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Firmware Recovery

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Step by Step Firmware Recovery

Author: Skyhook 11 May 2009 Contents: How to recover a broken AirOS device

Requirements:

- UBNT device to upgrade ;-)
- A narrow tool like the pin of a headset or paper clip to press down reset button
- An Ethernet Cable
- A PC or Laptop already configured to access the units (es. [1] (http://www.ubnt.com/wiki/How_to_set_your_computer_up_to_talk_with_UBNT_devices))
- Network settings of PC: 192.168.1.254/255.255.255.0
- FTTP client running on PC
- AirOS firmware file (e.g. XS2.ar2316.v3.4-rc.4351.090504.2146.bin... you can find it on AirOS Support Page (http://ubnt.com/support/airos.php), check for your device!)

Note: this guide refers to a PC running Windows, but is easly applicable to any other OS.

IMPORTANT!

Do not switch off, do not reboot and do not disconnect the device from the power supply during the firmware upgrade process, as these actions will damage the device!

Recovery procedure (applies to AirOS devices running firmware v1.5 or higher)

Windows Users

- 1. First of all, power off the device
- Setup your PC (http://www.ubnt.com/wiki/How_to_set_your_computer_up_to_talk_with_UBNT_devices) : Windows PC's Ethernet
 must be configured manually with the following settings (under Network Connections):
 IP Address: 192.168.1.254, Subnet Mask : 255.255.255.0
- 3. Connect AirOS device to PC
- 4. Begin by depressing the reset button. Keep holding, then power the unit on. Wait 8 seconds then release the button (if you want to reset the unit to factory defaults, wait at least 15 seconds). Signal LEDs will be lit indicating that the device is ready for recovery
- 5. Make sure that AirOS device responds to pings (perform a *ping 192.168.1.20* from a DOS window), if it does not, go back to the first step

Esegui	
-	Digitare il nome del programma, della cartella, del documento o della risorsa Internet da aprire.
Apri:	ping 192.168.1.20
	OK Annulla Sfoglia
C:W	NDOWS\system32\ping.exe
Esecu: Rispos Rispos Rispos	zione di Ping 192.168.1.20 con 32 byte di dati: sta da 192.168.1.20: byte=32 durata<1ms TTL=64 sta da 192.168.1.20: byte=32 durata<1ms TTL=64 sta da 192.168.1.20: byte=32 durata=1ms TTL=64

- 6. Upload firmware image file *.bin* to 192.168.1.20, using a TFTP client software (binary mode). Windows integrated command line TFTP client or download a third party utility to upload the AirOS firmware. Below are two examples:
 - 1. Windows Alternative 1: From Windows PC, you can use TFTP command line from a DOS window (START>>>CMD):

Esegui	2
-	Digitare il nome del programma, della cartella, del documento o della risorsa Internet da aprire.
Apri:	cmd
	OK Annulla Sfoglia

Go into the same directory structure as the firmware (e.g., assuming that you have stored the image files in *c*:\firmware directory, type the command :cd c:\firmware) and enter the following (for help type TFTP -h), e.g.:

tftp -i 192.168.1.20 put XS2.ar2316.v3.4-rc.4351.090504.2146.bin

ex C:\WINDOWS\system32\cmd.exe	_ 🗆 ×
Microsoft Windows XP [Versione 5.1.2600] <c> Copyright 1985-2001 Microsoft Corp.</c>	<u> </u>
C:\Documents and Settings\RCX>cd c:\firmware	
C:\firmware>dir Il volume nell'unità C è XP-SP1 Numero di serie del volume: 3CAC-EF9C	
Directory di C:\firmware	
11/05/2009 15.25 <dir> . 11/05/2009 15.25 <dir> . 05/05/2009 15.42 2.993.617 XS2.ar2316.v3.4-rc.4351.090504.2146.bin 1 File 2.993.617 byte 2 Directory 10.906.992.640 byte disponibili</dir></dir>	
C:\firmware>TFTP —i 192.168.1.20 PUT XS2.ar2316.v3.4-rc.4351.090504.2146.b Trasferimento effettuato: 2993617 byte in 17 secondis, 176095 byte/s	in
C:\firmware>	-

2. Windows Alternative 2: Download and execute tftp2 (http://www.dd-wrt.com/dd-wrtv2/downloads/others/tornado/Windows-TFTP/tftp2.exe) and configure it as in the image to upgrade.

S5.openwrt.r12340.guifibages.bin
S5.openwrt.r12340.guifibages.bin

7. Signal LEDs will keep blinking one by one in 4 different colors during firmware upgrade. Wait for about 7-10 minutes (devices and firmware depending) - do not power off the device during the procedure!

Linux Users

Generic Linux distributions have an integrated command line TFTP client. From a PC running Linux, you can upload via TFTP by typing into Terminal the following commands:

root@ubuntu:tftp 192.168.1.20
tftp> bin
tftp> trace
tftp> put XS2.ar2316.v3.4-rc.4351.090504.2146.bin
Sent 1965199 bytes in 35.2 seconds
tftp> exit