# TRANSFER VIPER CONFIGURATION FILES

PN 009-XXXX-XXXX (Assigned During Routing)
Revision X
Release Data

TECHNICAL SERVICE APPLICATION NOTE

http://www.calamp.com/support/download-library

## OBJECTIVE

The objective of this technical support application note is to provide the user a procedure to transfer/import a Viper configuration file ( **.drp** file) from a PC folder into the Viper. The application note will also provide a procedure to obtain the current Viper configuration and export the file to a PC. This procedure will essentially clone the Viper with the same configuration settings contained in the **.drp** file. This process can also be used to clone a Viper radio that has out of the box configuration to a replacement Viper with a known desired configuration. This application note will assume that the Viper has the default IP address of 192.168.205.1.

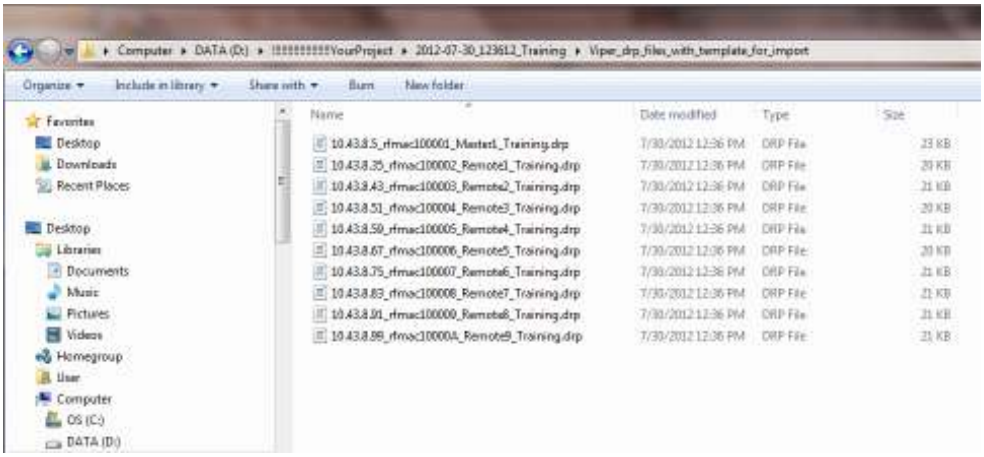
## EQUIPEMENT AND APPLICATIONS NEEDED

The user should have the FTP Commander Application installed on their PC and they also should have the Viper's configuration file/files (**. drp files**) in a known folder location on their PC. The user should also have a Viper set to default values and connected to their PC via an Ethernet cable.

### VIPER CONFIGUARTION FILES

The Viper configuration files can be obtained by several different methods. In this example the configuration files were generated by the Viper Route Generator Application. The user also could obtain a single configuration file from a Viper by following the instructions in the manual for saving the current configuration file and saving the configuration file to their PC.

A list of Viper configuration files is shown below. This example will transfer the **Master1 .drp** into a Viper with factory default settings.




List of Viper's .drp configuration files

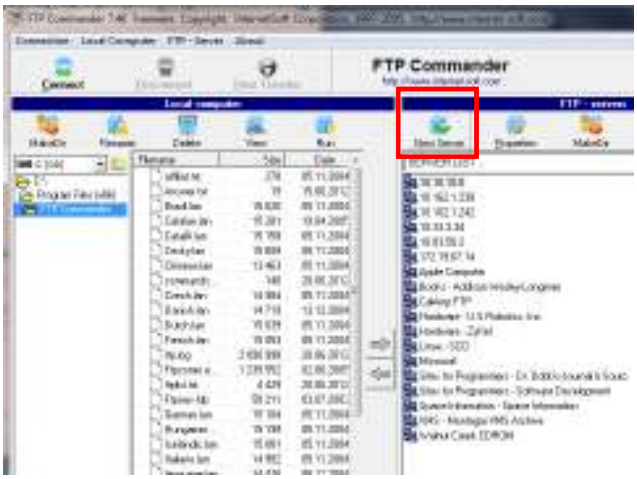
### INSTALL AND SETUP OF THE FTP COMMANDER APPLICATION

The FTP Commander Application is a file transfer utility. It uses the well known ftp port of 21 and the ftp protocol to transfer files into the Viper. The Viper has an ftp server and the FTP Commander acts as a client that connects to the Viper's ftp server via an Ethernet connection.

