# Using TFTP with Get Console (with or without Airconsole)

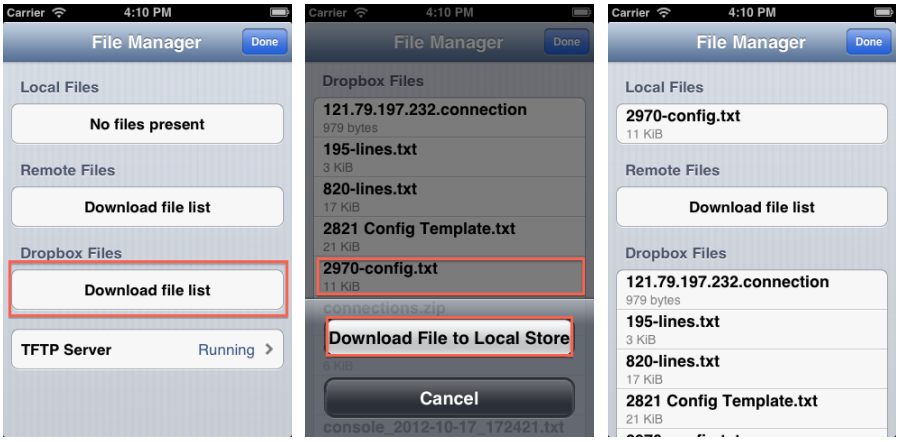
This note explains the operation of the Get Console TFTP Server feature, when used in conjunction with a wireless-wired bridge such as Airconsole.

Get Console has a built in TFTP Server. This server allows for a TFTP client to both download and upload files from the iPad/iPhone running Get Console.

## Downloading Files from Get Console TFTP Server

The TFTP server is enabled by navigating to the File Manager and starting the server process. After starting the App will display the


Once the TFTP Server is running it can serve files to TFTP clients that are saved in the **local** Get Console file storage sandbox. To get a file into this Local Get Console file area, the easiest way is to download from Dropbox. Alternatively you can download from your file area if you have an account on the www.get-console.com website, or upload a file via iTunes to the Get Console app. The below example uses Dropbox. Note that Get Console ONLY has access to the Dropbox/My Apps/Get Console/ folder, so ensure the files you want to download are in that folder within Dropbox.

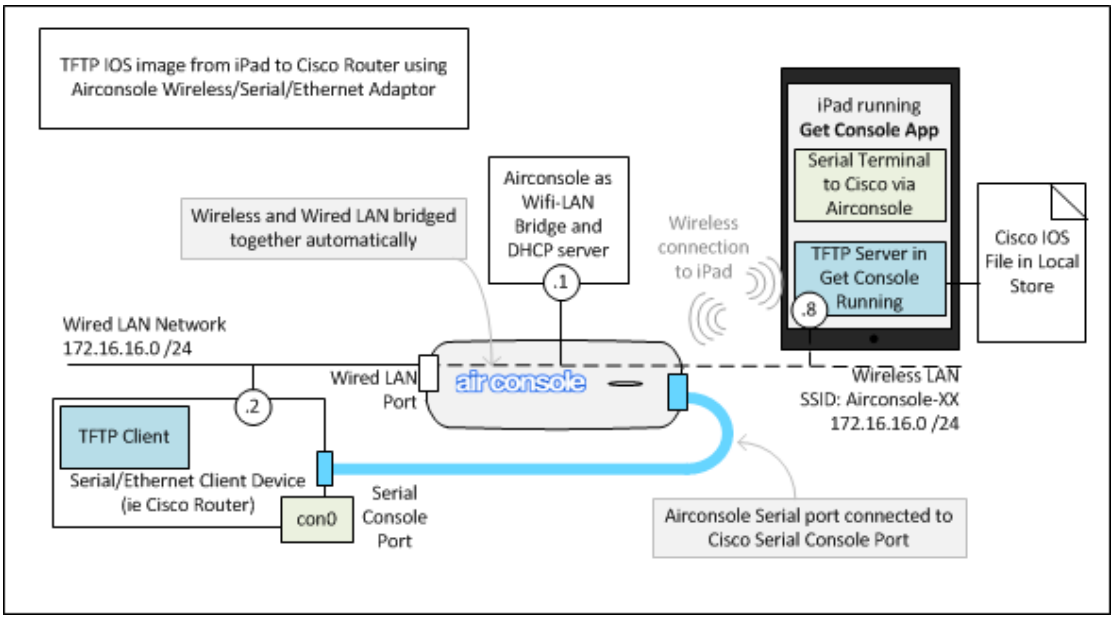



Once the files you wish to be available to a TFTP client are in the Local File area they are automatically available for download when the TFTP server is running.

