



**DSX Access Systems, Inc.**

## **First Man In / Snow Days**

### **Do Not Unlock Door by Time Zone until First Card Read**

DSX can accommodate keeping a door locked until a card holder is granted access at that same or other door. This prevents a door(s) that normally unlocks via Time Zone from unlocking on a day when no Card Holders come in such as on a "Snow Day". There are several variations to this which are covered below. This application is based on the new Time Zone Linking features of the WinDSX 3.7 and higher software. It requires that all controllers in the location have a 1040 processor and firmware version 3129 or higher.

**Programming** – Here are the general programming parameters. You will have to substitute the appropriate Device, Input and Output addresses.

**Location** – Select "Enable Linking Logic" and "Enable Code to Linking Logic"

Device – Select "Device Used for Code to Linking Logic".

**Output** – Create a Virtual Output. This is an Output that does not physically exist but operates as if it did. This could be Output number 3 on the same Device where you are controlling the lock. Give this output no Time Zone and set the "State when Linked to" for Secure.

**Time Zone** – Create Time Zone "A" according to the lock/unlock schedule desired for the door and Select "Time Zone is ON when Linked to". Assign this Time Zone to the door lock Output number 1.

Create Time Zone "B" that has a Start Time the same as Time Zone "A" but with a Stop Time set for one minute later. Assign this Time Zone to the Virtual Output number 3.

Create Time Zone "C" that defines when a card can set the door to unlock by Time Zone. The start of time zone C would probably be within two hours prior to the time the door should unlock (stop time of time zone A) and should stop prior to the start time of Time Zone A. Keeping this window narrow keeps a card read after hours or the night before from inadvertently setting the door to unlock the next morning.

**Linking Group** – Create a new Linking Group "1". Of the Components to link to under Time Zone select the new Time Zone "A", select a 24 hour Time Zone and a Response of "Latch". Assign this Linking Group to the Virtual Output 3 and select "Perform Link On – Open".

Create another Linking Group "2". Of the Components to link to under Time Zone select the Time Zone "A", on the right select Time Zone "C" and a Response of "Time Zone".

**Linking Levels** – Create a Linking Level that associates the Device(s) that should accept the link and activate the above newly created Linking Group 2. This could be one or many devices.

**Operation** – When the door locks the Virtual Output 3 secures also. One minute later the Virtual Output 3 opens and activates the Linking Group 1 that consists of the time zone assigned to the door lock relay 1. The link forces the Time Zone to be On regardless of its schedule. Once a valid card read is received during the Time Zone 3 period at the device (s) specified in the Linking Level, it activates the second Linking Group that sets the Time Zone controlling the door lock back to its schedule.

## **Implementation –**

**Manager / Subordinate Rule** - For any Access Granted at a specific door to cause that door to unlock according to its unlock schedule, assign the Linking Level to all Card Holders. To implement this feature so that only Manager cards release the door to time zone, assign the Linking Level only to the Manager Cards. Other cards would still be granted access but not allow the door to unlock by Time Zone schedule. Be sure not to assign the Linking Level to any card you do not want to release the door to Time Zone - such as the cleaning crew.

### **Initiating Device**

In a situation where the manager or employee use an employee entrance but you want the public front door to be the one affected (released to Time Zone) set the Linking Level to associate the employee entrance device to the Linking Group instead of the public door device and Enable “Device Used for Code to Linking Logic” under the Device programming for that door. The Device used to release a door to Time Zone could be any or all Devices in the system or any combination of Devices.

### **Multiple Door / Schedule Implementations**

More than one door could be controlled in this manner by assigning Time Zone A to as many Output 1's as desired. These doors (outputs) would all follow the same unlock schedule and would have the same Snow Day operation. If required multiple Time Zones could be created to control different doors with different schedules. Define them to be On when linked to and insert them into Linking Group 1 and 2 just like Time Zone A.

### **Snow Day Activation**

To this point the application covers tomorrow. That is what happens when it snows all night or for some reason nobody shows up to the store or office tomorrow. Sometimes the weather or emergency dictates that the office or store be closed early. There are several implementations for triggering the system to lock the doors now and enact the Snow Day feature immediately. This could be done with a push button, special card or special keypad code. To do this, create a linking group 3 that consists of the Virtual Output 3. Use a 24 hour time zone for the conditional time zone in the linking group and set the response to pulse for 5 seconds. Assign this new linking group 3 to the input with the push button or create a linking level that relates the initiating devices (reader/keypad) to the new linking group. Assign the lock down linking level to a special card or keypad code. When the card/code is used at the appropriate device(s) it pulses the virtual output 3 which links the Time Zone A's On, thereby securing all of the outputs that are under its control.