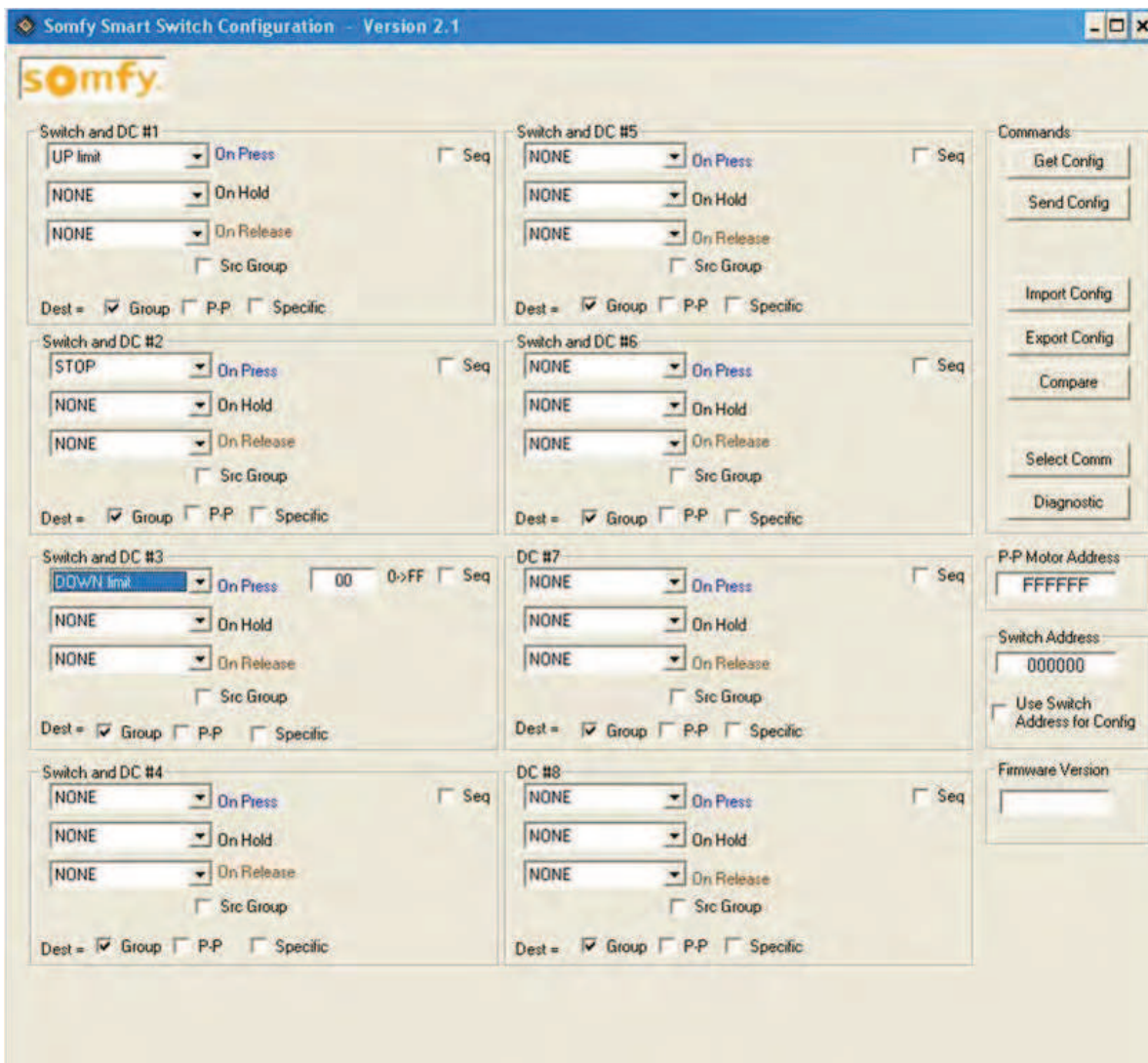


3 Programming the SDN Switch

Next, install the Switch Configuration software and run it from the drop down menu. Unless changed, the drop down menu will be labeled Somfy and the program will be named SomfySwitch.exe. After starting it for the first time, the program may ask that you pick an active COM port. Choose the port that the USB/RS485 serial adapter is connected to and click CHANGE. Exit the program and restart it.

