

Crestron Mobile™ G and Crestron Mobile Pro® G

Control Apps for Apple® iPad®

1 Introduction

The Crestron Mobile™ G and Crestron Mobile Pro® G apps provide a Crestron® touch screen user interface on the Apple® iPad® device. Fully integrated with Crestron programming software including SystemBuilder™, VT Pro-e®, and SIMPL Windows software, the Crestron apps are available for download from the iTunes® App Store™.

NOTE: It is recommended that an authorized Crestron installer download the Crestron app and configure the iPad for the customer according to the instructions in this guide. If, however, it is not practical that the download and configuration be performed for the customer, the installer should complete the form at www.crestron.com/crestronmobilesetup. The instructions in this guide will then be e-mailed to the customer to provide assistance with the installation and startup of the Crestron app from the iPad.

2 Download the Crestron App

NOTE: This section provides instructions to download the Crestron app from the App Store that is available on the iPad. The application is downloaded directly to the device. Alternatively, the application can be downloaded from the App Store using iTunes on a computer. The application is downloaded to the Applications section of the iTunes library and must then be synced to the iPad. For detailed information, refer to www.apple.com/support/itunes/store/apps.

Prerequisites:

- Cellular data network or Wi-Fi network that is connected to the Internet. (Refer to <http://support.apple.com/kb/HT2031> for Wi-Fi network information.)
- iTunes Store account. (Refer to <http://support.apple.com/kb/HT2731> for information about setting up an account.)

Download the Crestron App from the App Store on the iPad:

- On the home screen, tap the App Store icon (🍏). The App Store opens.
- Search for the desired Crestron app (Crestron Mobile G or Crestron Mobile Pro G):
 - Tap **Search**.
 - Tap the search field.
 - Enter the following: crestron mobile
 - Tap **Search**. The Crestron app is listed.
- Tap the Crestron app, and then follow the prompts to download it.

The Crestron app downloads to the iPad. The Crestron app icon (🍏 for Crestron Mobile G and 🍏 for Crestron Mobile Pro G) appears on the home screen and shows the status of the download and installation.

3 Upload the SIMPL Windows Program

Upload the SIMPL Windows program to the control system(s):

- Based on the firmware version of the control system, locate the appropriate sample SIMPL Windows program for the iPad at www.crestron.com/exampleprograms, and then download the program to your computer.
- Modify the program as required (refer to the SIMPL Windows online help for information).
- Using Crestron Toolbox™ software, do the following:
 - From the **Tools** menu, select **System Info**.
 - In the Address Book drop-down list, select the control system to which you want to connect.



- Click the **Quick function access** button (🔧), and then select **SIMPL Program**.



- Browse for the program, select the program, and then click **Open**.
- Click **Send**.
The "Confirmation" window opens, asking you if you want to overwrite the default IP table of the control system with the default IP table of the SIMPL Windows program.
- Click **Yes**.
- In the "SIMPL Program" window, click **Close**.

NOTE: Do not close Crestron Toolbox. You must use Crestron Toolbox in section 4.

4 Upload the VT Pro-e Project

Upload the VT Pro-e project to the control system(s):

- Locate the sample VT Pro-e project for the iPad at www.crestron.com/exampleprograms, and then download it to your computer.
- If desired, modify the project or create a new project, and then compile the project.

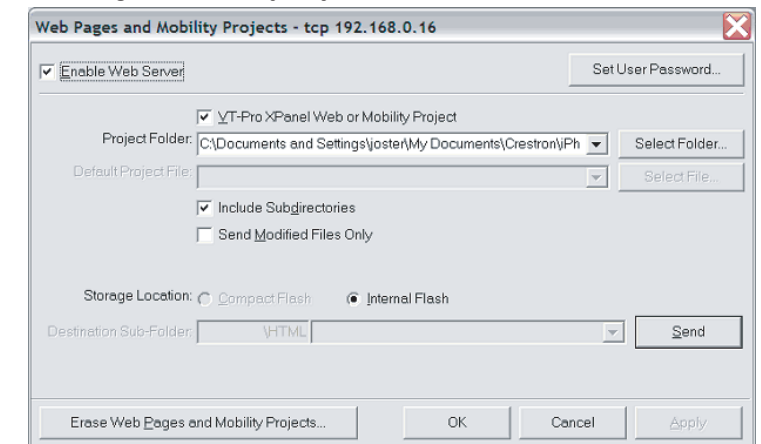
NOTE: In VT Pro-e, names of the panel types are **Crestron Mobile G** and **Crestron Mobile Pro G**.

