CLIPSAL
INTEGRATED SYSTEMS

NOTE #: 06-017 -1

DATE: 31 January 2006

KEY WORDS:

APPLICATION NOTE

SHARING INTELLIGENT SOLUTIONS

Title:	C-Bus Run On Timers
Products Applicable:	C-Bus

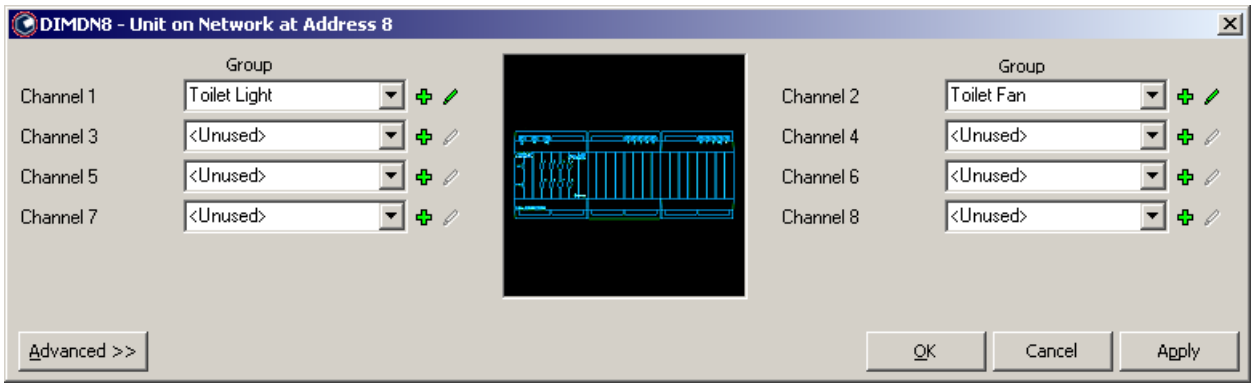
This Application Note documents how to setup run on timers in C-Bus. This is particularly useful in programming applications where lights and an exhaust fans turn on together, but turn off at different times.

Key Switch Run On Timer

This example will take a C-Bus 1 key input unit and configure a run on timer scenario.

Scan the C-Bus network. First of all program the output unit with the circuits you wish to control. For this example they will be: -

- Toilet Light
- Toilet Fan



Open the GUI for the input unit and click the advanced button. Select the Blocks tab and configure it as follows: -

Key Configuration

- Configure the key *function* to a Timer.