The next screen is as follows:



Overview: There are 8 identical sections labeled Switch and DC #1 – Switch and DC #6, DC #7 and DC #8. Switch and DC #1 through Switch and DC #6 correspond to the push buttons on the SDN switches. The dry-contact inputs are also identified as DC #1 – DC #8. Since there are only a 3 and 6-button switch available, DC #7 and DC #8 do not have a push buttons associated with them.

There are three programmable functions for each push button: On Press, On Hold and On Release. Although all commands are available for each switch action, care must be taken not to program conflicting commands for any one push button. For example it would not make sense for a push button to be programmed as follows:

On Press = Up Limit, On Hold = None, On Release = Down Limit

There are many combinations of commands that would not be practical.

There are 3 additional check boxes in each section that causes the switch to be programmed as follows:

Group: When checked, the push button is identified as a Group push button. Any motor that has the SDN switch address in its group memory (1 of 16) will respond to commands sent by the push button.

P-P: When checked, the push button will only control that motor whose address is in the P-P Addr field next to the Default Button Destination label at the bottom of the GUI. This is useful when one motor in a group that normally move together needs the ability to be activated (or any other command such as Lock/Unlock) separately.

Specific: Similar to P-P. When checked an additional input box appears in the specific Push Button program box where a motor address can be inputted. This allows the ability of each push button to control a specific motor.

Src Group: When checked, an additional input box appears prompting the programmer to input a group address. This is used when multiple groups require control from a single switch.

Only one of the above for each push button can be active at a time. (Group, P-P, Specific or Src Group)

Seq: The sequence check box transforms the operation of the push button from on press, on hold, on release to Function 1, Function 2, Function 3. This allows sequential operation (Up, Stop, Down, Stop, etc.) for any of the above addressing methods.

Rest of GUI:

With only one switch connected to the network and the check box; **Use Switch Address for Config** unchecked, the present switch configuration can be read or written by clicking **Get Config** and **Send Config** respectively. The **Get Config** will also return the switch address. Before configuring the switch, the parameters must be set in the Input #1 – Input #8 programming boxes.

If the **Use SW P-P Address for Setup** is checked, then the switch address must be known and inputted in the Switch Address field. This is useful when only one switch of many on a network needs to be configured.

Import Config: Use to import a saved switch configuration. This saves time when several switches have the same or similar configuration. Note: address of switches must be known.

Export Config: Use to save a switch configuration.

Compare: Compares File to Screen Setup: Useful for troubleshooting to verify configuration.

4 General Installation Notes

- As already mentioned, the motor and switch addresses should be read and recorded prior to installing the window treatments. This will greatly reduce the amount of time on site commissioning the system.
- Proper motor direction and limits should be set prior to commissioning the system.
- Prior to plugging a lengthened motor data cable into the Tap, it should be checked to make sure the cable is correct by using an ILT switch to move the motor. Note: cable must be straight thru and not crossed.
- A quick way to see if there is power on a segment is to look inside the Tap; a red LED should be illuminated. A switch may also be connected to a segment, the power LED should be illuminated red.
- For commissioning, it is helpful to program all motors with the same switch address in location #16. This way a single switch can control all motors. This will make troubleshooting easier.
- A typical installation is a multi-floor building. For example, if there is a 5 story building with 25 nodes per floor it may not be practical to have one long segment of 125 nodes. More than likely there will be one powered segment per floor terminating in an equipment room. As each segment is powered they can not be “daisy-chained” together using the Taps. In this case the data lines need to be connected together while the power is isolated using punch-down or Keystone jacks as follows:

