

## Changing Switch Configurations

S. Durkin Sept. 21, 2011

When VCC controllers, ethernet boards, or a Peripheral Crate computer are swapped, a corresponding change must be made in the Switch Configurations. This note outlines how to reconfigure the switches.

### Which Switches need to be modified?

The MAC address assignments for the switches can be found in:

[http://www.physics.ohio-state.edu/~cms/Netgear\\_Switch/Switch\\_Port2VME\\_Crate.pdf](http://www.physics.ohio-state.edu/~cms/Netgear_Switch/Switch_Port2VME_Crate.pdf)

It is suggested you print this out and circle the MAC address of the faulty device you removed. For VCC controller swaps there should be two entries in this table which need to be modified. For a computer or Ethernet card there should be a total of 4 entries.

### Communicating with the Switches

If you are at CERN login into cmsusr0 and then shell into csc-pc1 or csc-pc2. Switches 1-6 are controlled from csc-pc1 while switches 7-10 are controlled from csc-pc2. From firefox access the switch you want to modify. The address is <http://192.168.10.xx> where xx is the number of the switch (e.g switch1 xx=1 and switch10 xx=10). You will be prompted for a name and password. Type in *admin* for the name, ignore the password and hit enter.

If you are outside of CERN you will need an SSH tunnel (for speed reasons) to access the switches. SSH tunnel scripts can be obtained from cmsusr0 ~durkin/switchTunnel/ for the seven switches. A readme in the directory will explain how to use the scripts.

### Modifying MAC Addresses

First remove the old MAC address. In the web GUI enter *Switch -> Port Security -> Port Security Static*. Enter the port where the MAC address you want to delete. You will then see a list of MAC addresses on this port. Type or past the name of the port you wish to remove and hit enter.

To add in your new MAC address enter *Switch -> Port Security -> Port Security Interface Config*. Enter the port number where you want to add the MAC address. Type in the MAC address and hit enter.

Save the new configuration by entering *Management -> Utilities -> Save Config*. Hit *save* then wait until the display comes back and hit *done*.