NOTE: When used with the free Crestron Mobile G app, the VT Pro-e project is limited to about 10 pages; however, the limitation also depends on the complexity of the project (for example, number of buttons, graphics, and so on). If the project is too large, VT Pro-e displays an error message at compile time.

- Using Crestron Toolbox, do the following:

- From the **Functions** menu of the System Info tool, select **Web Pages and Mobility Projects**. The "Web Pages and Mobility Projects" window opens.

"Web Pages and Mobility Projects" Window



- Verify that **Enable Web Server** and **VT-Pro XPanel Web or Mobility Project** are selected.
- Browse for the project folder, select the folder, and then click **OK**.
- In the "Web Pages and Mobility Projects" window, click **Send** and then click **OK**.

NOTE: Do not close Crestron Toolbox. You must use Crestron Toolbox in section 5.

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5 Connect the iPad to the Crestron Control System(s)

To connect the iPad to the Crestron control system(s), perform the steps in section 5A or 5B:

- **Section 5A: Mobile Solution.** Use this solution if the customer requires iPad access within and also outside of the home network.
- **Section 5B: Local Solution.** Use this solution if the customer requires iPad access within the home network only (refer to page 3).

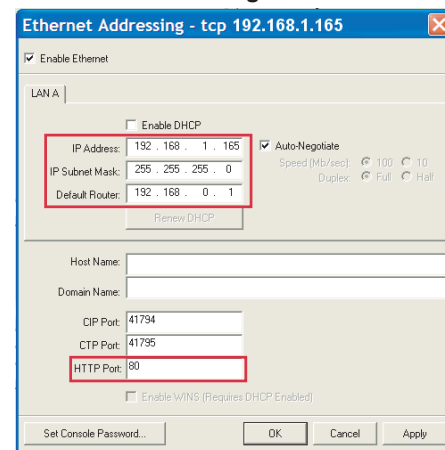
5A Mobile Solution

NOTE: To use the mobile solution, you must obtain a DNS host name from the customer's ISP or use a service such as mycrestron.com. For information about setting up a host name, refer to Answer ID 4863 in the Online Help section of the Crestron Web site (<http://support.crestron.com>).

- Using Crestron Toolbox, configure the Ethernet addressing parameters of the control system:
 - From the **Functions** menu of the System Info tool, select **Ethernet Addressing**.

The "Ethernet Addressing" window opens.

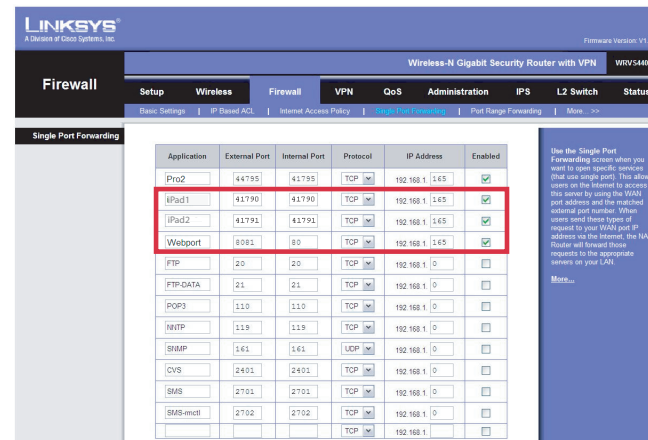
"Ethernet Addressing" Window



- Enter a static IP address and related network information.
 - Verify that the **HTTP Port:** field is set to the default value of 80.
 - Click **OK**.
- From the router configuration utility, configure the router:
 - Open up two TCP control ports to the control system using the port numbers assigned in the SIMPL Windows program. The default port numbers are 41790 and 41791 and are used for iPad1 and iPad2 as shown in the sample configuration screen at the top of the next column.