Download the FTP Commander and install it on the desired PC that will be used to transfer the file.


FTP Commander

Start up the FTP application and click on the “New Server” button icon.

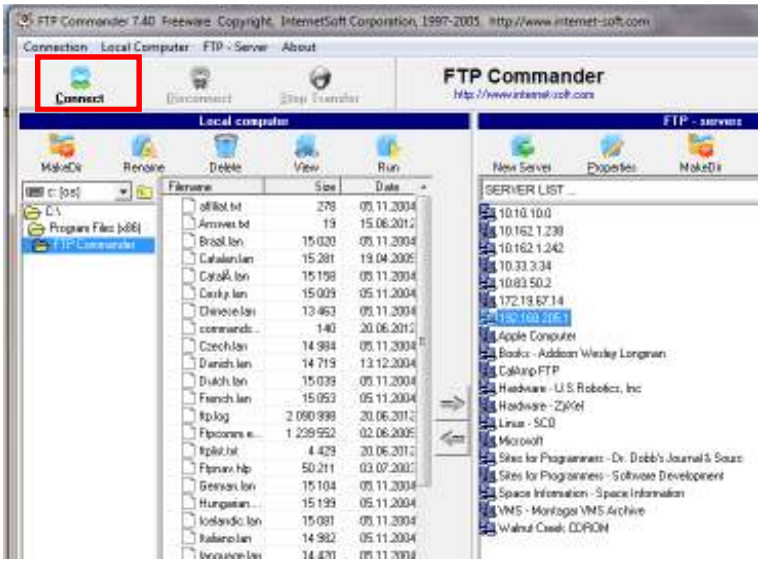



FTP Click on New Server Button

Enter the IP address (192.168.205.1) of the Viper in the Name and FTP Server registers and then **ADMINISTRATOR** in the Password register. Then click the SAVE button to close the FTP Server Properties window. User ID box as **Admin**

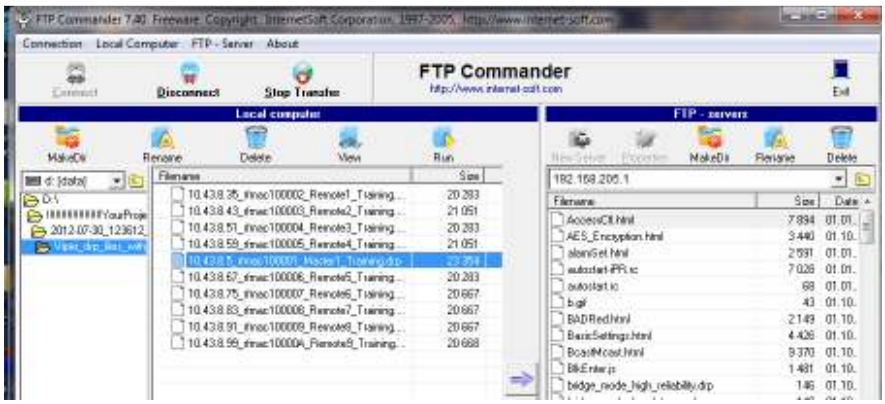
Enter the Server Properties To Connect To 192.168.205.1

Select the new IP address (192.168.205.1) from the Server list on the left panel. Then click on the “Connect” button.



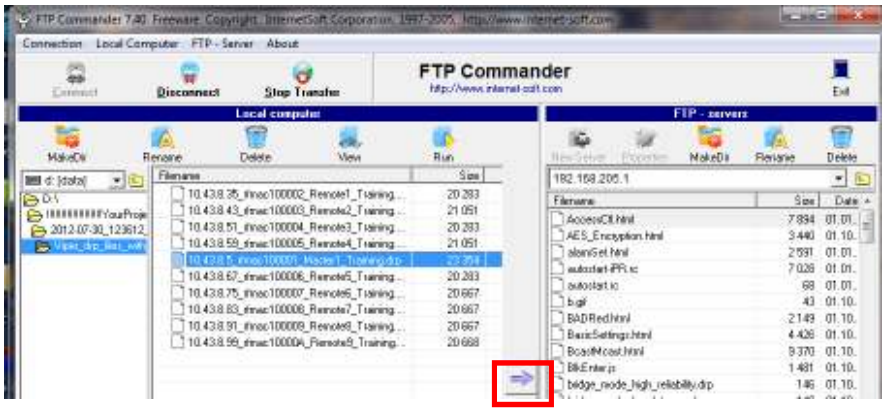

Select 192.168.205.1 Viper to Connect to

The FTP Commander will connect to the Viper and will read the files from the Viper. If successful, all the files will be displayed in the right hand panel. It will not display the files if the connection is not successful and the user should check the server properties to ensure it matches the Viper’s IP address and password.




