

Updating Qt PRO 300/600 Control Module Software (Version 6.5.1)

The following sequence uses the example of updating to Version 6.5.0, but the process applies to any code version. Download the zip file that contains the update folder and its files and “unzip” the zip file. The following files are found in the update folder:

[Qt 300-600 Update Instructions.pdf](#) (this document)

[Updater.ex_](#) (the utility that performs the update)


[Version6.5.1.cry](#) (The new software image ends in “.cry”. This file should be extracted from the zip)

[6.5.0 ReadMe](#) (Important ReadMe that assesses the current system to make sure an update can be performed)

To update your QT Control Module software, first capture the current configuration

1. Power down your both your PC and the Qt.
2. Connect your PC’s Ethernet port directly to the QT’s Ethernet port. NOTE: you may need to turn off the WIFI interface of the PC.
3. Power up the Qt, then power up your PC. Bring up a browser window on your PC. The Qt will get an IP address if in DHCP mode or share the static IP address so that the two machines can communicate.
4. Log into YOUR Qt control module¹ via the browser. Enter the Qt’s IP address in your browsers address bar and hit enter. Fill in your login and password (default is login: admin and password: secret).
5. Click on the **Printout** tab to bring-up a page that shows the unit’s current operational settings.

¹ If you are not familiar with connecting to and logging into a control module, refer to the Operations Guide that came with your unit.

 cambridge SOUND MANAGEMENT		Qt Quiet Technology™ System Monitoring and Control		<div> <div>Operations</div> <div>Administration</div> <div>Help</div> <div>Printout</div> </div>					
Service		Zone Level Controls		Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6
Unit Name		Day Volume		0	0	0	0	0	0
Location		Night Volume		0	0	0	0	0	0
Serviced By	Cambridge Sound Management	Input A		15	15	15	15	15	15
Phone No.	617-349-3779	Input B		15	15	15	15	15	15
Zone Names		Begin Ramp to Day (AM)		8:00	8:00	8:00	8:00	8:00	8:00
Zone 1	Zone 1	Begin Ramp to Night (PM)		5:00	5:00	5:00	5:00	5:00	5:00
Zone 2	Zone 2	Ramp Interval (minutes)		60	60	60	60	60	60
Zone 3	Zone 3	Saturday Schedule		D/N	D/N	D/N	D/N	D/N	D/N
Zone 4	Zone 4	Sunday Schedule		D/N	D/N	D/N	D/N	D/N	D/N
Zone 5	Zone 5	Masking Equalizers							
Zone 6	Zone 6	200		0	0	0	0	0	0
Networking and Security		250		0	0	0	0	0	0
Panel Lock	Unlocked	315		0	0	0	0	0	0
MAC Address	0050C2000021	400		0	0	0	0	0	0
DHCP Enabled	yes	500		0	0	0	0	0	0
IP Address	169.254.1.1	630		0	0	0	0	0	0
Gateway	169.254.1.1	800		0	0	0	0	0	0
Netmask	255.255.0.0	1000		0	0	0	0	0	0
Primary DNS	169.254.1.1	1250		0	0	0	0	0	0
Secondary DNS	0.0.0.0	1600		0	0	0	0	0	0
Hostname	QT21	2000		0	0	0	0	0	0
Username	admin	2500		0	0	0	0	0	0
Password	secret	3150		0	0	0	0	0	0
Notification of Errors		4000		0	0	0	0	0	0
Email Address		5000		0	0	0	0	0	0
Server Name		Input A Equalizers							
Port Number	25	250		0	0	0	0	0	0
Username		500		0	0	0	0	0	0
Password		1000		0	0	0	0	0	0
Time Zone		2000		0	0	0	0	0	0
		4000		0	0	0	0	0	0
		8000		0	0	0	0	0	0