NOTE: If the firmware version of the control system is 4.003.xxxx or later, only one TCP control port is needed.

Sample Router Configuration Screen



NOTE: The router configuration screen shown above is a sample screen only. The screen that appears for the particular router you are configuring may differ from the sample screen shown.

- Since most ISPs block port 80, open up the HTTP port to the control system using a TCP port number other than 80. Use a number such as 8081 as used for the Webport (HTTP port) in the sample router configuration screen. Note that the port number you use maps to HTTP port number 80 on the control system in step 1c.
- Configure the iPad:
 - On the home screen, tap the Crestron app icon () for Crestron Mobile G or () for Crestron Mobile Pro G.

NOTE: The form at www.crestron.com/crestronmobilesetup should be completed by an authorized Crestron installer if the customer is to configure the iPad. The instructions in this guide will then be e-mailed to the customer to provide assistance with the installation and startup of the Crestron app from the iPad.

- On the home screen, tap the Crestron app icon () for Crestron Mobile G or () for Crestron Mobile Pro G.

The setup screen opens.
When configuring the iPad for the first time, the screen appears empty.

Setup Screen (Empty)



- Tap **Add System**.
The system configuration screen opens.

- Tap the **Friendly Name/Location:** field.
- Enter the name or location of the control system to be connected. The name/location is for reference only and is not a host name.
- Tap the **Host Name or IP Address:** field, and enter the host name or IP address of the control system.

NOTE: It is recommended that you enter a host name rather than an IP address as ISPs may change the IP address periodically.

- The **HTTP Port:** field is automatically populated with the default value of 80. To enter a different value, tap the **HTTP Port:** field and replace 80 using the TCP port number assigned when configuring the router in step 2b.
- The **Port A:** and **Port B:** fields are automatically populated with the default values of 41790 and 41791, respectively. If the first TCP/IP server port number in the SIMPL Windows program was changed from the default value of 41790 to another value, tap the **Port A:** field and replace 41790 with the assigned value. The next consecutive TCP/IP port number is automatically entered into the **Port B:** field.

NOTE: If the firmware version of the control system is 4.003.xxxx or later, the port numbers used for Port A and Port B must be the same; therefore, enter into the **Port B:** field the same value assigned in the **Port A:** field.

- Tap the **Passcode:** field, and enter the passcode assigned in the SIMPL Windows program. (The default passcode is 1234.)

- If using Secure Sockets Layer (SSL) encryption between the device and the control system, tap **Advanced** to configure the feature.

- Tap **OK** to enable the feature.
- If authentication is set on the control system side, enter a user name and password in the **User Name:** and **Password:** fields.
- Enable SSL on the control system. For details, refer to the control system's Operations Guide.

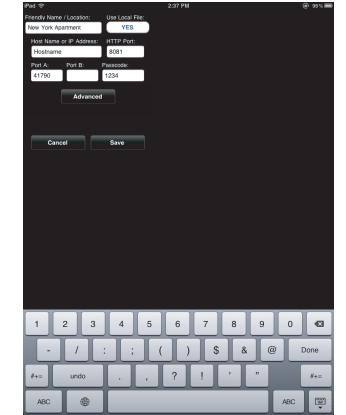
NOTE: If using SSL, the default value in the **HTTP Port:** field changes from 80 to 443.

- Tap **Save**. The setup screen opens, listing the control system that has been added.
- Select the name/location of the control system, and tap **Connect**. The **Loading Configuration** message appears in addition to a progress indicator.

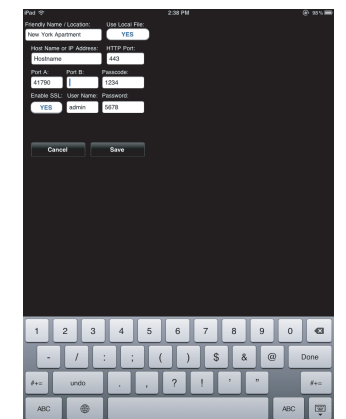
Once the iPad connects to the control system, the device is ready for use as a Crestron touch screen.