Viper files will be displayed on the right

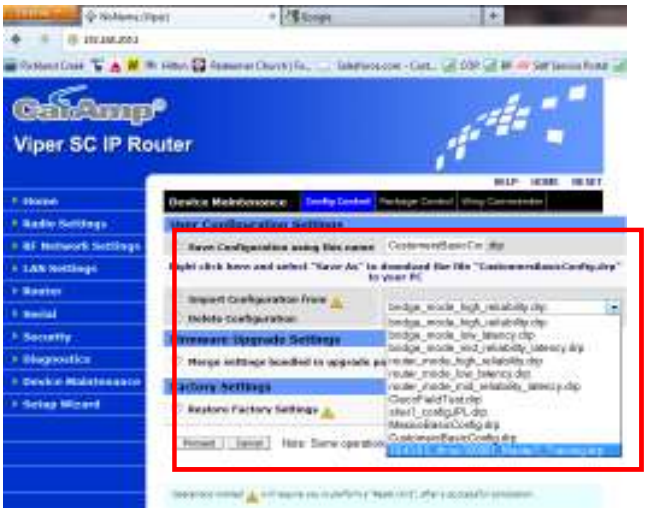
On the left hand side browse to the Viper .drp file location and select the file to be transfer to the Viper. In this example the files are located on the D:\!!!!!!!!!!!YourProject\Viper_drp_with_template_for_import folder and the first file in the list (Master1) were selected.




Select the file to transfer into the Viper

Then click on the **Arrow** pointing to the right button in the middle to start the transfer. The file will be transferred to the Viper. If the file already exists in the Viper the FTP Commander will ask the user to "Over write the file" click all or yes. Close the FTP Commander once the desired file has been transferred.

Connect to the Viper's Device Maintenance web page (192.168.205.1) via a web browser. Then select the file that was transferred from the drop down box as shown below.




Then enable the **Import Configuration from** radio button and import the selected file by clicking on the **Proceed** button.


This will import the file but the configuration will not take effect until the unit is reset. Click on the **Reset** button, the **Reboot** button and they **OK** button when prompted and then the Viper will reset. After the Viper resets; it will have the new configuration with the new IP address in it.

To check the new configuration change the IP address of the PC to match the new IP address of the new configuration's network.

This completes the Vipers configuration file transfer.

## OBTAIN THE CURRENT VIPER'S CONFIGURATION .DRP FILE

The user can obtain the current Viper's configuration **.drp** file from any Viper and transfer that file in to another Viper to clone it. **This is helpful when a Viper in the field needs to be replaced with an exact copy of the operating Viper configuration.** The Viper's configuration is stored in a file with the extension **.drp** and can be transferred in to any other Viper to **clone** that radio by using the above procedure.

Navigate to the Device Maintenance page with the Navigation Panel on the left hand side of the Viper's home page. Ensure all the parameters have been saved in the Viper. It is recommended that the Viper be reset and the parameters doubled check to ensure the correct settings have indeed been saved**. Note: Some of the setting such as router mode will not take effect until the Viper has been reset.**

Click on the **Save Configuration using this name** radio and also enter the desired file the file will be saved as. In this example it is CustomerBasicConfig. Then click the **Proceed** button. This will save the file only to the Viper internal file system.


