“Alhambra Relays” node

I/O Port Connections:

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | Output active low | AF\_Relay01 |  |
| 2 | Output active low | AF\_Relay02 |  |
| 3 | Output active low | AF\_Relay03 |  |
| 4 | Output active low | AF\_Relay04 |  |
| 5 | Output active low | AF\_Relay05 |  |
| 6 | Output active low | AF\_Relay06 |  |
| 7 | Output active low | AF\_Relay07 |  |
| 8 | Output active low | AF\_Relay08 |  |
| 9 | Output active low | AF\_Relay09 |  |
| 10 | Output active low | AF\_Relay10 |  |
| 11 | Output active low | AF\_Relay11 |  |
| 12 | Output active low | AF\_Relay12 |  |
| 13 | Output active low | AF\_Relay13 | Intermodal DCC Power |
| 14 | Output active low | AF\_Relay14 | AFW Temp DCC Power |
| 15 | Output active low | AF\_Relay15 |  |
| 16 | Output active low | AF\_Relay16 |  |

Common Events:

|  |  |
| --- | --- |
| 02.01.57.00.02.A8.00.62 | Global on |
| 02.01.57.00.02.A8.00.63 | Global off |
|  |  |
| 05.01.01.01.3C.00.00.10 | Enable remote Alhambra East |
| 05.01.01.01.3C.00.00.11 | Disable remote Alhambra East |
| 05.01.01.01.3C.00.00.12 | Enable remote Alhambra West |
| 05.01.01.01.3C.00.00.13 | Disable remote Alhambra West |

Line Configuration

Line Consumers:

|  |  |  |  |
| --- | --- | --- | --- |
| 1 | On | Line Specific Event ID | Line-specific on |
| 2 | Off | Line Specific Event ID | Line-specific off |
| 3 | On | 02.01.57.00.02.A8.00.62 | Global on |
| 4 | Off | 02.01.57.00.02.A8.00.63 | Global off |
| 5 | Toggle | Line Specific Event ID | Line-specific toggle |
| 6 |  |  |  |

Line Producers:

|  |  |  |
| --- | --- | --- |
| 1 | Output On | Line Specific Event ID |
| 2 | Output Off | Line Specific Event ID |
| 3 |  |  |
| 4 |  |  |
| 5 |  |  |
| 6 |  |  |

A diagram of a relay line

Description automatically generated

Conditional Configuration

Logic 1-16 match to lines 1-16 for disable/enable remote Alhambra East.

Logic 17-32 match to lines 1-16 for disable/enable remote Alhambra West.

Variable 1 holds the veto state: True allows the vetoed toggle event ID to work by forwarding a non-vetoed toggle.

Variable 2 triggers when the vetoed toggle event arrives, then if V1 is true it produces the Toggle event ID to toggle the output.

Description: AF\_RelayNN AFE/AFW control

Function: Last (Single)

Variable #1:

Trigger: On Matching Events

Source: Use Variable #1’s (C) Events

Set True (C): enable remote Alhambra East/West event ID

Set False (C): disable remote Alhambra East/West event ID

Logic Operation: V1 and Then V2 => true

Variable #2:

Trigger: On Matching Events

Source: Use Variable #2’s (C) Events

Set True (C): line-specific AFE/AFW vetoed toggle

Action:

When true: Send then Exit Group

When false: Exit Group

Action:

Action 1:

Condition: Immediate if True

Destination: Use Action (P) Event

Action Event (P): the line-specific Toggle event ID from line consumer 5