Block 1

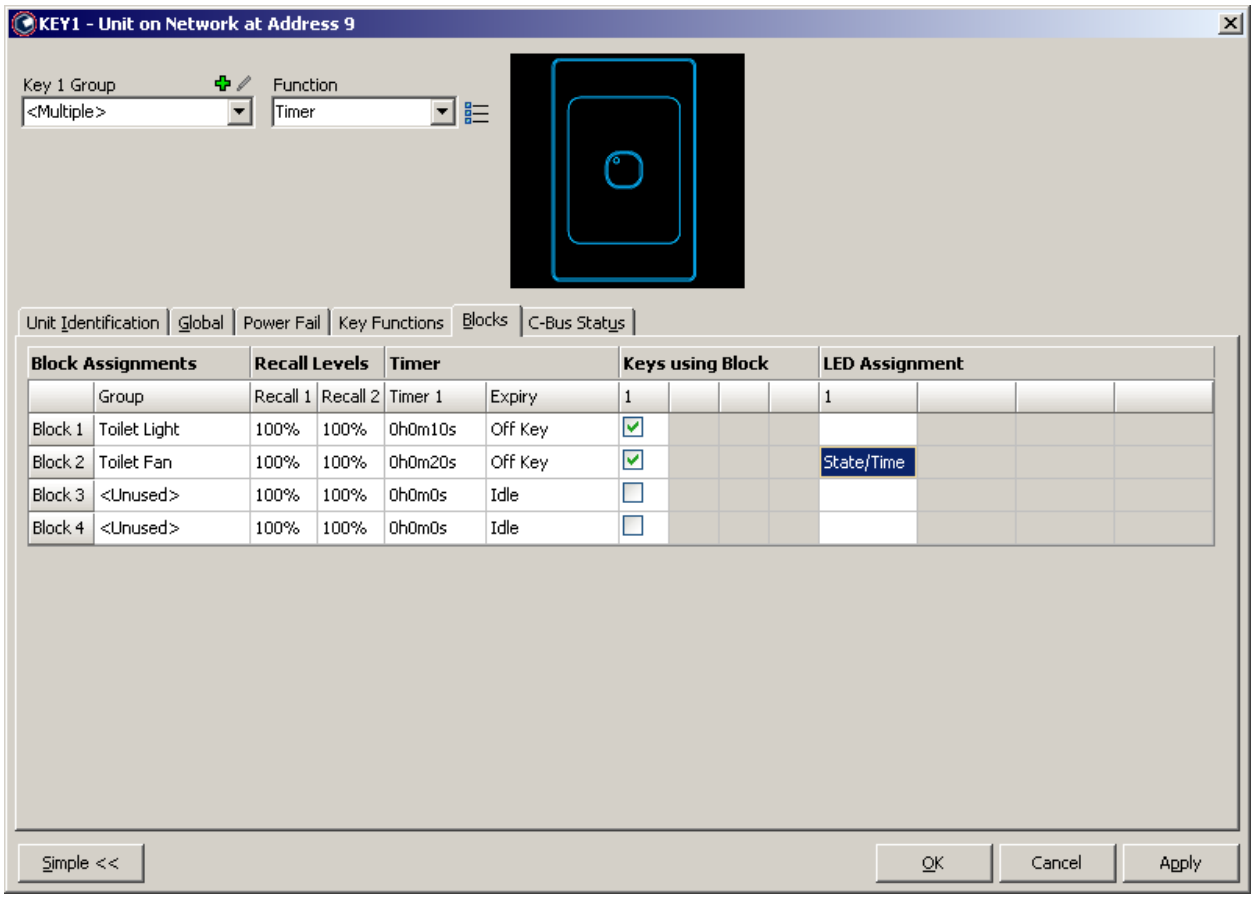
- Enter Toilet Light into Block 1 Group.
- Set the *Timer 1* period for Block 1.
- Set the *Expiry* for the Block 1 timer to Off Key.
- Ensure *Keys using block* is selected for Block 1.

Block 2

- Enter Toilet Fan into Block 2 Group.
- Set the *Timer 1* period for Block 2 (this must be longer than the timer for block 1)
- Set the *Expiry* for the Block 2 timer to Off Key.
- Ensure *Keys using Block* is selected for Block 2.
- Set the *LED Assignment* to State/Timer on Block 2.

Save

- Save and Exit.



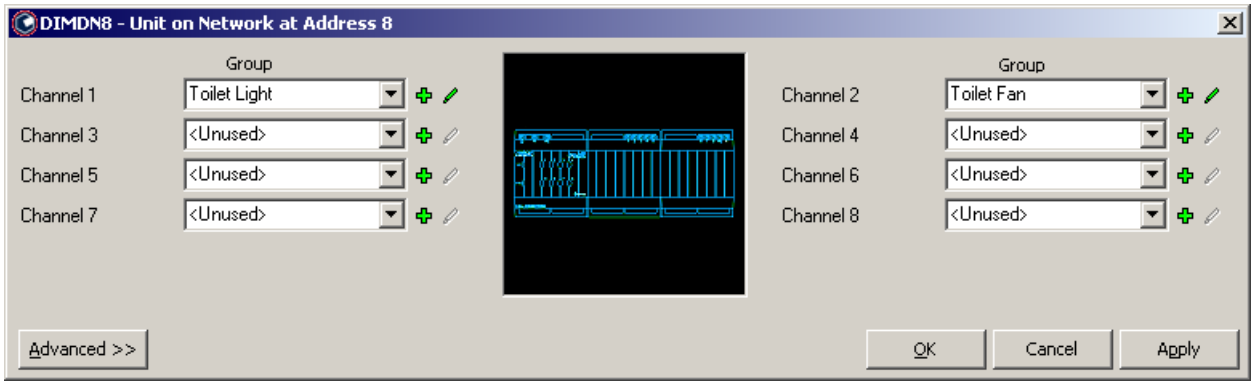
Operation: - When the key is pressed, both lights will turn on together. After 10 seconds the toilet light will turn off, while the toilet fan continues to run. After a further 10 seconds (20 seconds all up) the fan will turn off.