NOTE: When multiple control systems are set up, multiple systems are listed in the setup screen. When the Crestron app is restarted, the application automatically connects to the last control system that was connected (default setting). To allow the customer to select a system from among multiple systems when the Crestron app is restarted, refer to section 6.

Sample System Configuration



Sample System Configuration with SSL

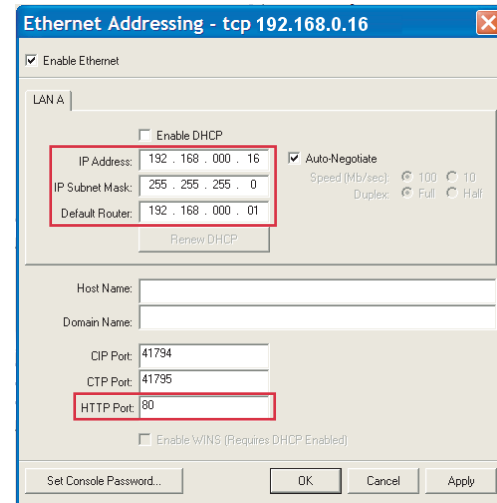


5B Local Solution

- Using Crestron Toolbox, configure the Ethernet addressing parameters of the control system:
 - From the **Functions** menu of the System Info tool, select **Ethernet Addressing**.

The "Ethernet Addressing" window opens.

"Ethernet Addressing" Window



- Enter a static IP address and related network information.
 - Verify that the **HTTP Port:** field is set to the default value of 80.
 - Click **OK**.
- Verify that the iPad can connect to the wireless access point in the home. To do so, browse web pages on the Internet using the Safari® web browser from within the home network:
 - If you can browse web pages, proceed to step 3 at the top of the next column.
 - If you cannot browse web pages, refer to the router documentation for configuration information or to <http://support.apple.com/kb/HT2031> for Wi-Fi network information.

- Configure the iPad:

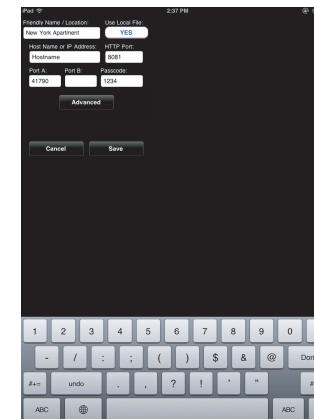
NOTE: The form at www.crestron.com/crestronmobilesetup should be completed by the authorized Crestron installer if the customer is to configure the iPad. The instructions in this guide will then be e-mailed to the customer to provide assistance with the installation and startup of the Crestron app from the iPad.

- On the home screen, tap the Crestron app icon (for Crestron Mobile G or for Crestron Mobile Pro G).
The setup screen opens. When configuring the iPad for the first time, the screen appears empty.
- Tap **Add System**.
The system configuration screen opens.
- Tap the **Friendly Name/Location:** field.
The keyboard opens.
- Enter the name or location of the control system to be connected. The name/location is for reference only and is not a host name.
- Tap the **Host Name or IP Address:** field, and enter the host name or IP address of the control system.

Setup Screen (Empty)



Sample System Configuration



- Verify that the **HTTP Port:** field is automatically populated with the default value of 80, which matches the value assigned in the "Ethernet Addressing" window in step 1c.
- The **Port A:** and **Port B:** fields are automatically populated with the default values of 41790 and 41791, respectively. If the first TCP/IP server port number in the SIMPL Windows program was changed from the default value of 41790 to another value, tap the **Port A:** field and replace 41790 with the assigned value. The next consecutive TCP/IP port number is automatically entered into the **Port B:** field.

NOTE: If the firmware version of the control system is 4.003.xxxx or later, the port numbers used for Port A and Port B must be the same; therefore, enter into the **Port B:** field the same value assigned in the **Port A:** field.

- Tap the **Passcode:** field, and enter the passcode assigned in the SIMPL Windows program. (The default passcode is 1234.)

- If using Secure Sockets Layer (SSL) encryption between the device and the control system, tap **Advanced** to configure the feature.

- Tap **OK** to enable the feature.
- If authentication is set on the control system side, enter a user name and password in the **User Name:** and **Password:** fields.
- Enable SSL on the control system. For details, refer to the control system's Operations Guide.

