App. Note Code: 1D-AC



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CR300-Series-WiFi Daughter Board OS Update Procedure

This procedure updates the CR300-series-WiFi daughter board OS.

- 1. Download the executable, CR3XX_Wifi_OS_Update_X.X.X.exe, from our website at *www.campbellsci.com/downloads*.
- 2. Run the executable file.
- 3. Apply power to the CR300 series. (A USB connection supplies 5 V power, but is not sufficient to power the WiFi module which must be powered to complete this procedure.)
- 4. If not using WiFi, connect your communication cable to the CR300 series.
- 5. Open Device Configuration Utility (DevConfig).
- 6. Under Device Type, select CR300 Series.
- 7. Select the correct **Communication Port**. (If using WiFi, select the **Use IP Connection** checkbox and browse to or enter the IP address.)
- 8. Click Connect.



- 9. As a precaution, backup the CR300-series data logger using the wizard accessed from the **Backup** | **Back Up Datalogger...** command (see *www.campbellsci.com/blog/update-datalogger-operating-system*).
- Verify that you are running CR300 series version 06.01 or later operating system. You can see this information in the **Deployment | Datalogger** tab in *DevConfig*. If you are running an earlier operating system, update the operating system (see www.campbellsci.com/blog/update-dataloggeroperating-system).

Deployment Logger Control Data Monitor Data Collection F	File Control Send OS Settings Editor Terminal
Datalogger Com Ports Settings Ethernet PPP Wi-Fi	Network Services TLS Advanced
Serial Number: 1	PakBus Security
OS Version: CR310-WIFI.Std.06.01	Security Code 1: 0
Station Name: 1	Security Code 2: 0
PakBus Address: 1	Security Code 3: 0
	PakBus Encryption Key:
	PakBus Encryption Key Confirm:
	PakBus/TCP Password:
	Confirm PakBus/TCP Password:

- 11. Click the DevConfig File Control tab.
- 12. Click the **CPU:** drive.

Deployment Logger Control	Data Monitor Data Collection File Control Send OS Settings Editor Terminal
Send Format	Refresh Retrieve
Format	
Run Options Delete	Stop
Drive Free	File Name 🔺 Run Options Size Last Modified
CPU: 83.82 MB	

- 13. Click Send.
- 14. The **Select the files to send** dialog will appear. Navigate to the C:\Campbellsci\Lib\OperatingSystems directory.
- 15. Set the Files of type: drop-down list to Operating System Files (*.obj).
- 16. Select CR3XX.WiFi.X.X.Aobj from the file list.

17. Click Open.

Deployment Logger Cont	ol Data Monitor Data Collection File Control Send C	OS Settings Editor Ter	rminal
Send For	mat Refresh Retrieve		
Run Options De	ete Stop		
Drive Free CPU: 83.82 MB	File Name 🔺 Run Options Size Last Modif	fied	
O Selected the	files to send		×
Look in:	OperatingSystems V	G 🤌 📂 🖽 -	
Quick access	Name	Date modified 6/2/2016 10:19 AM 11/18/2017 8:29 AM	Type 3D Object 3D Object
Desktop			
Libraries			
This PC			
S			
Network	< File name: CR3XX.WiFi.1.6.9.1.obj	~	Open
Files of type: Operating System Files (*.obj) Cancel Running Program: " CR300 Program Files (*.or300) it Run on Power Up Program: " Program Files (*.obj) it Program State: no program running Operating System Files (*.obj) it			
No Program			~

18. The new WiFi operating system is sent to the data logger.

	\times
Sending "C:\Campbellsci\ib\OperatingSystems\CR3XX.WiFi.1.6.9.1.obj" to CPU:	^
	\sim
Cancel	

- 19. Once the progress bar reaches 50%, the **WiFi** LED on the data logger will start flashing quickly for a period of time; then the data logger will reboot. The update generally takes five to six minutes to complete.
- 20. Click **OK** once the progress bar reaches 100%.

21. Go to the *DevConfig* Settings Editor | WiFi tab and check that the Wi-Fi Firmware Version shows the new version. You may have to press the F5 key to refresh the displayed information.

							_		
atalogger	PPP	ComPorts Settings	Network Services	Advanced	User Settings	Wi-Fi	Ethernet	TLS	
Wi-Fi Firmv 1.6.9.1 Wi-Fi Statu Hosting ne Clients cou Wi-Fi is th MAC: 00d IP: 192.16 mask: 255 gw: 192.1 IPv6 local dms: 208.0	vare Vers is etwork "C nnected: e default 02c15000 58.67.1 ; 255.255 (58.67.1 ; FE80::22 67.222.22	R300_1" 0 network 0 00:2CFF:FE15:1 22						^	^

Your data logger is now updated and running the latest WiFi daughter board operating system.



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