



# TWO MAN RULE APPLICATION

## OVERVIEW

Two Man Rule requires an authorized Card read from two separate Card Holders before access is granted.

### Requirements:

- One Reader Port.
- One Relay Output.
- WinDSX Software Version 3.7 and higher.
- All Controllers in the Location have a 1040 Processor and Firmware Version 3129 or higher.

## PROGRAMMING

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”
- De-select “Link Granted events to Output 1”
- Set the “Timed Anti-passback Delay” to 15 seconds.

### Output

- Edit Output 1 that controls the lock
- Confirm a Time Zone is in place to lock the door.
- Set “State When Linked to” to be “Open”

### Virtual Output

- Create a new Virtual Output 3 and assign no Time Zone
- Set “State When Linked To” to be “Secure”
- Set “Perform Link When” to “Secure”

### Time Zone

Create a 0-0 Time Zone. Select “Time Zone is ON when linked to”

### Linking Group

Create two new Linking Groups named A and B

#### Linking Group A

- Under Outputs, select the Output 1 to be controlled.
  - On the right, select the new 0-0 Time Zone and a Response Type of “Pulse - 5 seconds”
- Select the new Virtual Output 3
  - Select a 24-hour Time Zone and a Response Type of “Pulse - 5 seconds”

#### Linking Group B

- Select the new 0-0 Time Zone. On the right, assign a 24 hour Time Zone.
- Assign a Response Type of “Pulse -5 seconds”
- Assign this Linking Group to the Virtual Output 3

**Note:** The Pulse Time can always be adjusted for optimal performance. Confirm that the Timed Anti-Passback is greater than both Pulse Times added together.

### Linking Levels

Create a Linking Level that associates the Device (Reader) for the Two Man Rule to Linking Group A that contains the two Outputs.

## IMPLEMENTATION / OPERATION

### Any two Card Holders to operate the Two Man Rule

Assign the Linking Level to all Card Holders.

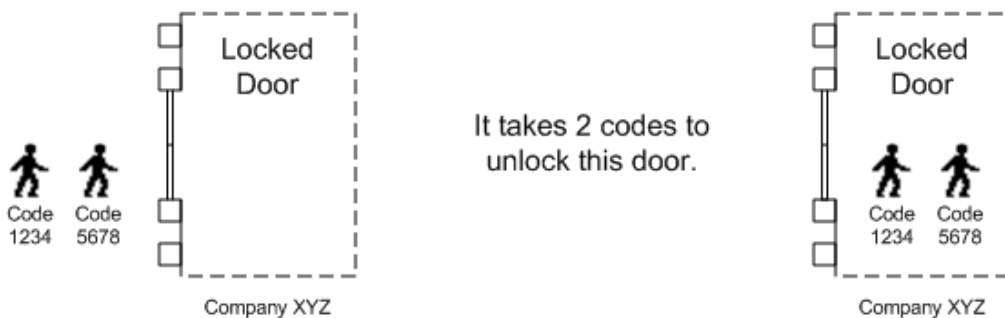
Two Card Holders will have to be granted access at the Door for either Card Holder to gain entry.

The order of the Cards presented does not matter.

### Manager/Subordinate (1 Person from Group A and 1 from Group B Implementation)

- Separate the components of Linking Group A (the Output 1 and the Virtual Output) into two separate Linking Groups with two separate Linking Levels.
- Assign the Linking Level that activates the virtual Output Card Holder Group A. This group is required to present their Card first at the Device.
- Assign the Linking Level that activates Output 1 to Card Holder Group B. This group is required to present their Card second at the Device.

Timed Anti-passback is not required when configured for manager/subordinate implementation.



### Standard Egress (Exit Without Two Man Rule)

For standard egress from the high security area without requiring both Card Holders to exit.

Program a Linking Group consisting of Output 1 with a 24-hour Time Zone and a Response of Pulse 5 seconds.

Assign this Linking Group to Input 8.

Set Input 8 to Link on a Status Change (Input 8 does not require a Time Zone).

### Two Man Rule Entry AND Exit (Variation 1)

When the Two Man Rule is required for both entry and exit, duplicate the setting above for Time Zones and Linking Groups, but combine the Linking Groups into the Linking Level built for the first Door.

The In and Out Readers of the same Door should be connected to Side A and B of the same Controller.

The Relay Output 1 of Side B should be connected to the Request to Exit Input of Side A.

Input 7 & 8 of Side B should be strapped out with the 1K resistor.

The Side B unlock time is set to 1 second.

This is building on the Standard Egress option above.

### Single Man or Two Man Rule Dependent on Time Schedule (Variation 2)

The Door can be set to operate as a normal single man Door during one part of the day and as a Two Man Door during another part of the day. Simply change the 0-0 Time Zone(s) so that the Start Time is the beginning of the Single Man operation, and the Stop time is the beginning of the Two Man Rule operation.

This only applies to "Any Two Card Holders" operation. It will not work with Manager/Subordinate implementation.

## LED CONTROL

Using a 1042 Controller, move the LED control line from the Reader Port to Output 2.

Output would have no Time Zone and programmed to Link "Secure".

Create a Linking Group consisting of Output 2 with a 24-hour Time Zone and set to "Follow".

Assign the Linking Group to Output 1 and set it to "Link on Open".