If your card still does not properly operate after the above, please contact our Customer Support personnel for any assistance at support@cobaltdigital.com or by calling (217) 344-1243.

What To Do If Your Card Locks Up (Fusion3G[®] cards)

In very rare cases of the card locking up during a firmware upgrade (such as power interruption during a card firmware upgrade), the card can be set to boot from its non-volatile file ("safe image") held in card ROM.

When the safe image is loaded, the card is now rebooted/unlocked and can receive a target firmware upgrade .bin file (which, if not stored on your computer can be downloaded from **Support>Firmware Download** link at www.cobaltdigital.com).

Perform the following steps in the order listed as necessary until normal operation is restored.



Uploading Your Presets (DashBoard[™] V3.0 or later)

This Page is for DashBoard™ version

3.0 or later

Go to Page 7 for earlier DashBoard™ versions

- **Note:** The procedure below is required **only** if you had to erase your presets in the course of fixing a locked-up card. In normal operation, card presets are preserved when a firmware update is performed.
- 1. In DashBoardTM, open the card and select the **Presets** tab.
- 2. Click on the Upload button at the bottom of the DashBoardTM screen.
- **3.** The screen shown below now appears. Click **Browse** and navigate to where you saved the file (in this example, "My Documents\Card Presets"), select the desired presets file (in this example, "6T9061_Presets") and click **Open**.

🛿 Upload Software Wizard 👘 🔲 🔀		Upen	
elect File Upload		Look in: 🔁 Card Presets 🛛 💙 🔇 🦻 📂 🛄	•
Please select the file that contains the software to upload.		OT93231_Presets	
		Mu Recent 115 619061 Presets	
Eile: Browse		Documents	
		Desktop	
3		My Documents	
		My Computer	
< <u>Back</u> <u>N</u> ext > Einish Cancel			
	1	File name: 6T9061_Presets	<u>Open</u>
		My Network Files of type: Firmware (*.bin)	Cance

4. As shown below, the file and its description is now displayed (left) (**disregard any product "not found" messages**). Click **Next**. The target card (in this example, "Slot 6: CDI-9061 RCVR 1B") is now selected to receive the upload.

Other same-type cards will also be shown (in this example, "Slot 1: CDI-9061 RCVR 1A"). For the purposes here, other same-type cards would not also be receiving a presets download; **leave the other same-type cards unchecked**.

Select File Upload			Select Destination	
Please select the file that contains the sof	tware to upload.		Please select the devices to which the software will C:\Documents and Settings\My Documents\Card P	ill be uploaded. resets\6T9061_Presets
Eile: C:\Documents and Sett	ings\My Documents\Card Presets\6T9061_Presets.bin	Browse	Select All	Select
Warnings: File Summary: File Name: File Type: Load Size: Creation Date:	6T9061_Presets.bin Unknovm 14704 (bytes) Thu Jun 25 12:47:15 CDT 2009		Device Software Test Frame A SNMP Slot 1: CDI-9061 RCVR 1A Slot 6: CDI-9061 RCVR 1B	Version Error/Warning 4.0.2845 A. CDI-9061 not found in upload product 4.0.2845 A. CDI-9061 not found in upload product
CRC:	c8d		Hide invalid destinations	

5. Click **Finish**. When the upload is complete, click **OK**. The Upload function now closes and the card automatically reboots. Your saved presets are now in the card and can be re-applied as desired.

Uploading Your Presets (DashBoard[™] V2.0)

This Page is for DashBoard™ version

> 2.3 or earlier

Go to Page 6 for later DashBoard™ versions

- **Note:** The procedure below is required **only** if you had to erase your presets in the course of fixing a locked-up card. In normal operation, card presets are preserved when a firmware update is performed.
- 1. In DashBoardTM, open the card and select the **Presets** tab.
- Click Upload. The screen shown below appears. Navigate to where you saved the Presets file (in this example "Cobalt Presets"). Select the desired file (in this example, "CDI-9061 Presets.bin") and click Open.

a Open				X	
Look <u>i</u> n: 📁	Cobalt Presets	~	횓 📩 📮	8= 88	
	🚽 CDI-9061 Pres	ets.bin			
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File <u>N</u> ame:	CDI-9061 Presets.bi	n			
File <u>N</u> ame: Files of <u>T</u> ype:	CDI-9061 Presets.bi BIN Files (*.bin)	n		~	
File <u>N</u> ame: Files of <u>T</u> ype:	CDI-9061 Presets.bi BIN Files (*.bin)	n		×	

3. The screen shown below appears on DashBoardTM. Click on **Continue** to proceed with the upload. When the upload is complete, the card reboots. Your saved presets are now in the card and can be re-applied as desired.

nfirm upload to	CDI-9061 RCVR21
File Name:	CDI-9061 Presets.bin
File Type:	Unknown
Load Size:	9720
Creation Date:	Tue Nov 25 15:05:09 CST 2008
CRC:	4839
Co	ntinue Cancel