

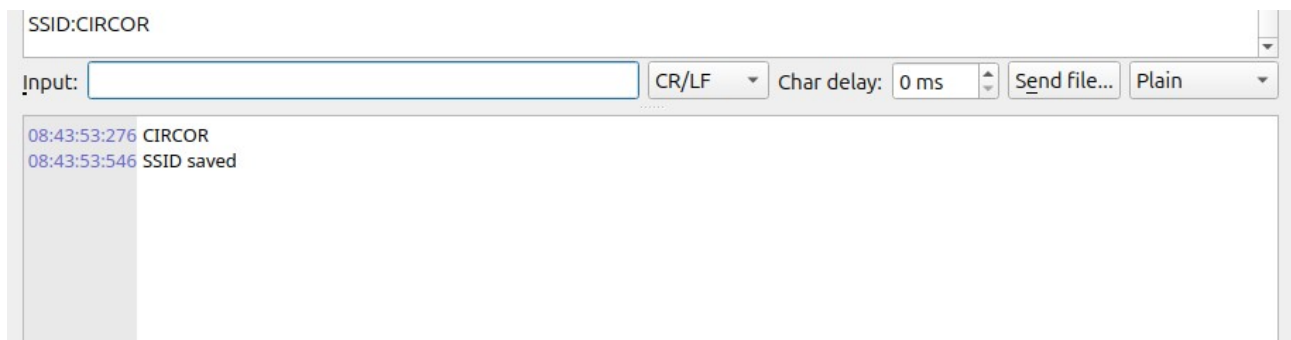
BonoloV5 firmware upgrade procedure

This document outlines the procedure for upgrading the firmware on the Bonolo V5 units from version 1.6 or less, to a newer version. Newer versions avoid the use of flash memory for storage of settings due to random memory loss.

1 Wifi login

A WIFI internet connection is required for this procedure. Less than 2MB of data will be downloaded per device. Set the login details for your WIFI access point on the Bonolo unit. An example is given below for an SSID CIRCOR and a password CIRCOR2005. The text in bold are commands to be sent to the Bonolo device through a UART terminal e.g. YAT. NB: The wifi access point should have WIFI in the 2.4GHz band.

SSID:CIRCOR

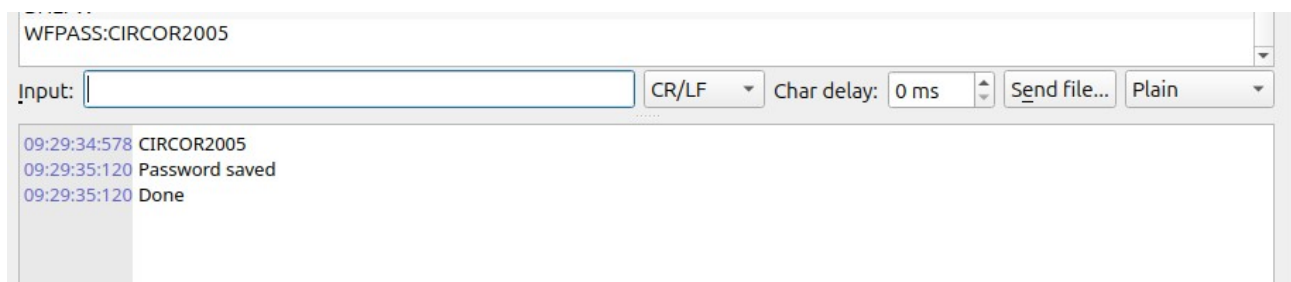


SSID:CIRCOR

Input: CR/LF Char delay: 0 ms Send file... Plain

08:43:53:276 CIRCOR
08:43:53:546 SSID saved

WFPASS:CIRCOR2005



WFPASS:CIRCOR2005

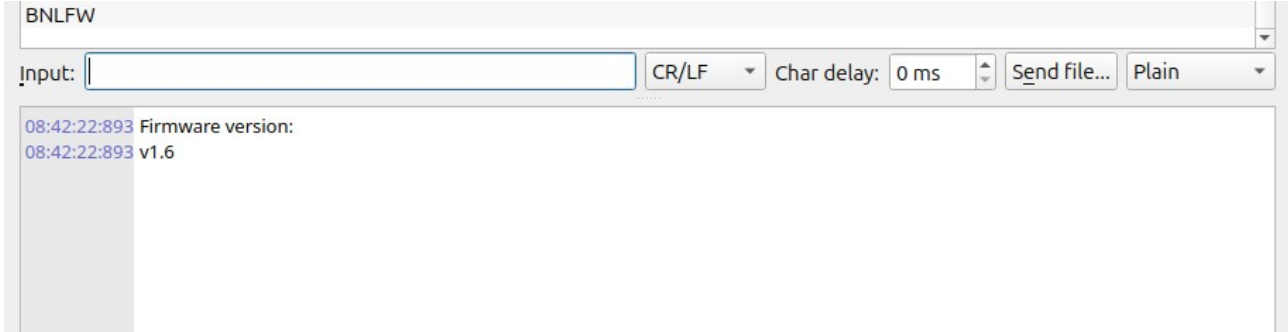
Input: CR/LF Char delay: 0 ms Send file... Plain

09:29:34:578 CIRCOR2005
09:29:35:120 Password saved
09:29:35:120 Done

2 Check current firmware version

Check what version of the firmware is on the device.