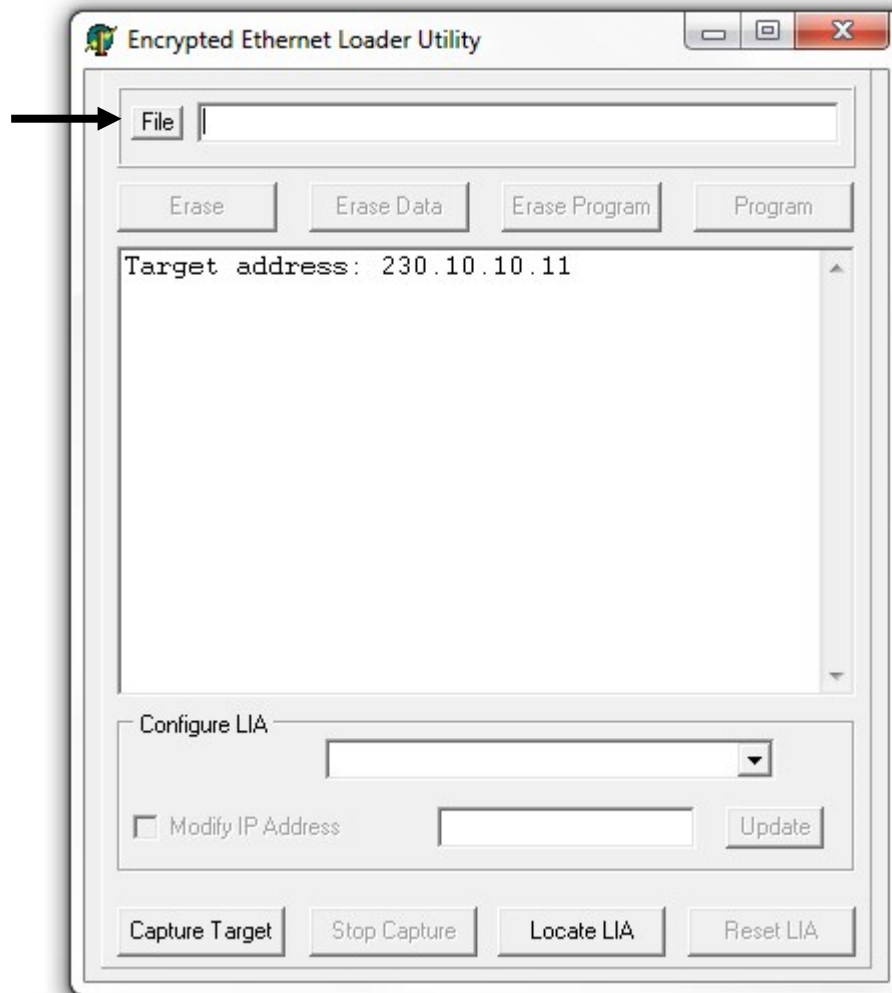
Note: Qt 600 printout screen shown above, but this is the same for the Qt 300 with only 3 zones

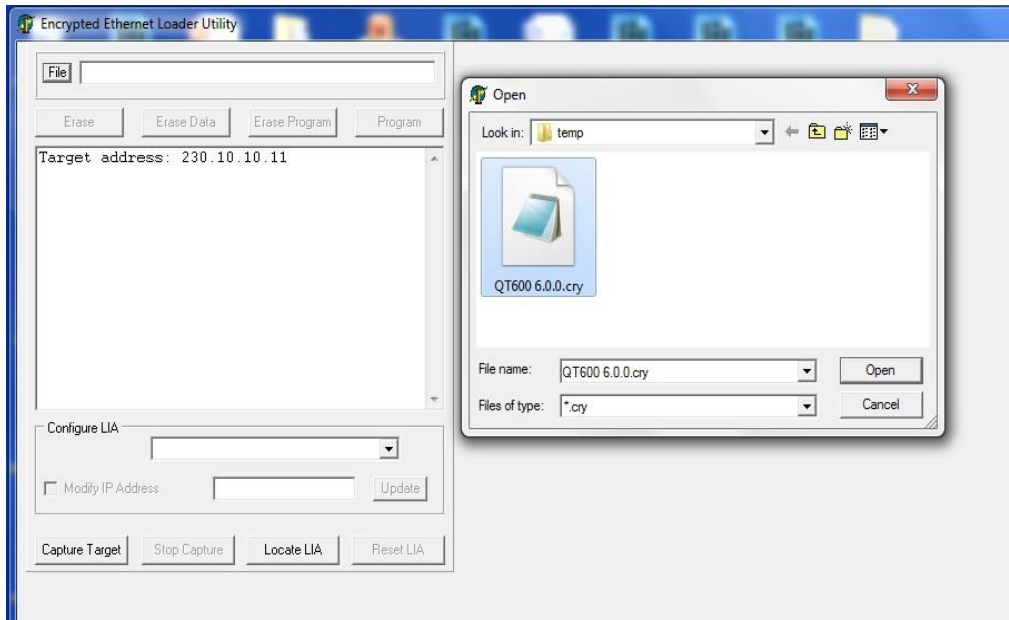
- Print this page to obtain a paper record of the unit's operational parameters. Alternately, create a PDF or screenshot. In many browsers this can be accomplished by right clicking in the window and selecting the "print" function. This record will allow you to reset the same parameters after the upgrade.
- You can now close the System Monitor window