PIR Run On Timer

This example will take a C-Bus PIR input unit and configure a run on timer scenario.

Scan the C-Bus network First of all program the output unit with the circuits you wish to control. For this example they will be: -

- Toilet Light
- Toilet Fan



Open the GUI for the input unit and click the advanced button. Select the Blocks tab and configure it as follows: -

Block 1

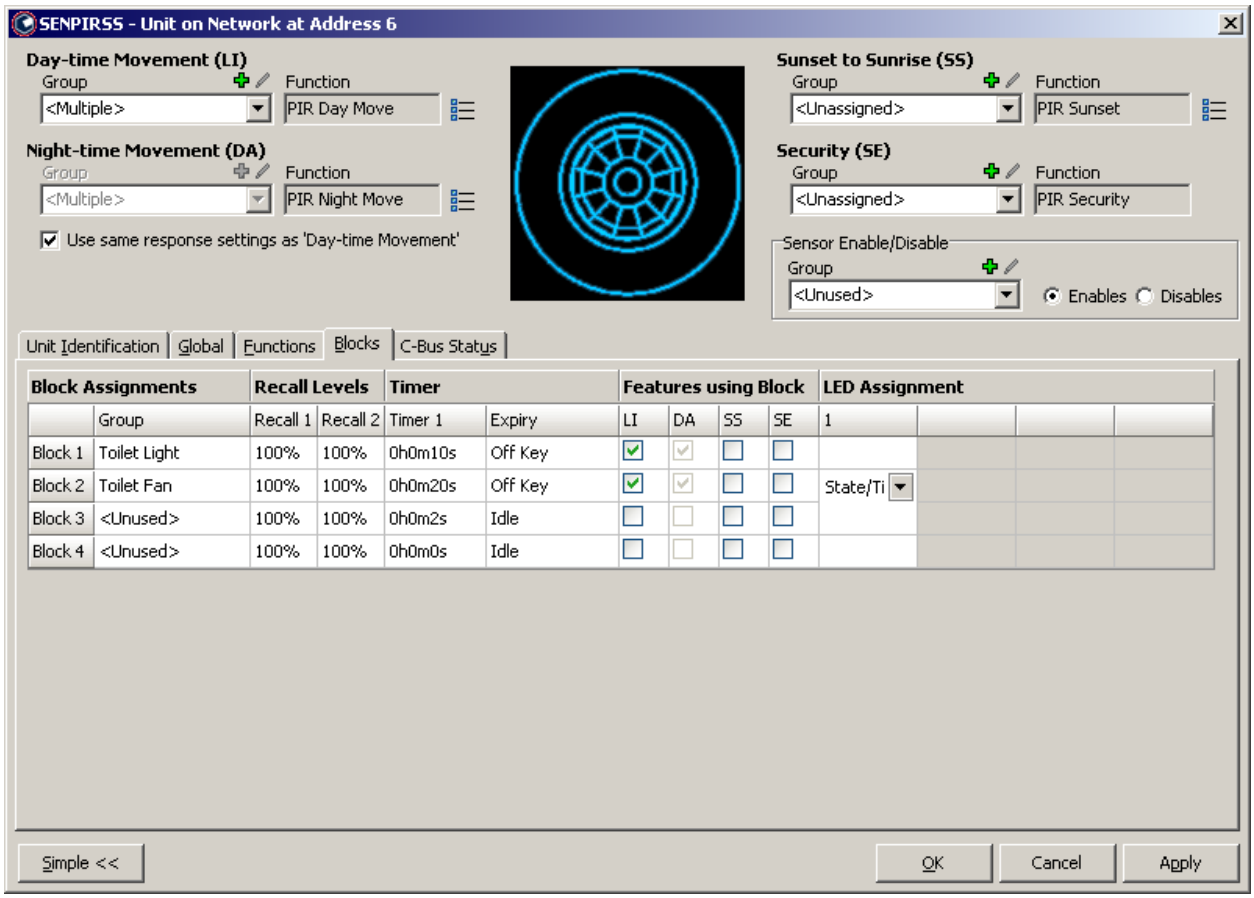
- Enter Toilet Light into Block 1 Group.
- Set the *Timer 1* period for Block 1.
- Set the *Expiry* for the Block 1 timer to Off Key.
- Ensure *Keys using block* is selected for Block 1 (LI).