BNLFW

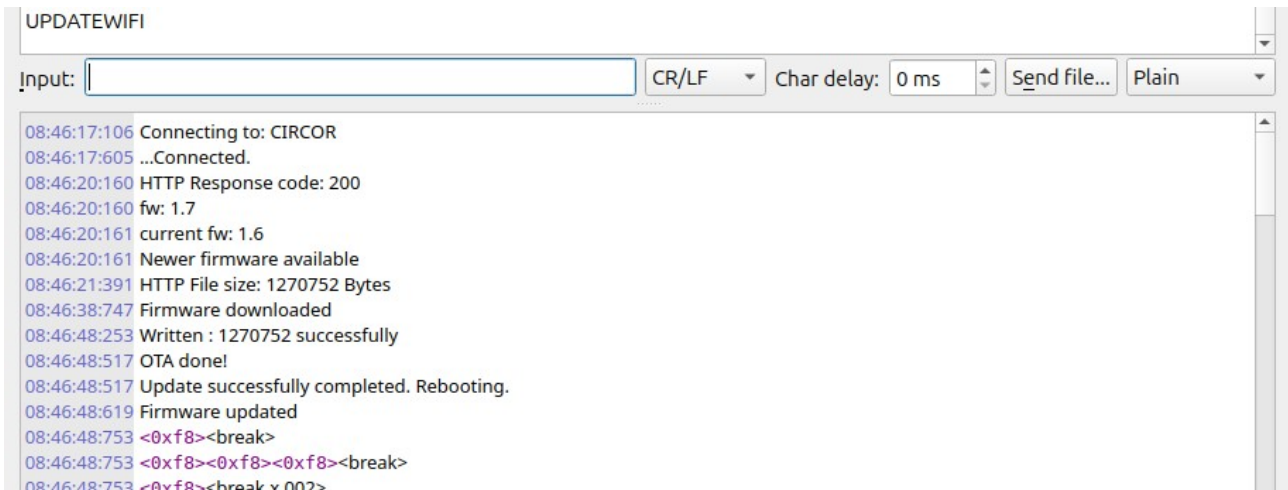


```
BNLFW
Input:
08:42:22:893 Firmware version:
08:42:22:893 v1.6
```

3 Update the firmware

Update the firmware through a WIFI connection

UPDATEWIFI



```
UPDATEWIFI
Input:
08:46:17:106 Connecting to: CIRCOR
08:46:17:605 ...Connected.
08:46:20:160 HTTP Response code: 200
08:46:20:160 fw: 1.7
08:46:20:161 current fw: 1.6
08:46:20:161 Newer firmware available
08:46:21:391 HTTP File size: 1270752 Bytes
08:46:38:747 Firmware downloaded
08:46:48:253 Written : 1270752 successfully
08:46:48:517 OTA done!
08:46:48:517 Update successfully completed. Rebooting.
08:46:48:619 Firmware updated
08:46:48:753 <0xf8><break>
08:46:48:753 <0xf8><0xf8><0xf8><break>
08:46:48:753 <0xf8><break x 00?>
```

4 Verify the serial number of the unit

Check what serial number is stored in the memory of the unit and make sure it matches the label on the enclosure.

SN



If they match, skip step 5 and continue from Step 6.

5 Re-assign the serial number if it's wrong

This step is only essential if a mismatch was found in step 4.

We will set the serial number on the device's memory to match the label on the enclosure.

First login as an administrator

LOGIN:Upahw9ma

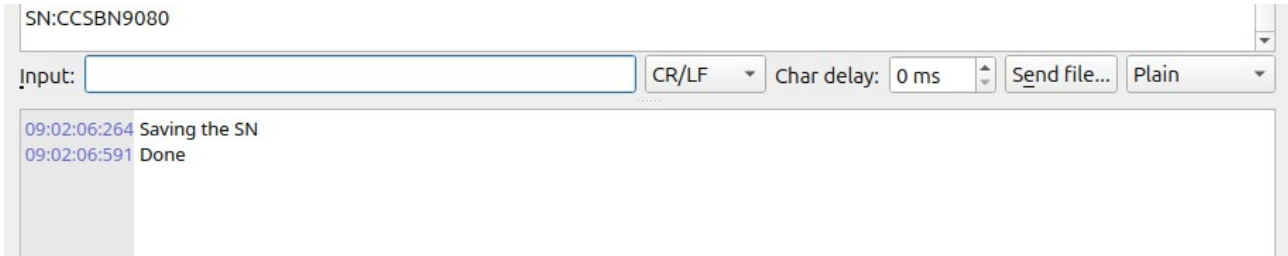




Then reset the serial number. This is a critical step and must be set correctly otherwise the unit will not be visible on the network.

SN:CCSBNXXXX

Where CCSBNXXXX is the serial number label on the physical unit.



6 Re-assign WIFI login credentials.

After updating the device firmware in step 3, the WIFI credentials are cleared from the device. We need to reassign them before the next steps which also require WIFI access.

SSID:YourWifi

WFPPASS:YourPassword

7 Update device settings

Update the settings on the device.

GET_AC