The following steps perform the programming

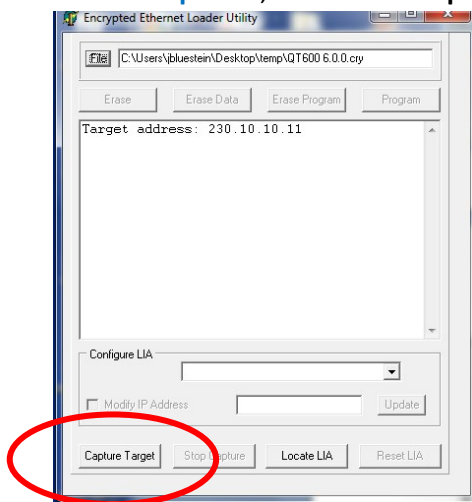
- Rename "**Updater.ex_**" to "**Updater.exe**" if needed.
- Double click **Updater.exe** on your PC to open the **Updater**.
You may be asked to validate the program. Be sure you click 'run'.

10. Disconnect power to the Qt 600 at this time.
11. In the **Updater** click on the **File** button and browse to and select **Ver6.5.0.cry** (6.0.0 is shown in the pictures)



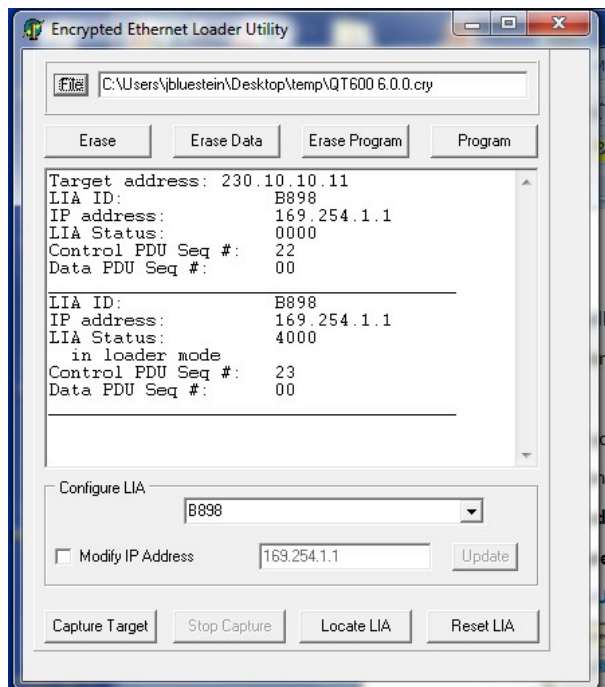


12. Still in the **Updater**, click on the **Capture Target** Button and immediately go to the next step.



13. Connect power to the Qt 600.

14. You will see text similar to the following displayed in the **Updater's** dialogue window (addresses may be different, etc.):

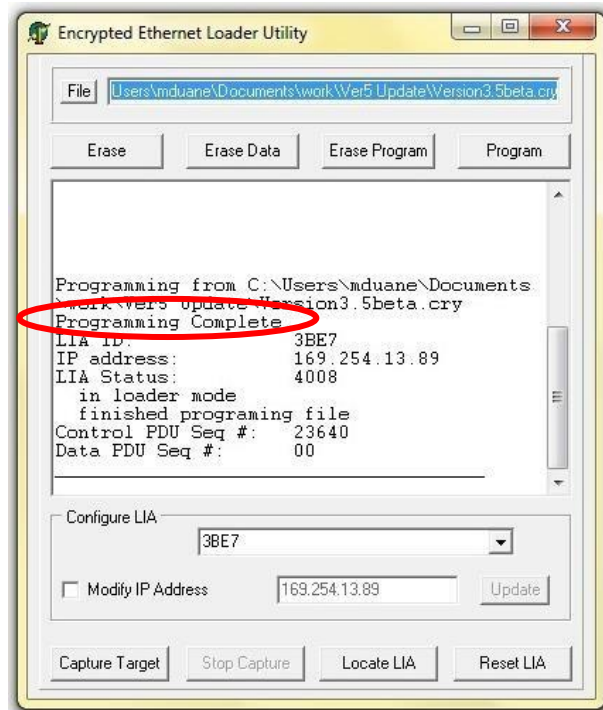
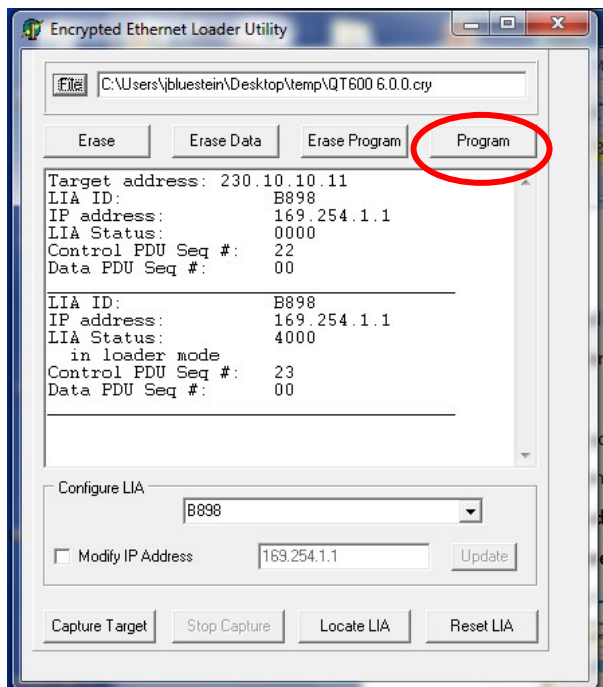


