

MDK-C5 / MDK-C6 Firmware Update Procedure

There are several options for performing keypad firmware updates to the MDK-C5 and MDK-C6 depending on which controller system you are using.

Updates via the MCA-66 and 88 controllers

- Web Config Updates from the Russound server (Web Update - **Easiest**)
 - Internet access required
- Web Config Updates via local network (File Update)
 - Internet access not required for performing the update as long as the file was downloaded *in advance* and saved to a location on the local network

Updates via the MCA-C3 and C5 controllers

- Online Updates from the Russound server via the web interface (Easiest)
 - Internet access required
- Device Update utility within SCS-C5 via serial port (RS-232)
 - Ethernet must be disconnected
 - RNET Links must be disconnected
 - Other keypads must be disconnected
 - Only one keypad can be updated at a time using Zone #1 on a controller set to Controller ID #1

Web Config Update Procedure (Web Update) via MCA-66 / MCA-88

1. Ensure that all keypads have been turned on (Zone On) at least once prior to performing the update. They do not need to remain on in order to perform the update process. The purpose of this step is to initialize the keypads. Each time the controller is power cycled, the keypads need to be turned on (Zone On) at least once before performing a firmware update.
2. From a computer/laptop/portable device on the same network as the controller, open a web browser
3. Enter the Host Name or IP Address of the controller in the browser URL field
4. From the controller's Web Config, navigate to *Administration->Keypad Update* ([Screen Shot A](#))
5. A list of keypads is displayed by Controller and Port numbers
6. Select the button labeled 'Web Update'
7. Select the check boxes for any keypads that you would like to update ([Screen Shot B](#))
8. When you see the prompt asking "Do you want to perform keypad updates?" select the 'OK' button
9. The screen will now show the status of each keypad being updated
 - a. You will see a status bar showing "Erasing" then "Programming" ([Screen Shot C](#))
10. Once the keypad updates are finished, the controller will re-boot automatically and you will see a prompt "Update Complete" ([Screen Shot D](#)).
11. Select the OK button
12. Once the system has re-booted you can power all the keypads back on (turn on the zone)
 - a. If you refresh the screen without powering the keypads on you will get a message saying "No Keypads Found"
13. At this point you can refresh the Keypad Update screen to view all keypad versions for verification that the updates completed successfully

Web Config Update Procedure (File Update) via MCA-66 / MCA-88

1. Ensure that all keypads have been turned on (Zone On) at least once prior to performing the update. They do not need to remain on in order to perform the update process. The purpose of this step is to initialize the keypads. Each time the controller is power cycled, the keypads need to be turned on (Zone On) at least once before performing a firmware update.
2. From a computer/laptop/portable device on the same network as the controller, open a web browser
3. Enter the Host Name or IP Address of the controller in the browser URL field
4. From the controller's Web Config, navigate to *Administration->Keypad Update* ([Screen Shot A](#))
5. A list of keypads is displayed by Controller and Port numbers
6. Select the button labeled 'File Update'
7. A file browser window will open so you can search for the firmware file that you had previously saved locally to a location on your network. The file type needed is a *.rff file, not a compressed ZIP file. Be sure to extract the *.rff file from the ZIP file in order to use it for the update.
8. Select the check boxes for any keypads that you would like to update ([Screen Shot B](#))
9. When you see the prompt asking "Do you want to perform keypad updates?" select the 'OK' button
10. The screen will now show the status of each keypad being updated
 - a. You will see a status bar showing "Erasing" then "Programming" ([Screen Shot C](#))
11. Once the keypad updates are finished, the controller will re-boot automatically and you will see a prompt "Update Complete" ([Screen Shot D](#)).
12. Select the OK button
13. Once the system has re-booted you can power all the keypads back on (turn on the zone)
 - a. If you refresh the screen without powering the keypads on you will get a message saying "No Keypads Found"
14. At this point you can refresh the Keypad Update screen to view all keypad versions for verification that the updates completed successfully

Online Update Procedure via MCA-C3 / MCA-C5

1. Ensure that all keypads to be updated have been powered on (the zone must be in the "on" state)
2. From a computer on the same network as the MCA-C3/C5 controller, open a web browser
3. In the URL field enter the host name MCAC3 or MCAC5 to access the product information screen
 - a. The IP Address of the controller can also be entered in the URL field instead of the host name if desired
4. Navigate to *Administration->Firmware Update*
5. A list of keypads is displayed by hovering over MDK-C5/C6 Product Name and will be listed by controller
6. To update all system keypads place a check mark in the 'Update' box in the row of the MDK-C5/C6 Product Name. To update individual keypads place a check mark in the boxes next to each keypad name in the pop-up list
7. Select "Update Firmware"
8. Enter the password "russound123"
9. Select "Submit"
10. ([Screen Shot E](#))

