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SentinelC™

Users Manual

Rev E

System Requirements

- ✓ OS: Windows XP SP3 or higher

- ✓ Software Framework: .NET Framework 4.0

- ✓ CPU: Intel Core2 or later

- ✓ Storage: 20MB

- ✓ Additional Details: USB 2.0 or higher (one available controller per gateway)

Installing the Sentinel C Dashboard

- Click on "SentinelDashboardInstall" on the supplied Sentinel System Flashdrive.
- Click run.
- Follow wizard.

| Name	Type	Compressed size	Password ...	Size
SentinelDashboardInstall	Windows Installer Package	5,691 KB	No	
setup	Application	193 KB	No	

Opening the Dashboard

Upon opening the dashboard the Gateway will load it's contents.

Without the gateway attached the dashboard will not open.

Home Screen

The home screen allows navigation between the three main menus of Sentinel C. The Groups, Scheduling and Energy menus.

Groups Menu

The groups menu has three main tabs
- Home Tab
- File
- Manual Tab
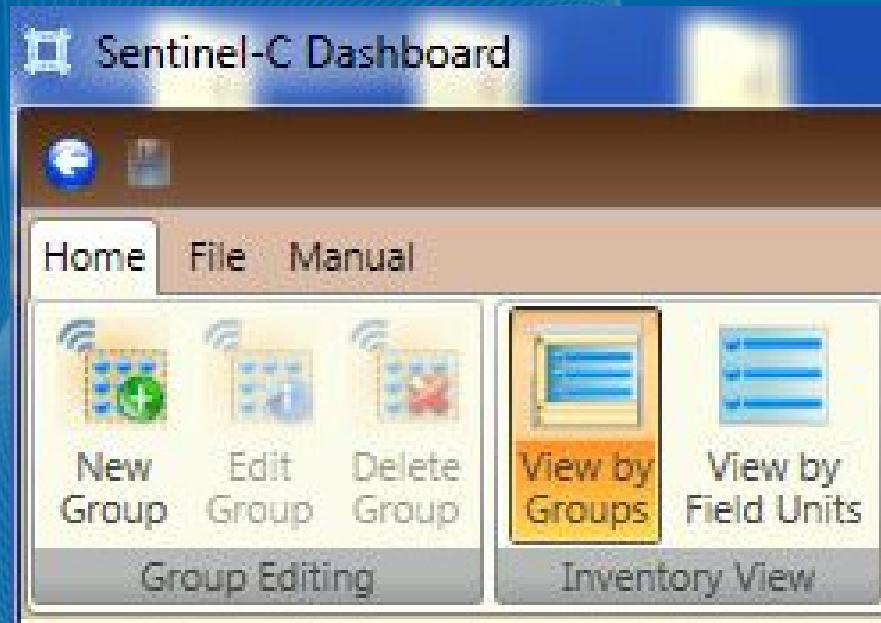
Home Tab

The Home tab has two different views

View by Groups   and   View by Field Units
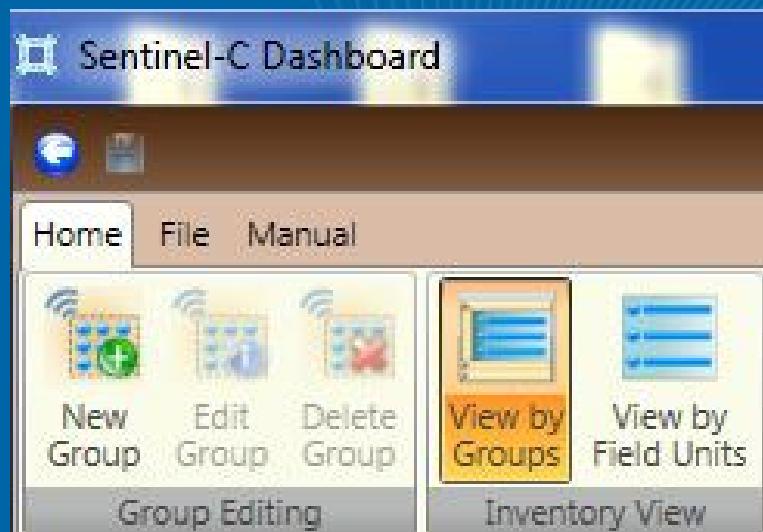
View by Field Units

Gives you a list of all field units in inventory and allows you to add, edit, or delete field units from the dashboard.