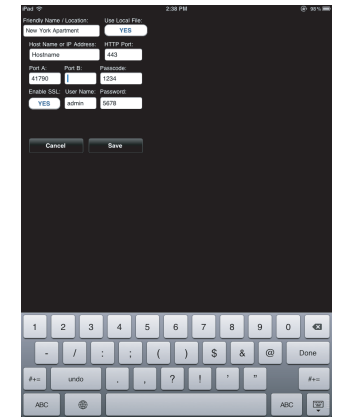
NOTE: If using SSL, the default value in the **HTTP Port:** field changes from 80 to 443.

- Tap **Save**. The setup screen opens, listing the control system that has been added.
- Select the name/location of the control system, and then tap **Connect**. The **Loading Configuration** message appears in addition to a progress indicator.

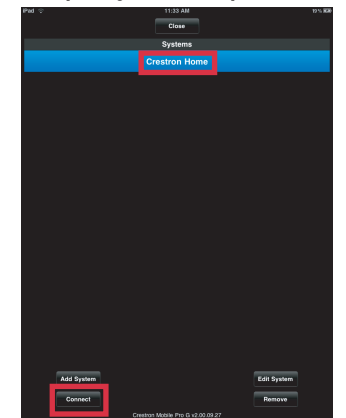
Once the iPad connects to the control system, the device is ready for use as a Crestron touch screen.

NOTE: When the Crestron app is restarted, the application automatically reconnects to the last control system that was connected (default setting). As a result, when only one control system is set up and connected, the need to manually reconnect to the control system is eliminated. For additional information, refer to section 6.

Sample System Configuration with SSL



Sample System Setup



Crestron Mobile™ G and Crestron Mobile Pro® G

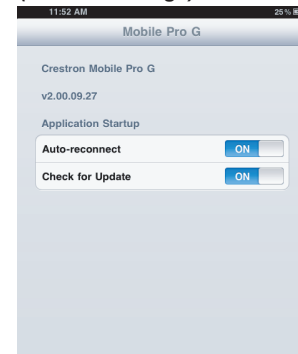
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6 Additional Information

By default, the Auto-reconnect and Check for Update functions of the Crestron app are enabled (set to ON):

- The Auto-reconnect function allows startup of the application to reconnect automatically to the last control system that was connected. The default setting (ON) is the recommended setting when only one control system is set up. When multiple control systems are set up, however, it is recommended that Auto-reconnect be disabled (set to OFF). When Auto-reconnect is disabled, the customer can select the particular control system to be reconnected.
- The Check for Update function allows startup of the application to check for an update of the VT Pro-e project that is loaded in the control system. If an updated project is found, the project is automatically loaded to the iPad. If Check for Update is disabled (set to OFF), the Crestron app uses the last project that was loaded to the iPad.

Auto-reconnect and Check for Update Set to ON (Default Settings)

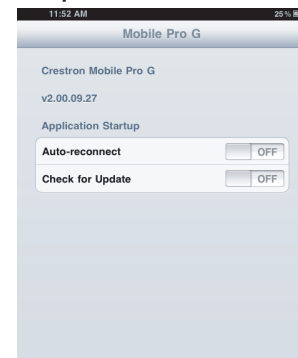


NOTE: While developing and testing your projects, be sure to have the Check for Update function enabled (set to ON) so you can see your project changes after you upload a new project.

To disable the Auto-reconnect or Check for Update function:

1. On the home screen, tap the Settings (⚙️) icon. The Settings list opens.
2. Scroll the list until the name of the desired app appears: **Mobile G** for the Crestron Mobile G app or **Mobile Pro G** for the Crestron Mobile Pro G app.
3. Tap **Mobile G** or **Mobile Pro G** as appropriate. The default screen opens (shown above), allowing you to configure the Auto-reconnect and Check for Update functions as desired.
4. To disable the Auto-reconnect function, the Check for Update function, or both, drag the corresponding slider from right to left. If both functions are disabled, the resulting screen appears as shown to the right.

Auto-reconnect and Check for Update Set to OFF



The specific patents that cover Crestron products are listed at patents.crestron.com.

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