Block 2

- Enter Toilet Fan into Block 2 Group.
- Set the *Timer 1* period for Block 2 (this must be longer than the timer for Block 1)
- Set the *Expiry* for the Block 2 timer to Off Key.
- Ensure *Keys using Block* is selected for Block 2 (LI).
- Set the *LED Assignment* to State/Timer on Block 2.

Save

- Save and Exit.



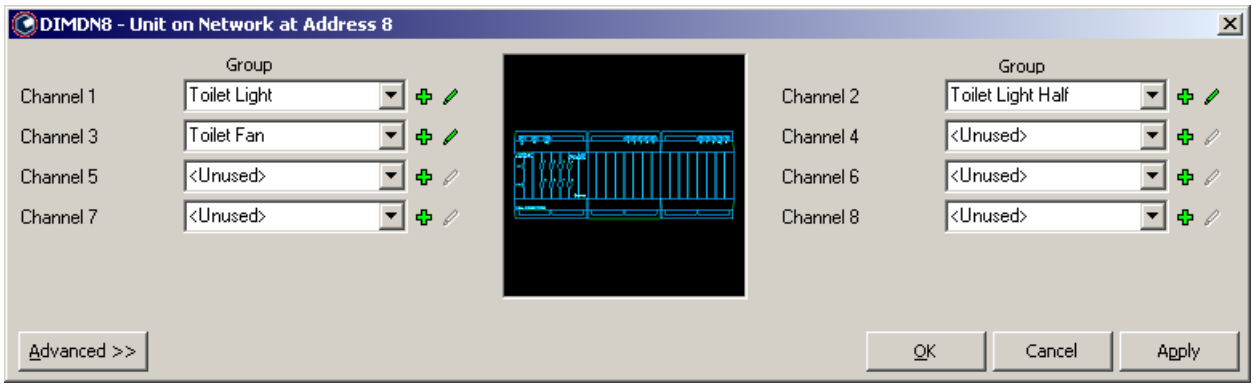
Operation: - When the PIR is triggered, both lights will turn on together. After 10 seconds the toilet light will turn off, while the toilet fan continues to run. After a further 10 seconds (20 seconds all up) the fan will turn off.

Run On Timer With Half Lights

This example will take a C-Bus PIR input unit and configure a run on timer scenario. This will also overcome any possible problems with Occupational Health & Safety.

Scan the C-Bus network First of all program the output unit with the circuits you wish to control. For this example they will be: -

- Toilet Light
- Toilet Light Half
- Toilet Fan



Open the GUI for the input unit and click the advanced button. Select the Blocks tab and configure it as follows: -

Block 1

- Enter Toilet Light into Block 1 Group.
- Set the *Timer 1* period for Block 1.
- Set the *Expiry* for the Block 1 timer to Off Key.
- Ensure *Keys using block* is selected for Block 1 (LI).