Field Units:

Pole	Group	Serial Number	Model	Description	Last Status Update	Temperature	Controlled By	Status	Power	Voltage	Current
1	▼	0FD50BA846B4D967	1	1	1/7/2013 10:46:07 AM	0.0 C	Photo Cell	OFF	0 W	0 V	0 A
100	▼	028101C646B4D967	100	100	1/7/2013 10:39:54 AM	0.0 C	Photo Cell	OFF	0 W	0 V	0 A
101	▼	00F704B646B4D967	101	101	1/7/2013 10:39:54 AM	0.0 C	Photo Cell	OFF	0 W	0 V	0 A
102	▼	02DA096F46B4D967	102	102	1/7/2013 10:39:54 AM	0.0 C	Photo Cell	OFF	0 W	0 V	0 A
103	▼	079D0C5546B4D967	103	103	1/7/2013 10:39:54 AM	0.0 C	Photo Cell	OFF	0 W	0 V	0 A
104	▼	00150E8646B4D967	104	104	1/7/2013 10:39:54 AM	0.0 C	Photo Cell	OFF	0 W	0 V	0 A
2	▼	03A40D9046B4D967	2	2	1/7/2013 10:46:07 AM	0.0 C	Photo Cell	OFF	0 W	0 V	0 A
3	▼	08C605D946B4D967	3	3	1/7/2013 10:46:07 AM	0.0 C	Photo Cell	OFF	0 W	0 V	0 A
4	▼	085502E946B4D967	4	4	1/7/2013 10:46:07 AM	0.0 C	Photo Cell	OFF	0 W	0 V	0 A
5	▼	029808104B6B4D967	5	5	1/7/2013 10:46:07 AM	0.0 C	Photo Cell	OFF	0 W	0 V	0 A
6	▼	02F3044246B4D967	6	6	1/7/2013 10:46:07 AM	0.0 C	Photo Cell	OFF	0 W	0 V	0 A
7	▼	034B0D5F46B4D967	7	7	1/7/2013 10:46:07 AM	0.0 C	Photo Cell	OFF	0 W	0 V	0 A
8	▼	04F200DF46B4D967	8	8	1/7/2013 10:46:07 AM	0.0 C	Photo Cell	OFF	0 W	0 V	0 A
9	▼	034B0E4546B4D967	9	9	1/7/2013 10:46:08 AM	0.0 C	Photo Cell	OFF	0 W	0 V	0 A

Adding a New Field Unit

1. Click New field unit button

2. Enter the information from the supplied inventory sheet for the NVID and Serial Number along with the pole number, model, and description you wish to give the unit into the Field Unit Properties window.

3. Click ok.
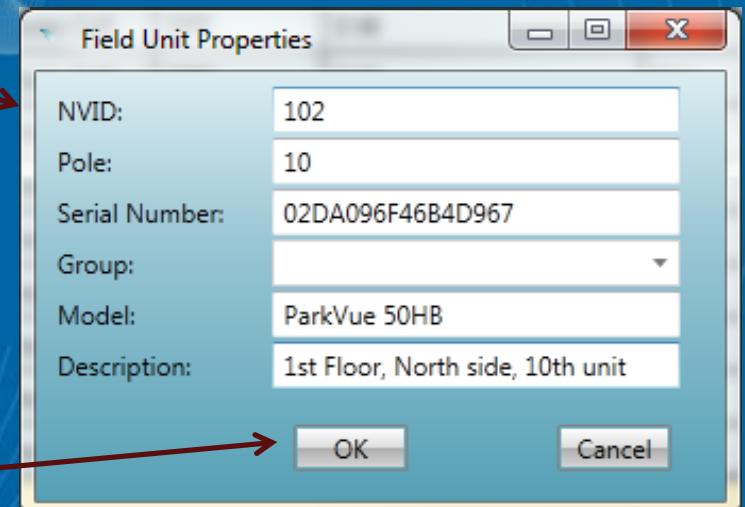
Editing and Deleting a Field Unit

To edit or delete a field unit in the dashboard click to highlight the desired field unit and select **Edit Field Unit** or **Delete Field Unit** from the Field Unit Editing ribbon.