SCS-C5 Device Update Utility Procedure via MCA-C3 / MCA-C5

1. Turn all controllers off
2. Remove all keypads, RNET Link cables, and the Ethernet connection from the controller
3. Remove the FM Antenna connection if applicable
4. Reconnect the keypad to be updated to Zone Port #1 of Controller #1
5. Connect an RS-232 DB9 cable to the serial port on the rear panel of the controller
6. Power on the controller
7. Open Device Update within SCS-C5 by navigating to *Tools->Device Update*
8. Select the appropriate COM Port Connection being used by the RS-232 cable
9. Select the appropriate Product (i.e. MDK-C5)
10. Browse for the firmware image by selecting the “...” button next to the “Firmware” field
11. Select the “Update” button
12. Once the keypad update is complete, disconnect the keypad from the Zone Port #1
13. Connect the next keypad to be updated to Zone Port #1 and select the “Update” button
14. Continue until all keypads are updated
15. ([Screen Shot F](#))

SCREEN SHOTS

Screen Shot A


MCA-66

Status
Administration ▾
Configuration ▾
Support ▾

Networking
Controller Update
Keypad Update

Status

	Controller
Version	01.01.00
MAC	00:21:C7:04:00:06
DHCP	enabled
IP	192.168.1.7
Netmask	255.255.255.0
Gateway	192.168.1.1
DNS	192.168.1.1

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Screen Shot B


MCA-66

[Status](#)
[Administration ▾](#)
[Configuration ▾](#)
[Support ▾](#)

Keypad Update

Update	Controller	Port	Version	Status
MDK-C5/C6				
☐	1	2	07.02.00	Device is current
☒	1	3	06.00.02	7.02.00 available on web

[Cancel](#)
[Update ?](#)

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Screen Shot C


MCA-66

[Status](#)
[Administration ▾](#)
[Configuration ▾](#)
[Support ▾](#)

Keypad Update

Update	Controller	Port	Version	Status
MDK-C5/C6				
☐	1	2	07.02.00	Device is current
☒	1	3	06.00.02	Erasing

[Cancel ?](#)

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MCA-66

[Status](#)
[Administration ▾](#)
[Configuration ▾](#)
[Support ▾](#)

Keypad Update

Update	Controller	Port	Version	Status
MDK-C5/C6				
☐	1	2	07.02.00	Device is current
☒	1	3	06.00.02	Programming

[Cancel ?](#)

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The image is a screenshot of a web interface for the MCA-66 device. A white modal dialog box is centered on the screen, displaying the message "Update complete" in a large, bold font. Below this, in a smaller font, it says "Reboot is in progress, refresh this page in a few moments." and there is a blue "OK" button. The background is a blurred view of the web application. At the top, there's a navigation bar with "Status", "Administration", "Configuration", and "Support" links. Below that, a section titled "Keypad U" is visible. A table with columns for device status is partially visible, showing rows for "MDK-C5/C6" with checkboxes and status indicators like "Device is current" and "Updated". A green button labeled "Updated" is also visible in the background.

The screenshot shows the Russound MCA-C3 Controller web interface. The browser address bar displays the URL `192.168.1.30/pages/update.html`. The page features a navigation bar with links for **Status**, **Administration**, and **Support**. The main heading is **Firmware Update**.

Below the heading is a table with the following columns: **Product Name**, **Description**, **Available Version**, and **Update**.

Product Name	Description	Available Version	Update
MCA-C3	Multi-zone Controller	7.00.01	☐
MDK-C5	Multi-line Keypad	7.00.01	☐

A dropdown menu is open for **Controller 1**, showing a list of zones with their respective keypad versions:

- ☐ **Zone 1 - Keypad 1 (Kitchen)**
Version: 06.0.99
- ☐ **Zone 3 - Keypad 1 (Dining Room)**
Version: 06.0.99
- ☐ **Zone 4 - Keypad 1 (Garage)**
Version: 06.0.99
- ☐ **Zone 5 - Keypad 1 (Master Bed)**
Version: 06.0.99
- ☐ **Zone 6 - Keypad 1 (Basement)**
Version: 06.0.99

At the bottom of the interface, a message states: **Firmware update is available.** and **Click here to update for firmware update.**

Screen Shot F