To download from a TFTP client, ensure the client is on the same WIFI network as the iPad/iPhone and invoke the download process of the TFTP client. The iPad/iPhone's IP address is shown on the TFTP server settings. Note that if the iPad/iPhone has multiple

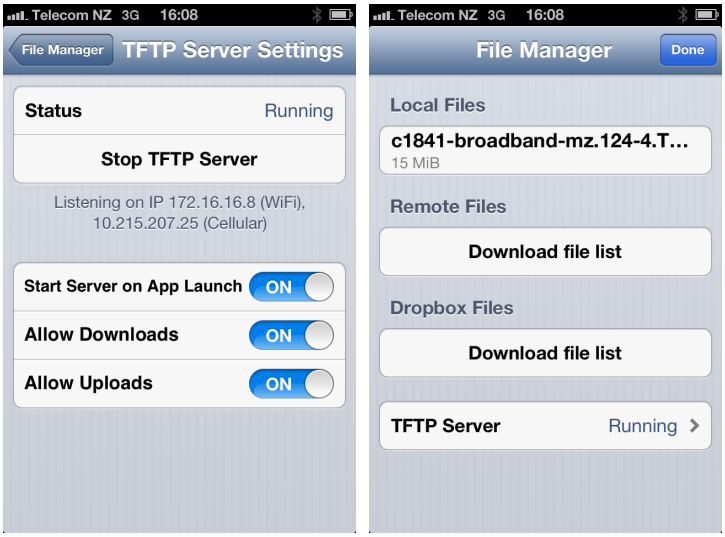
IP addresses (for example if it is also connected via a VPN tunnel, and / or has an active 3G network connection) then all IP addresses can be used by the TFTP server.

The following example shows how to use Get Console in conjunction with Airconsole to download a Cisco IOS image to a router using Get Console TFTP server.

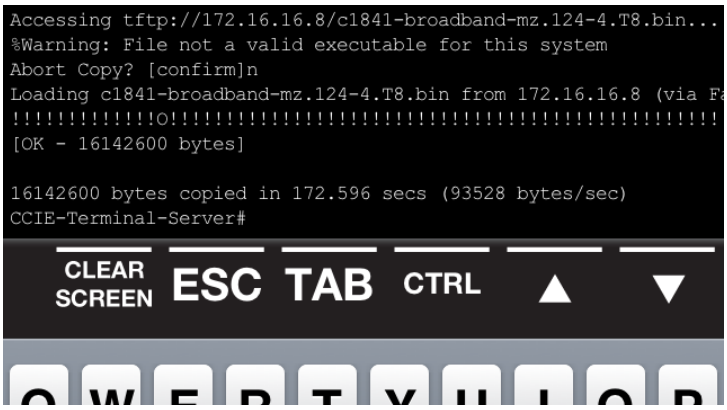



In this example, a Cisco router is connected to Airconsole via both its wired Ethernet port and via its serial console port. The iPad WIFI is joined to the Airconsole-XX wireless network.

The Get Console app is running on the iPad and has launched a serial console connection via Airconsole to the Cisco con0 port. In addition, the TFTP server has been enabled in Get Console File Manager, and the Cisco IOS image file is in the *local* Get Console file storage area.