(This can also be done by right-clicking the highlighted field unit)

View by Groups

- Allows you to View all of the groups, add, edit and delete groups.

- You can also expand each group individually and see which field units are in that group by clicking the + next to the group name.

Adding new groups

1. Click the new group button in the group editing ribbon.

2. Name the group and Select what units you wish to be in that group. (If the unit is already in another group it will be pulled from that group and placed in the new group).

3. Click ok.
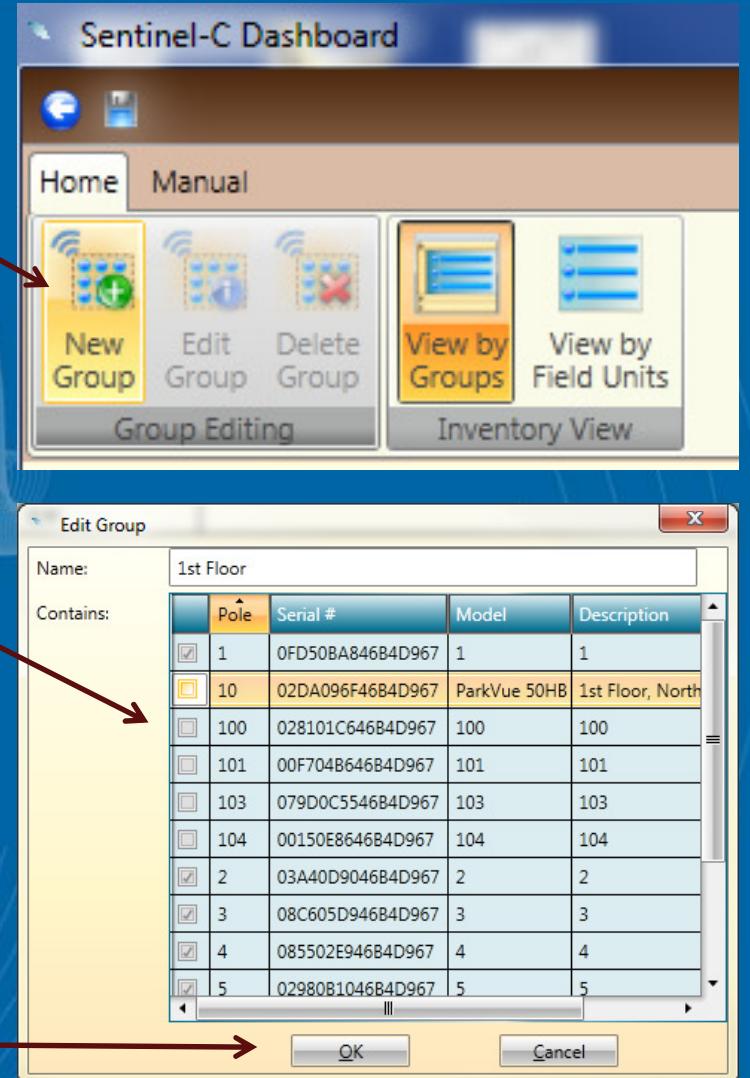
Editing and Deleting a Group

To edit or delete a group in the dashboard click to highlight the desired field unit and select **Edit Group** or **Delete Group** from the Group Editing ribbon.

(This can also be done by right clicking the highlighted group.)

