Setting a DHCP Server to work with Avaya H323 Phones
Telquest Tech Support

For the **TFTP** Server:
Option 176   MCIPADD=x.x.x.x,MCPORT=1719,TFTPSRVR=y.y.y.y

For the **HTTP** Server:
Option 242   MCIPADD=x.x.x.x,MCPORT=1719,HTTPSRVR=y.y.y.y

Where:
x = the IP Address of the KSU
y = the IP Address of the File Server (usually the same as the KSU)

The following may not work on all DHCP Servers.

If you want to add the VLAN:

For the TFTP Server:
Option 176
MCIPADD=x.x.x.x,MCPORT=1719,TFTPSRVR=y.y.y.y,L2Q=1,L2QVLAN=5,VLANTEST=0

For the HTTP Server:
Option 242
MCIPADD=x.x.x.x,MCPORT=1719,HTTPSRVR=y.y.y.y,L2Q=1,L2QVLAN=5,VLANTEST=0

Where **L2QVLAN=5** is the example.

OK, so the options 242 and 176 do the same thing but for different types of phones.

The way it works is that the phone boots up natively in the data vlan.
Avaya 46xx phones use option 176 (TFTP) and 96xx/16xx phones use option 242 (HTTP).
Note: The phones first try HTTPS but that will fail, so just wait for the HTTP to load.

L2Q=1 is the setting that tells the phone to operate as an 802.1q trunk.
L2QVLAN =5 tells the phone that it should be in vlan 5.
So basically the phone boots up in the data vlan, receives a data IP address, and then looks at these options.
The phone then resets and boots up in the vlan defined by L2QVLAN.

In the above example, it is vlan 5.
The phone now receives an IP address on vlan 5 and the additional option.
The difference now is that option has different information for the phone

In the above example:
Option 242
MCIPADD=x.x.x.x,MCPORT=1719,HTTPSRVR=x.x.x.x

MCIPADD is the ip address of the call server/KSU, MCPORT is the port that it will use to communicate on.

HTTPSRVR is the HTTP server/KSU that the phone can pull down http files from.

So basically these additional options tell the phone where to pull down its config from and what call server to register with.

Ken Boone

If you use TFTPD32, then add these settings to the tftpd32.ini

AddOptionNumber0=176
AddOptionValue0=MCIPADD=x.x.x.x,MCPORT=1719,TFTPSRVR=y.y.y.y

AddOptionNumber1=242
AddOptionValue1=MCIPADD=x.x.x.x,MCPORT=1719,HTTPSRVR=y.y.y.y

Where:
x = the IP Address of the KSU
y = the IP Address of the File Server (usually the same as the KSU)