Once you see this text in the updater, move to the next step. The front screen of the control module will continue to say booting or may be blank.

If you don't see the capture, make sure the WIFI port is turned off on the PC. Start over with the capture and powering the Qt 600 off and on.

15. In the **Updater** click on the **Program** button (Be patient for response, it may take a minute) and observe that the programming completes without error². If the programming completes without error, you will see the following displayed in the **Updater's** dialogue window (addresses may be different):

² If the update encounters a PDU out of sequence error, wait for the programming to complete and then push the Program button a second time. If the problem persists, start over with a "capture target" and power cycle.



IF you see an error or get a socket disconnect, simply start over. As long as the boot code is still loaded the capture will work. Turn off the Qt 600, select capture and retry the program step.

16. After programming is complete, disconnect power to the Qt 600 as the next step is a hard reset. You can now close the [Updater](#).

17. This step you must do two actions simultaneously. Press and hold down the “+” button on the front panel AND at the same time apply power. Release the front panel button when you see the “Qt600 Main CPU Booting” screen appear on the LCD. This step resets the data structures for the new software.
18. Check that Version 6.5.0 and Status: OK appear on the control module’s LCD.

Ready to reset the configuration

19. Once the LCD returns to the version/status screen, wait 60 seconds and attempt to refresh the Qt PRO System Monitoring and Control software from the web browser. If the new software does not show right away, wait another 60 seconds and check the IP address.

The screenshot displays the Cambridge Sound Management web interface. At the top, the Cambridge Sound Management logo and 'Quiet Technology System Monitoring and Control' are visible. Navigation tabs include 'Operations', 'Administration', 'Help', and 'Printout'. The main content area is divided into six panels:

- Service:** Fields for Unit Name, Location, Serviced By (Cambridge Sound Management), and Phone No. (617-349-3779). A 'REBOOT' button is present.
- Zone Names:** Fields for Zone 1 through Zone 6, each containing the text 'Zone X'.
- Date and Time:** Displays 'Jan 1, 2000 : 12:21 AM RTC'. Includes dropdowns for Date (Sunday), Jan., 1, 2010, and Time (00:21). An NTP Server field is set to 'pool.ntp.org'.
- Networking and Security:** Shows status for Panel Lock (Unlocked), Use DHCP? (No/Yes), MAC Address (0050C2000021), IP Address (169.254.1.1), Gateway (169.254.1.1), Netmask (255.255.0.0), Primary DNS (169.254.1.1), Secondary DNS (0.0.0.0), Hostname (QT21), Username (admin), and Password (masked).
- Notification of Errors:** Fields for Email Address, Server Name, Port Number (25), Username, and Password.
- Time Zone:** Includes a dropdown for GMT-05 ... Eastern Time, and options for Daylight Savings Time Begins (Second Sunday in March) and Daylight Savings Time Ends (First Sunday in November).

Each panel has a 'Submit' button. A 'Warning' button is also present in the Date and Time panel. The footer indicates '© 2013 Cambridge Sound Management, Version 5.0.0'.

20. Re-enter the operational parameters listed on the printout (see step 3 above), as necessary.