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Editing or Deleting an Individual Field Unit in a Group

1. Expand the group and highlight the desired field unit

2. Right click the highlighted Field unit and click Edit Field Unit or Remove Field unit. (when removing a field unit it will only remove it from the group but will keep it in the field unit inventory list)
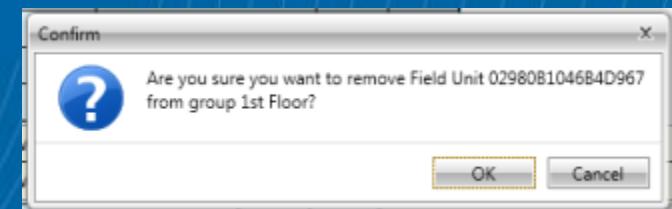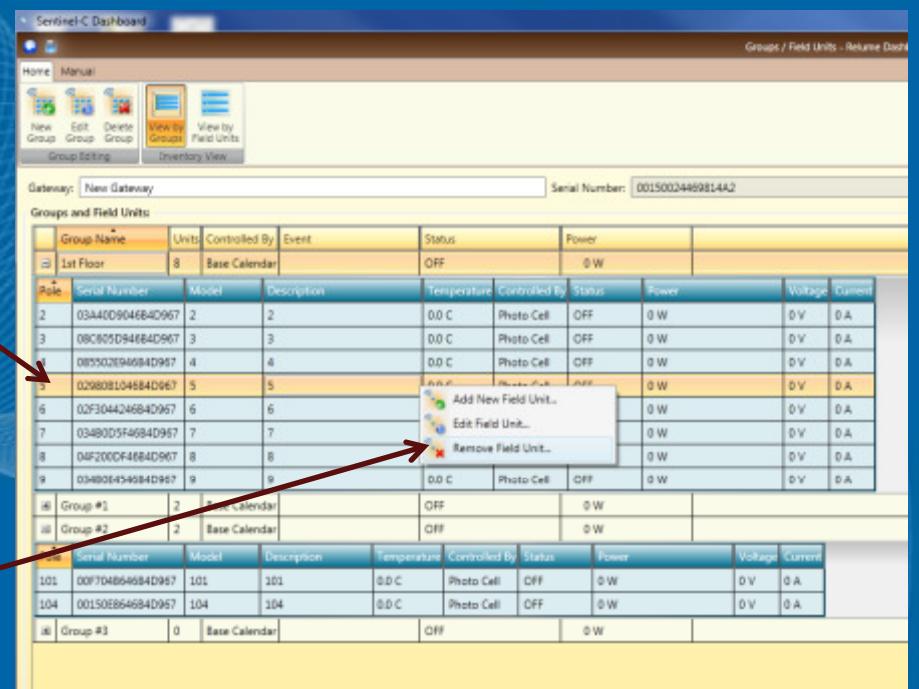
Navigating Back to the Home Screen

To navigate back to the home screen from either the groups or schedule window click the back arrow in the upper left corner of the window.
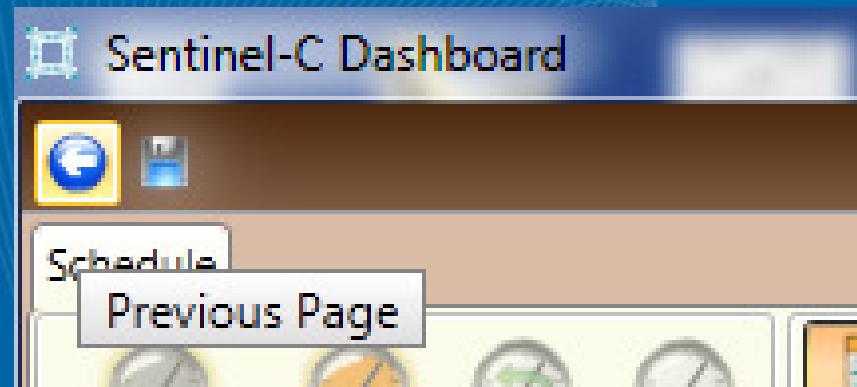
Scheduling

Sentinel C has two different types of events that can be scheduled:

- **Events** are used for abnormal operation patterns (i.e. one time events or yearly events where the lights need to perform a different task other than what's normally scheduled.)

- **Base events** are used for everyday lighting applications. Things that the lights will do on a daily basis, weekly basis or normal operation patterns.