Block 2

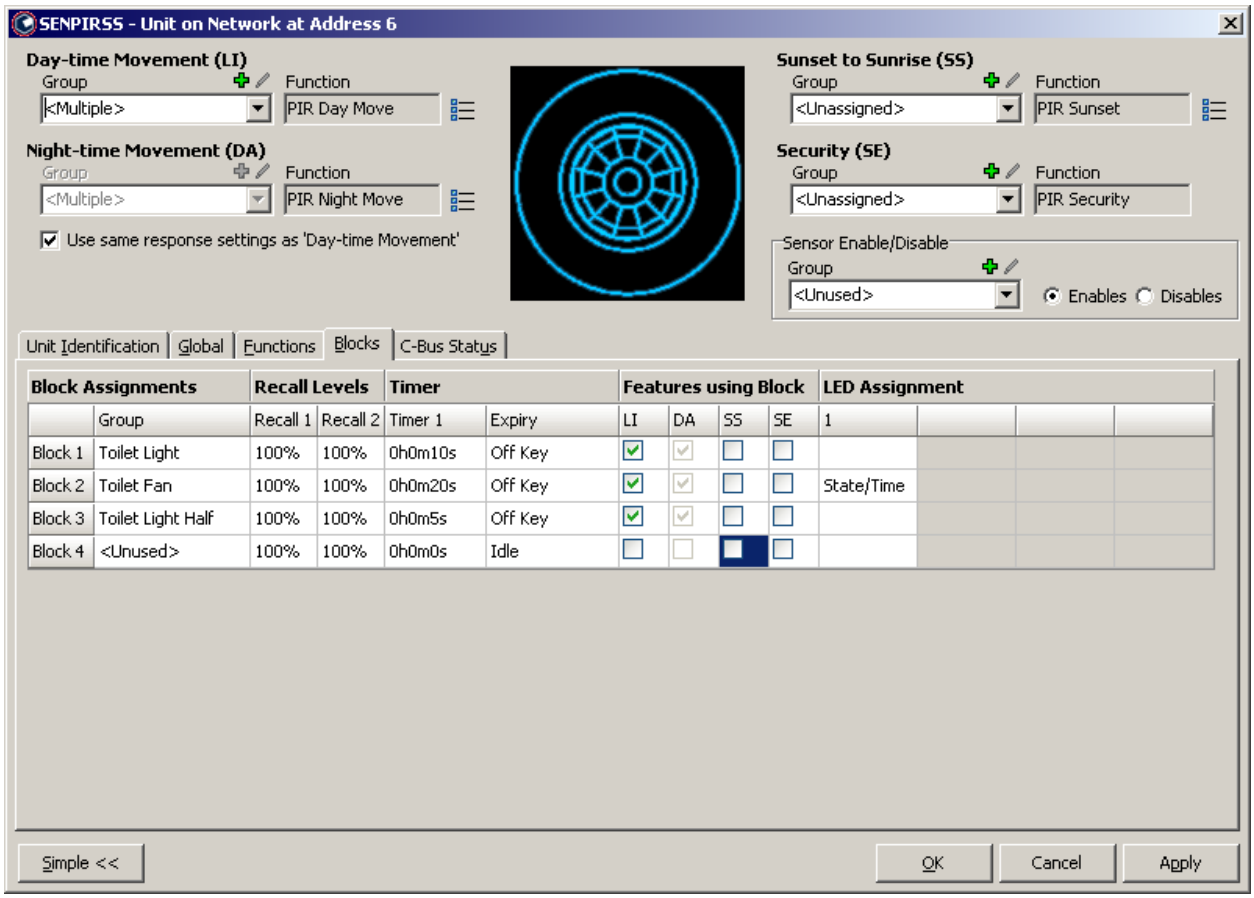
- Enter Toilet Fan into Block 2 Group.
- Set the *Timer 1* period for Block 2 (this must be longer than the timer for Block 1)
- Set the *Expiry* for the Block 2 timer to Off Key.
- Ensure *Keys using Block* is selected for Block 2 (LI).
- Set the *LED Assignment* to State/Timer on Block 2.

Block 3

- Enter Toilet Light Half into Block 3 Group.
- Set the *Timer 1* period for Block 3 (this bust be before the Block 1 turn off).
- Set the *Expiry* for the Block 3 timer to Off Key.
- Ensure *Keys using block* is selected for Block 3 (LI).

Save

- Save and Exit.



Operation: - When the PIR is triggered, all three loads will turn on together. At the 5 second point, one of the lighting circuits (Toilet Lights Half) will turn off. This will indicate to anybody in the room, that the all the lights are about to turn off. After another 5 seconds the rest of the toilet lights will turn off (Toilet Light), while the toilet fan continues to run. After a further 10 seconds (20 seconds all up) the fan will turn off.

Technical Support and Troubleshooting

For technical assistance call: 1300 722 247 (Australia)
0800 888 219 (New Zealand)

CIS web site: http://www.clipsal.com/cis/