This step only saves the .drp file to the Vipers file system, not to the PC

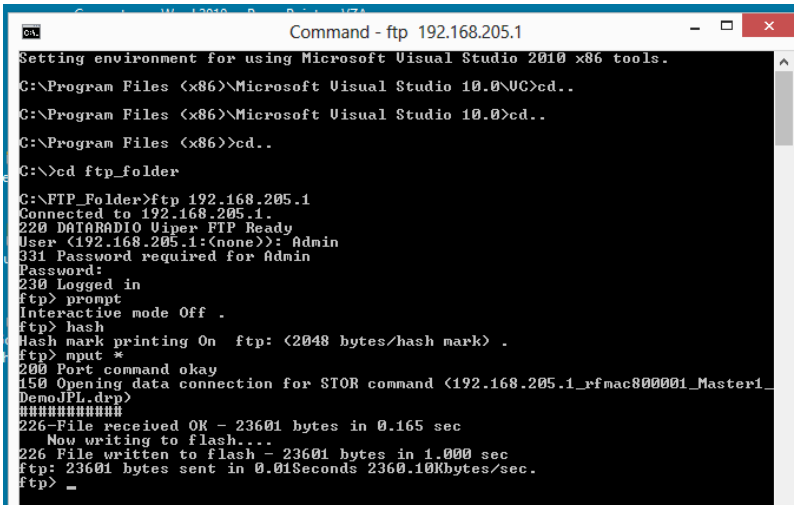
A popup prompt will prompt the user to Right Click on link to save file to the desire file location on the user's PC.


Save file to the desired PC's location, this saves it to the PC

Once the .drp file has been saved to the PC this file can be used to clone another Viper.

## USING THE DOS FTP UTILITY TO CLONE A VIPER

Store the Vipers configuration .**drp** file to a known location. In this example the FTP_Folder directory is used. Use the **CD** command to change to the required directory. The **CD..** commands backs up one directory at a time. As before ensure your PC's IP address is on the same subnet as the Viper to be upgraded.



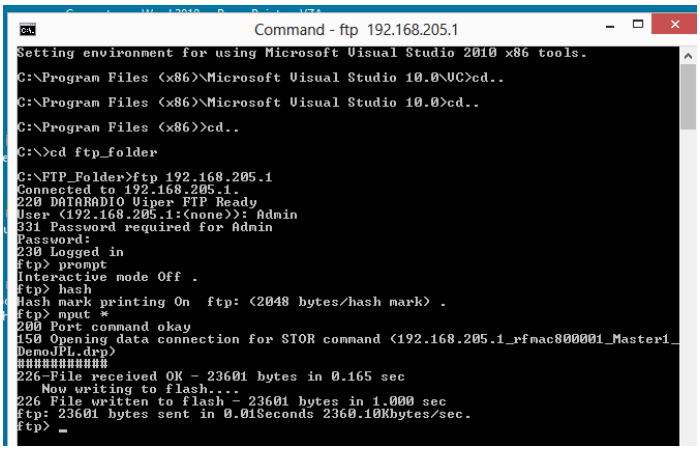

Change to the desire directories

Start the FTP DOS utility by connecting to the Viper's IP address:

ftp 192 168.205.1

Enter the user name: **Admin**

And the password of **ADMINISTRATOR** to log in to the Viper's FTP server.

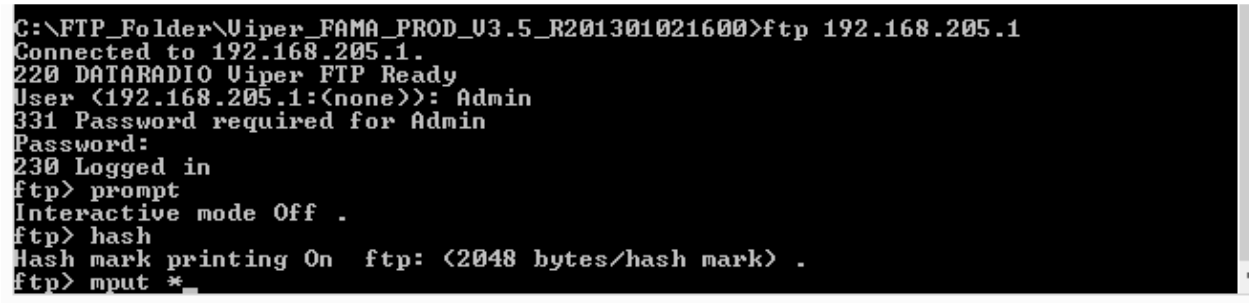



Type the following DOS ftp commands to transfer the files to the Viper:

ftp> **prompt** (enter key)

ftp> **hash** (enter key)

ftp> **mput** * (enter key)




This will transfer all the files in the **current ftp directory**. **It is extremely important to have only the Viper .drp file and no other files in this directory.**

Once the file have been transferred type

ftp> **close** (enter key)

This will close the ftp connection, and then type **quit** to return back to the normal command prompt directory. This completes the DOS FTP procedure.