mCerberus™ Quick Start Guide
MCB-200 Series

While this document is useful in getting the unit up and running -- the User is referred to the Main User Guide which contains information regarding setup, safety, the installation environment, and the warranty that covers the unit.

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PROGRAMMING THE SYSTEM

When the SYSTEM is received by the User, the first step is to program it. If this step is not completed, the SYSTEM will not operate correctly. Please follow the following steps:

1. User: Connect the STACK LIGHT unit to the MCB-200 Hardware via the Weather Pack connectors.

2. User: Plug the power cord into 120VAC power outlet

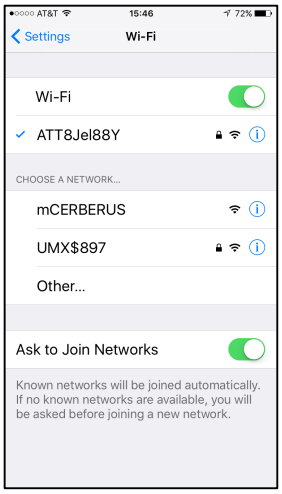
3. System: After a few seconds, the STACK LIGHT will turn RED followed by GREEN. The RED status LED will be OFF. At this point, the User has ten (10) seconds to complete the "press the buttons in order" sequence. There is no need to panic or do this too fast as you have ten seconds to do it.

4. User: Press BTN1 - The RED status LED will turn ON for one second and then turn OFF (make sure you WAIT for it to turn OFF before proceeding)

5. User: Press BTN2 - The RED status LED light will turn ON for one second and then OFF

6. User: Press BTN3 - The RED status LED light will turn ON for one second and then OFF

7. User: Press BTN4 - The RED status LED light will turn ON for one second and then OFF

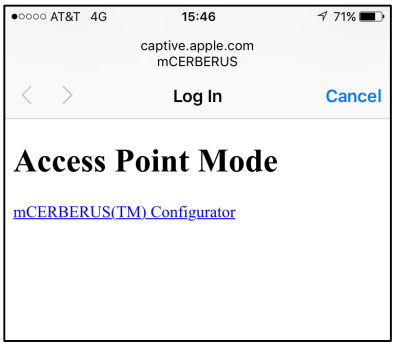


8. User: Wait for the remaining ten seconds to finish. **If the User completed these four operations within the required ten (10) seconds -- the RED status LED will then flash ON/OFF approximately 25 times in rapid fashion.** Then the RED status LED will remain ON. This is your indication that setup mode has been enabled. The SYSTEM has become a WiFi Access Point. This allows you (the User) to login to the system and configure it for operation in your manufacturing operation.

9. User: Log into the SYSTEM using your Smart Phone. The Network name of the SYSTEM is called **mCerberus** (as illustrated).

- If you are using an iPhone -- simply click on this Network name to gain access to it. After you click on this Network name -- your web browser will automatically open up to the Access Point menu (see Step 10)
- If you are using something other than an iPhone (like a laptop with WiFi capability) -- configure your laptop to gain access to the mCerberus WiFi Network. Then open a web browser on your laptop and type in "194.168.1.1" into the web browser address bar and press ENTER.

10. User: At this point, the following screen should appear on your browser screen. Select the **mCerberus™ Configurator** link to enter the SYSTEM configuration screen.

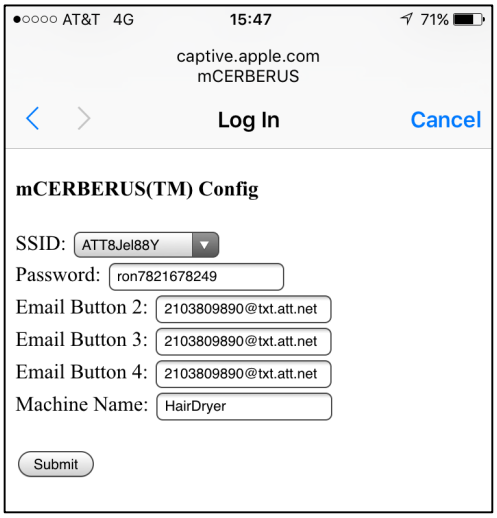


11. User: Next (and finally) the **mCerberus™ Config** screen will appear. Update applicable fields as necessary.

SSID: Select the SSID from the drop down dialog box. The SYSTEM polls and records all current available WiFi Networks in the vicinity. The SYSTEM must be in the area where your designated WiFi Network is operating AND the WiFi Network must be actively broadcasting its name.

Password: Enter the WiFi Network Password.

