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Application Notes on the upgrading the C8000 from v2.00 to v2.10

September 24, 2014

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ABSTRACT

The C8000 is an advanced programmable battery testing system which offers four independent channels, tests batteries ranging from 50 mAh to 1000 Ah, provides manual and automated service and can work in standalone or with PC software. With the release of V2.10, new and improved features have been added. To insure the proper calibration and hardware configuration, the following steps should be done to upgrade from V2.00 to v2.10.

Features of V2.10 includes an enhanced user interface, advanced customized programming options, enhanced SMBus capabilities, Dual Power Port Cable support, optional Cadex Load Capture Unit support. Depending on hardware revision, units may need modifications done for external load and thermal chamber support. See http://www.cadex.com/prod_test/overview.asp for product overview.

Please read the entire process before attempting to upgrade. If upgrading from firmware version V1.00, please contact Cadex (service@cadex.com).

Disclaimer:

Upgrading the firmware on the C8000 is a major modification and beyond the scope of the warranty coverage. If not done properly, it will result in corrupted firmware and a non-function unit. By continuing with the upgrade, the customer acknowledges the risks and bears the responsibility and cost of repair.

Prerequisites:

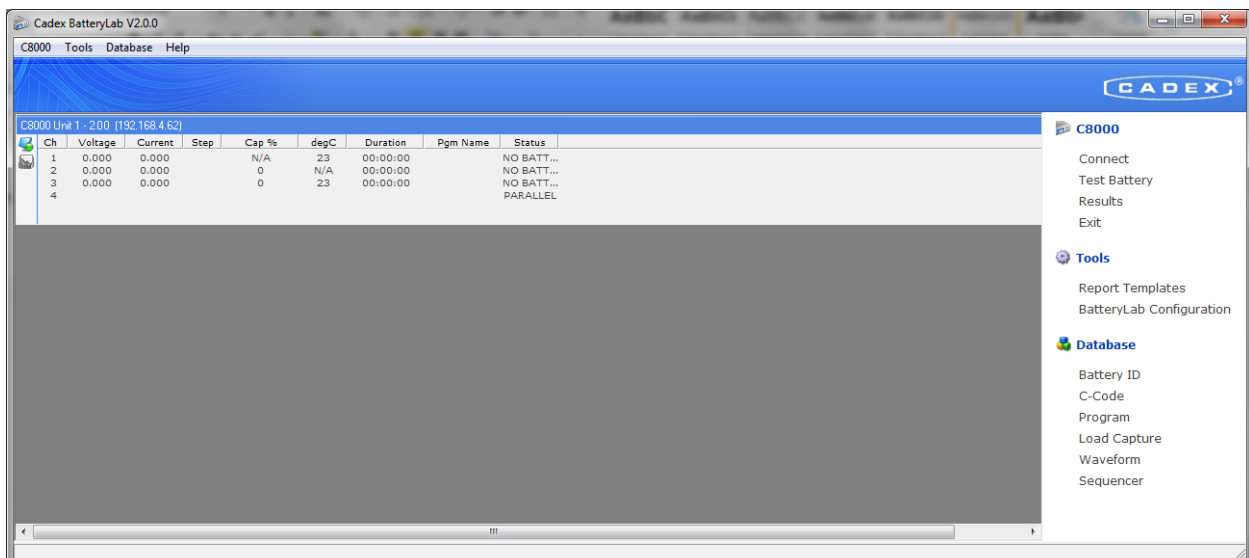
- This document assumes that the user is familiar with the operation of the Cadex C8000 and/or BatteryLab™ software and has basic electronics and wiring setups skills.
- C8000 (Firmware Version 2.10), BatteryLab (Build 2.0.0)

Upgrade Requirements:

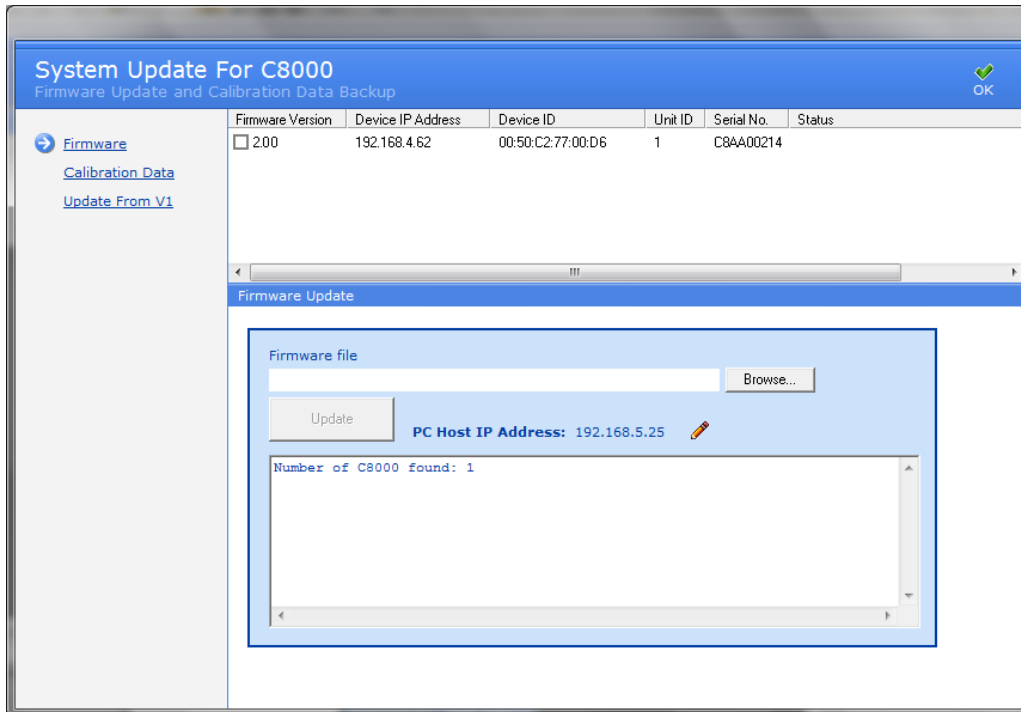
- V2.10 Firmware and Software Upgrade Files.

A. Backup Current Settings

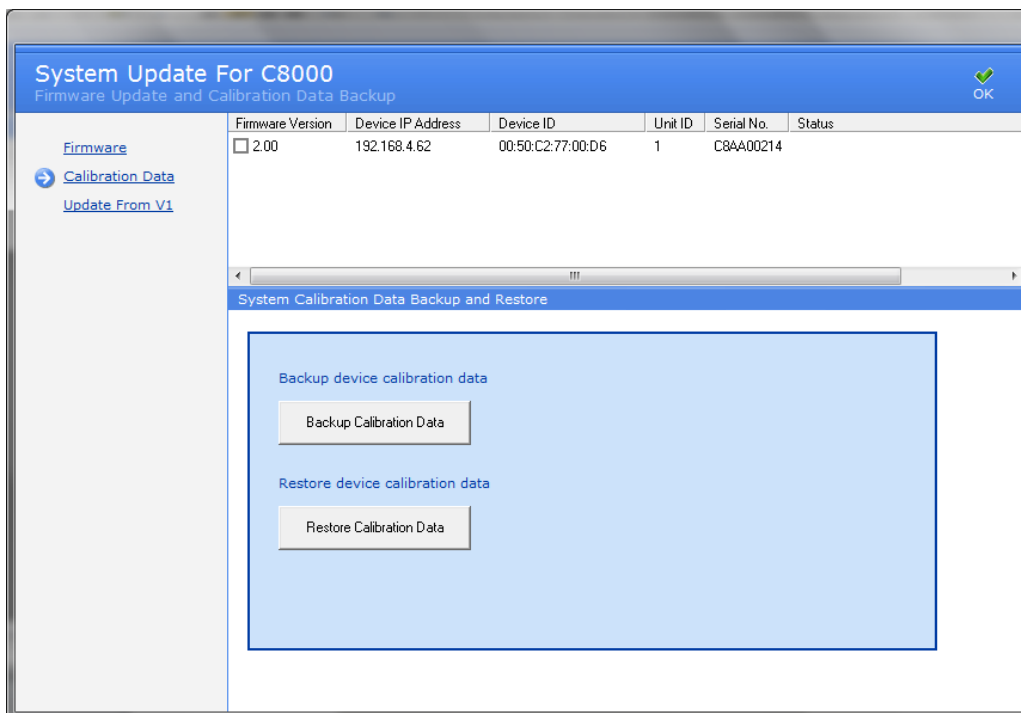
Start up BatteryLab and connect to the C8000 analyzer/analyzers. Record the analyzers I/P address. From the **Main** screen under **Tools**, select **System Update**. The **System Update** screen should appear.



