



HOW to SETUP a CISCO CATALYST ROUTER for HDMILAN

Start a Windows HyperTerminal session at 9600, N, 8, 1 and point it to the COM port that is attached to the CONSOLE port on the switch. When you first connect to the RS232 CONSOLE port press enter a couple times to get to the Switch> prompt. Then issue the following commands (note that the default password on a Cisco switch is 'password'). You press ENTER after each command. The RS232 GUI software issues the same type of commands to control the switch (with a CRLF after each command). Comments are placed inside [brackets], and are offered for your edification and are not to be entered.

```
enable
password
conf t
line con 0
exec-timeout 0
[sets the Cisco console to NEVER timeout, so we don't have to bother with the password again]
exit
exit
write
[the WRITE command saves your work to the switches memory]
[now lets create some new VLAN's for our 5 HDMI over IP channels - you can use your own names for the channels]
```

These commands tell the switch to not shutdown the ports which we are using.

```
conf t
vlan 2
name Blu-Ray
vlan 3
name Xbox
vlan 4
name PS3
vlan 5
name DVD
vlan 6
name Camera
exit
exit
write
[now, let's make sure all 24 of our Ethernet ports are enabled]
conf t
int fa0/1
speed 100
int fa0/2
speed 100
int fa0/3
speed 100
.....
[Keep up the pattern till all the ports have been enabled]
.....
int fa0/23
speed 100
int fa0/24
speed 100
exit
exit
write
[Now assign 5 ports (we used 20-24 in the demo) to the 5 transmitters, each on their own VLAN]
conf t
int fa0/20
switchport access vlan 2
int fa0/21
switchport access vlan 3
```

```
int fa0/22
switchport access vlan 4
int fa0/23
switchport access vlan 5
int fa0/24
switchport access vlan 6
exit
exit
write
```

These commands are speeding up the switching and avoid shutting down the port

```
Switch(config)# interface FastEthernet0/XX
Switch(config-if)# switchport mode access
Switch(config-if)# no shutdown
Switch(config-if)# spanning-tree portfast
```

Where XX is the port you are using

[Done! Your switch is now ready for the Crestron Module]

Want to know more? Here is how the GUI's "change channels".

Step 1) There is an "initialize" option behind the scenes of the GUIs that issues the ENABLE command and the associated password needed to be in "privileged" mode. This command only needs to be entered when the switch has been power cycled:

```
enable
password
```

Step 2) Select a port, and change its VLAN. To change port 1 to VLAN channel 4, here are the commands:

```
conf t
int fa0/1
switchport access vlan 4
exit
exit
```

To change port 9 to VLAN channel 6, here are the commands:

```
conf t
int fa0/9
switchport access vlan 6
exit
exit
```

It is not necessary to issue the WRITE command when changing channels.