Note: If you enter the WiFi password into the system wrong -- the SYSTEM will NOT function correctly.



Email Button 2: This is the email address that the text message is sent to when BTN2 is pressed. We provide the following Short Message System (SMS) phone number to EMAIL equivalents for the Major USA carriers (replace cell-phone-number w/ the applicable nine digit cell phone number):

AT&T:	cell-phone-number@txt.att.net
Sprint:	cell-phone-number@messaging.sprintpcs.com
T-Mobile:	cell-phone-number@tmomail.net
Verizon:	cell-phone-number@vtext.com

Email Button 3: This is the equivalent phone number email address that the text message is sent to when BTN3 is pressed.
Email Button 4: This is the equivalent phone number email address that the text message is sent to when BTN4 is pressed.
Machine Name: Enter the name of your WORKCELL in this dialog box (limited to 20 characters)

When you have properly (and carefully) configured the system -- select the **SUBMIT** button. Wait approximately ten (10) seconds for the information to be written to EEPROM.

12. User: **Cycle Power to the SYSTEM by unplugging the unit from the wall power outlet**. Wait a minimum of five (5) seconds and then plug the system into the power outlet. You are done!

NOTE: This step is VERY important if you happen to have multiple mCerberus™ units in your manufacturing plant. If you do not complete this step, the SYSTEM will/may continue to broadcast the mCerberus™ as an available Network Access Point when in fact it is NOT available. The only way to remove this AP Name Broadcast is by completely removing power to the Unit after configuring it.

Getting to RUN Mode

If the User does NOT enter SETUP MODE, the SYSTEM will perform the following steps:

- Initialize system (takes approximately 1 to 2 seconds). Then the SYSTEM waits ten seconds to allow User to Enter SETUP MODE. If the User does NOT enter SETUP MODE, the SYSTEM will attempt to login to the WiFi System
- If the SYSTEM successfully logins to the WiFi system, the SYSTEM will enter RUN MODE.
  - The RED LED status light will be ON (solid)
  - The STACK LIGHT LED status will be set to GREEN
- If the SYSTEM is unable to login to the WiFi system, The RED LED status light will flash ON/OFF slowly (indefinitely

At this point, the SYSTEM may be used. When the SYSTEM is in RUN mode -- any button may be pressed when the RED status light is ON as shown in the figure to the RIGHT.

RUN Mode

Once the SYSTEM has entered RUN mode, the SYSTEM may be used as follows:

- Select BTN1 to change the state of the LED light (from GREEN to RED or from RED to GREEN)
- BTN2, BTN3, and BTN4 sends a text message to the applicable department designee.

NOTE: When either BTN2, BTN3, or BTN4 are selected, the SYSTEM will NOT respond to any User selections UNTIL it has completed the processing of the current selected button. It takes approximately 30 seconds to process a text message. The SYSTEM indicates to the User that it is ready to receive a button press by turning on the RED status LED.

- The figure on the left illustrates when the RED LED status light is OFF (SYSTEM is busy and will not respond to a button press)
- The figure on the right illustrates when the RED LED status light is on (SYSTEM is ready for a button press)

SYSTEM is busy (RED LED status light is OFF)

SYSTEM is ready (RED LED status light is ON)

TEXT SENDING CONFIRMATION

The following sequence will indicate to the User of the SYSTEM if the TEXT sending operation was successful.

Step 1: The User checks to make sure the RED LED Status light is ON (and not blinking). If so - the SYSTEM is ready to accept a BTN press command.

Step 2: The User presses either BTN2, BTN3, or BTN4.

Step 3: The System will turn OFF the RED LED status light.

Step 4: The System will attempt to send the text message (per the applicable button). This process takes approximately 15 to 30 seconds.

Step 5: The SYSTEM will indicate to the User if the text message was sent successfully.

- If the SYSTEM was SUCCESSFUL -- the RED LED status light will turn from OFF to ON
- If the SYSTEM was UNSUCCESSFUL - the RED LED status light will flash ON/OFF several times. It then will remain ON indicating that the SYSTEM is waiting for a button to be pressed.
- If the text message sending process was UNSUCCESSFUL -- repeat the operation
- If the text message sending process continues to FAIL -- then the following steps should be taken to correct the situation
  - Reboot the SYSTEM by removing power, waiting five (5) seconds, and then restoring power (this is basically forcing the SYSTEM to reconnect to the WiFi system).
  - Ensure that the WiFi signal strength meets the minimum requirements
  - Ensure the WiFi Network is active and working
  - Ensure that Port 2525 is not blocked on the Network
  - Ensure that the SMTP relay server IP address is not blocked on the Network