Click on **Calibration Data**.



Check off the units connected and click **Backup Calibration Data**.

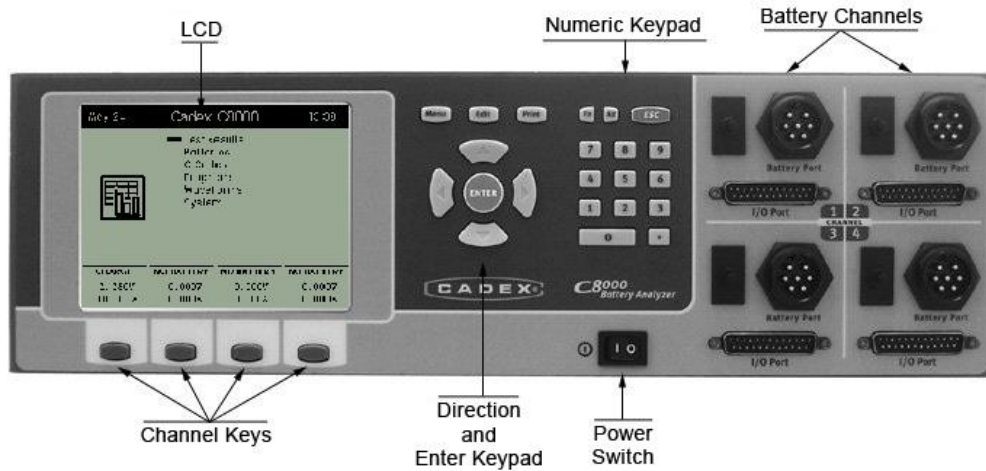


Once the calibration data has been saved, close down Battery Lab. Open up Windows Explorer and navigate to the Battery Lab directory (ie, C:\Program Files\Batlab) and make a copy of the DB folder. Store this folder in another location/drive/computer.

