RECOVERING DAHUA IP CAMERA AFTER A FAILED FIRMWARE UPDATE

You will need a few items to recover your camera. The upgrade tool, a working firmware and optionally a port scanner and putty. Links are provided below.

General_ConfigTool_Er	g_V1.07.3.R.130701.zip <u>http://tinyurl.com/o6p628f</u>
Port Scanner	<u>http://tinyurl.com/q53pojg</u>
Putty	<u>http://tinyurl.com/lvbbmsq</u>
Firmware files	http://www.cctvforum.com/viewtopic.php?f=19&p=266659#p266659 or http://www.cam-it.org/index.php?topic=9396.0

The default IP address of the camera is typically 192.168.1.108 when you receive it.

In this example my camera IP address was changed from the default to 192.168.0.198. You will need to use the IP address that you assigned to your camera. If you didn't change it, it will still be the default address.

Figure 1 shows the open ports on a camera with a good firmware. You can see a long list of ports that provide the services that you would expect. The web port is functional along with all the streaming services, telnet and port 3800 which runs the upgrade daemon. Port 3800 is used to receive and install firmware files.

A 192.	168.0.198 - Pu	TTY			-		- ×
~ # ne	etstat -a	-p		d and black and			
Broto	Pagu-0 S	c coni	Local Address	Ecreign Address	Ctate.	BID/Brogram name	
ton	0	enu-y	0.0.0.0.49152	0.0.0.0.*	LISTEN	975/gonia	
top			0.0.0.0:9989	0.0.0:*	LISTEN	975/sonia	
top			0.0.0.0:9990	0.0.0:*	LISTEN	975/sonia	
top			0.0.0.0:5000	0.0.0.0:*	LISTEN	975/sonia	
top					LISTEN		
tcp					LISTEN		
tep			0.0.0.0:3800	0.0.0.0:*	LISTEN	870/upgraded	
tcp			localhost:46842	localhost:5000	ESTABLISHED	975/sonia	
ccb			localhost:5000	localhost:46843	ESTABLISHED	975/sonia	
top			localhost:46844	localhost:5000	ESTADLISHED FCTADI TCUED	975/sonia	
TCD			localhost 5000	localhost:46841	ESTABLISHED	975/sonia	
tcp			localhost:46843	localhost:5000	ESTABLISHED	975/sonia	
tep			localhost:5000	localhost:46842	ESTABLISHED	975/sonia	
top			localhost:5000	localhost:46844	ESTABLISHED	975/sonia	
top			:::9988		LISTEN	975/sonia	
tcp					LISTEN	975/sonia	
tcp					LISTEN		
tcp					LISTEN	975/sonia	
tcp			:::telnet		LISTEN	793/telnetd	
ccp		0	:: 1111:192.168.0.19	8:37777 ::FFFF:192.168	.0.130:50182 ESTAB	LISHED 975/sonia	
cep		919		0.22222	0 120.50105 FETAR	SLISHED /93/terneta	
top				9.37777 ffff.102 169	0 120.50927 FSTAR	ISHED 975/sonia	
tcp			::ffff:192.168.0.19	8:37777 ::ffff:192.168	0.120:59826 ESTAB	LISHED 975/sonia	
tcp			::ffff:192.168.0.19	8:37777 ::ffff:192.168	0.120:59828 ESTAB	LISHED 975/sonia	
tep			::ffff:192.168.0.19	8:37777 ::ffff:192.168	.0.130:50183 ESTAB	LISHED 975/sonia	
udp			0.0.0.0:20000			975/sonia	
udp			0.0.0.0:20001	0.0.0:*		975/sonia	
udp			0.0.0.0:20002	0.0.0:*		975/sonia	
udp			0.0.0.0:20003	0.0.0.0:*		975/sonia	
uap			0.0.0.0:20004	0.0.0.0:*		975/sonia	
udp			0.0.0.0.20005	0.0.0.0.*		975/sonia	
udp			0.0.0.0:20007	0.0.0.0:*		975/sonia	
udp			0.0.0.0:20008	0.0.0:*		975/sonia	
udp			0.0.0.0:20009	0.0.0:*		975/sonia	
udp			0.0.0.0:20010	0.0.0:*		975/sonia	
udp			0.0.0.0:isdnlog			975/sonia	
udp			0.0.0.0:vboxd			975/sonia	
udp			0.0.0.0:20013	0.0.0:*		975/sonia	
udp			0.0.0.0:20014	0.0.0:*		975/sonia	
udp			0.0.0.0:20015	0.0.0.0:*		975/sonia	
uap			0.0.0.0.20016	0.0.0.0.*		975/sonia	
udp			0.0.0.0.20017	0.0.0.0.*		975/SONIA	
udp			0.0.0.0:20019	0.0.0.0:*		975/sonia	
udp			0.0.0.0:20020	0.0.0.0:*		975/sonia	
udp			0.0.0.0:20021	0.0.0.0:*		975/sonia	
udp			0.0.0.0:20022			975/sonia	
udp							=
udp			0.0.0.0:59999	0.0.0.0:*		975/sonia	
udp			239.255.255.250:190	0.0.0.0:*		975/sonia	
uap	0	0	0.0.0.0:37778	0.0.0.0:*		975/sonia	

Figure 1

In the following screen print (Figure 2) taken after a bad firmware upgrade, you can see that only telnet and the upgrade service on port 3800 are still open.



Figure 2

You can confirm your camera is on the network by sending a ping command to the last known IP address. In the following examples, you can see that it doesn't respond to the default address, but does to my configured address.



Launch the ConfigTool and click on the login button.

SN	IP Address	Port Subnet Mask Default Ga Mac Address Device Http
	Login	×
	IP Addres User Nam Password Port:	:: 172:52:2272 :: admin
Tip:	: You can click "login" but IP All V NIC:	m on directly and then input corresponding information to login. 182.106.01 E - BatchNpgrade Bafresh Login Logout

Change the login information to your IP address, admin, your WEB UI password and port 3800.

ogin		×
	IP Address:	192.168.0.198
	User Name:	admin
	Password:	****
	Port:	3800
		Login Cancel

All the tabs in the config tool will be locked out since the other service ports are not running on the camera. Browse the location of your firmware file by clicking the open button. Then click the upgrade button.



You will see the progress bar as the file is uploaded and applied. Your camera will reboot after the process has completed.

	System Information System upgrade				
Upgrade Information					
Upgrade File:): Wy Stuff Wy Software goodshit (Surveillance	Open			
Current Progress:		Upgrade			
System is transmitting file	now.Please wait	time:	2	second	

That's it!!

If you chose a compatible firmware file, your camera will be back in working order. If you have a version 2 camera, the files that are compatible are a little limited so you may have to revert to an older firmware and not use the most current.

Visit my threads at <u>http://www.cctvforum.com/viewtopic.php?f=19&p=266659#p266659</u> or <u>http://www.cam-it.org/index.php?topic=9396.0</u> for more updated information, firmware files and more advanced recovery using the serial interface.

There are also instructions on using telnet to reset your camera to factory defaults using telnet. Visit the forum thread for all the information.