1) From the serial console session, start the TFTP client running on the cisco router with the “copy tftp flash” command
2) Specify the iPhone/iPad IP address on the Airconsole WIFI (172.16.16.8 in this example)
3) Specify the file name on the TFTP server. This name is case sensitive and must match exactly the name of the file in the local file store in Get Console
4) Specify the destination file name and confirm to start download. Note in this example there is a warning as the test file we are downloading is not compatible with the router. In normal use there will not normally be a warning.
5) The copy process will start and indicate progress with “!!!” characters



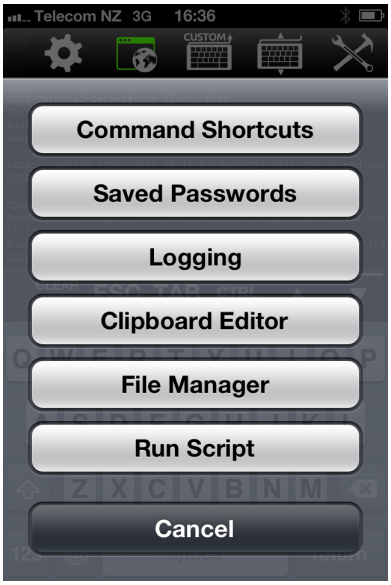

Once complete, the router will return to its # prompt. The Get Console TFTP server can be disabled now if required.

## Uploading Files to the Get Console TFTP Server

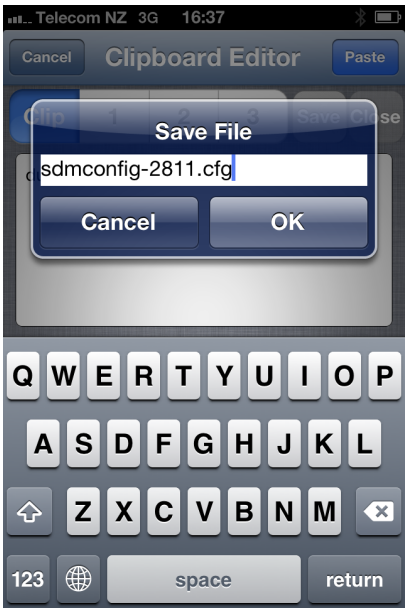
Uploading files to iPhone/iPad TFTP server running on the Get Console App requires the reverse process as downloading files, however in the current version of Get Console (v1.95), the user must first create a dummy file in the local file system with the same name as the file they are uploading. This restriction will be removed in future versions.

Ensure there are no other apps running on your iPhone/iPad that could be listening on the TFTP port (udp/69).

1) Create dummy file by launching Clipboard Editor, typing some text, then Save. Save the file name as the name of the file you will be uploading via TFTP

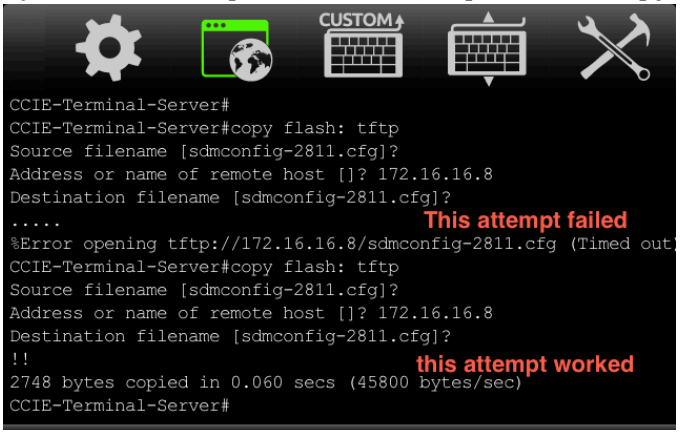







2) Verify the dummy file is in the Get Console Local file store


3) Use the same process on the tftp client to copy the file up to the iPhone's TFTP server.




The screen shot shows 2 attempts to upload the same file. The difference between the attempt that worked and the attempt that failed was:

a) stopping/starting the TFTP server in Get Console. Including disabling/enabling Uploads in TFTP

b) ensuring no other iPhone applications were listening on UDP/69 by shutting them down.

If your TFTP client can successfully ping the iPhone running Get Console, there is a valid file in the local storage with the same name as that which is to be uploaded and the TFTP upload still times out, try restarting the TFTP server in Get Console, and checking for competing apps that may be also listening on TFTP ports.