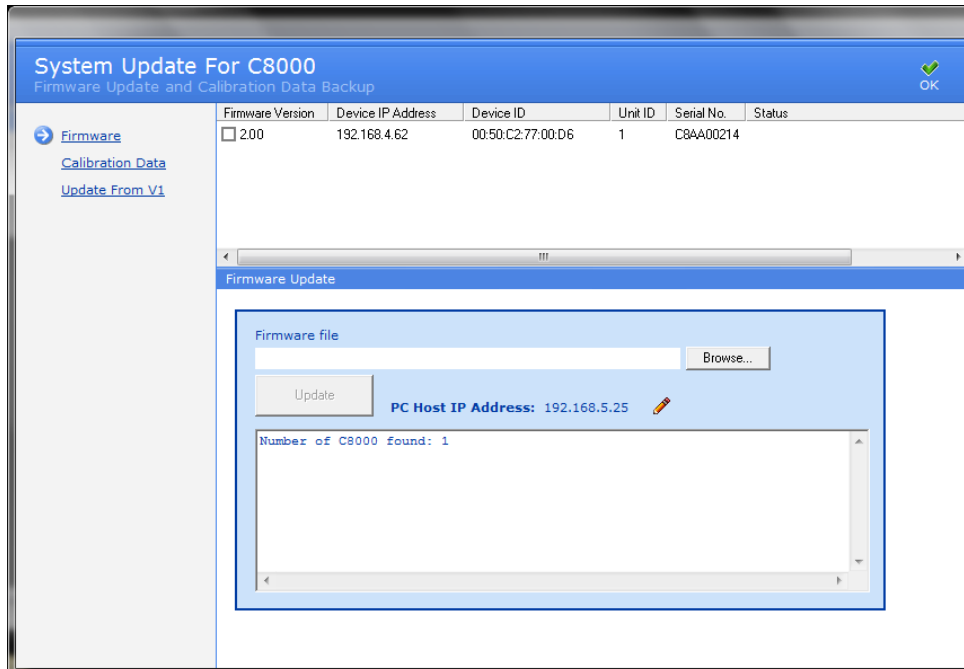
B. Installing New Software/Firmware

Save the install files needed, to your desktop.
SWC8AI210.c8u

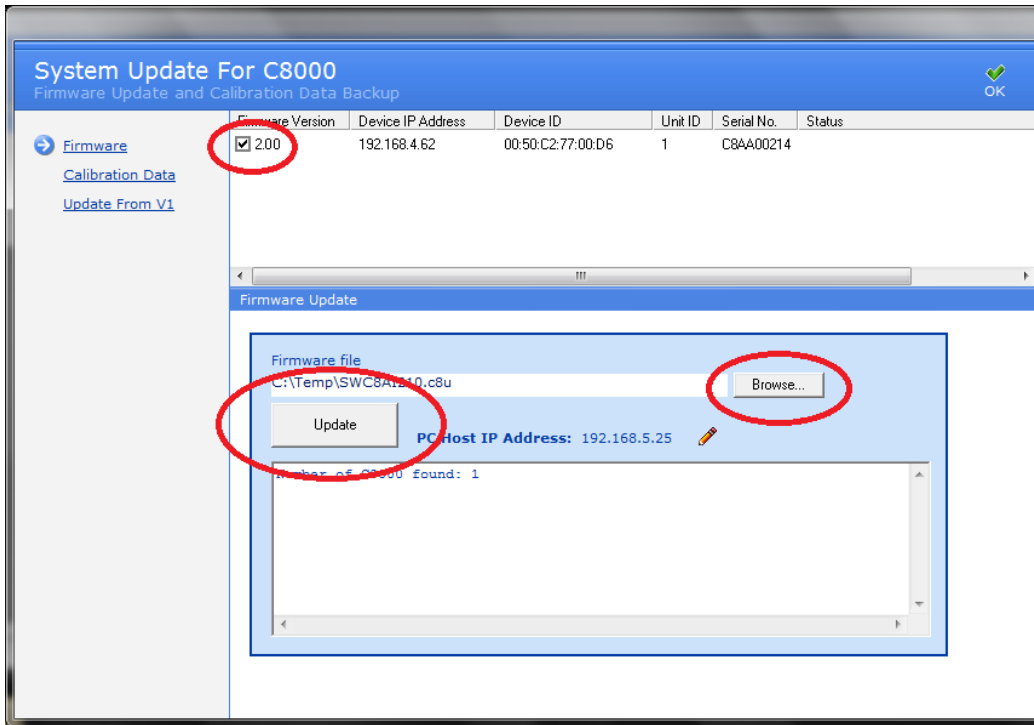
On the C8000, power cycle the main unit (turn off the power and leave in the powered off state of 5 seconds, then power the unit back on).



From the **Main** screen under **Tools**, select **System Update**. The **System Update** screen should appear.
Click on **Firmware**.



The software will search for any any C8000s that are connected to your network and list them out. Select the unit you want to upgrade, select the firmware file (SWC8AI210.c8u) and click on **Update**.



The software will then make a backup of your current programs on the unit and ask the user to disconnect any batteries from the system. Click OK and the software will start the Update process. During the upgrade, the unit will reset itself several times during the process. Do not power off the C8000 or BatteryLab. The update procedure may take up to 30 minutes.

Once upgrades are done, on the C8000 unit, reset to factory defaults to initiate V2.10 (System -> Factory Defaults [OK]).

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