Scheduling Restrictions

- All events can span a period of 23.75 hours
- Base calendar events for the same group cannot overlap each other
- Event calendar events for the same group cannot overlap each other
- Event calendar events can be scheduled over Base calendar events and will **always** take precedence.

(Any scheduling restriction that Sentinel C has, the dashboard will not let you complete the attempted scheduling conflict.)

Creating a New Event or Base Event

1. Click new Base Event or New Event in the Edit Event Schedule ribbon. This will bring up the Event window.
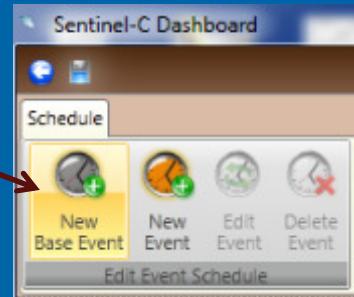
Base Calendar
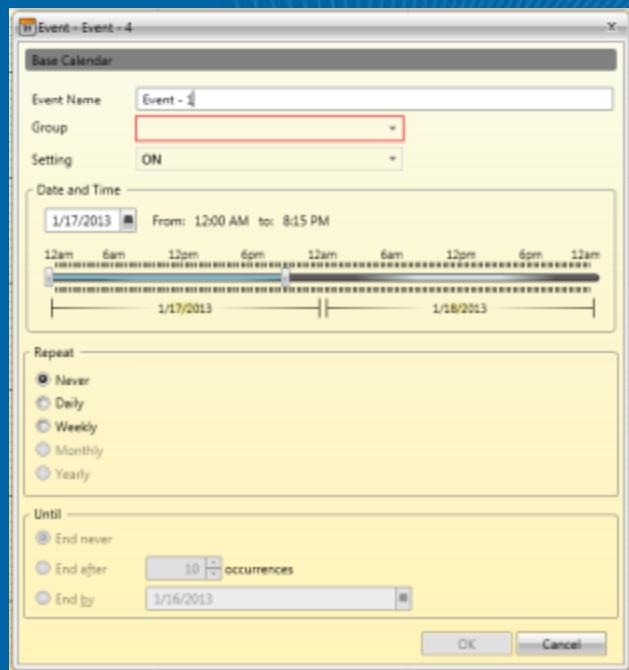
Event Calendar
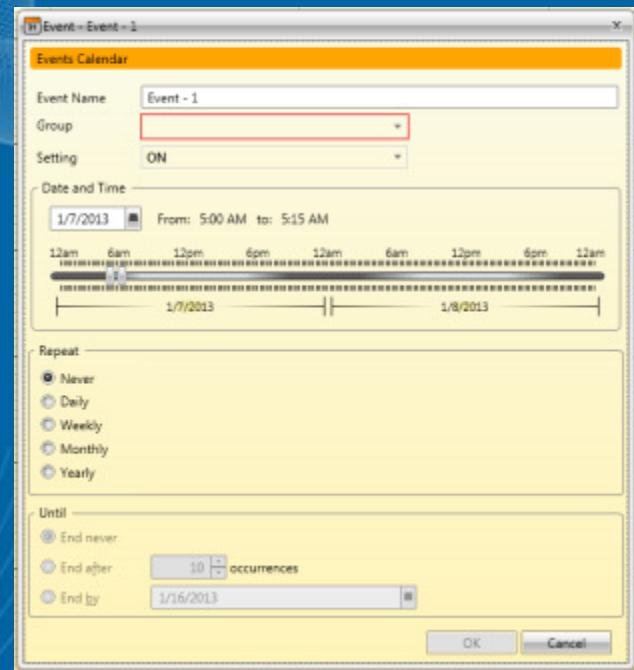
Creating a New Event or Base Event

2. Name the event.

Event Name | Event - 1

3. Select the group from the drop-down menu.

Base Calendar

Event Name	Event - 1
Group	
Setting	Group #1
	Group #2
Date and Time	Group #3
1/12/2013	1st Floor

4. Select the setting (or state) of the event from the drop-down menu.

Event Name	Event - 1
Group	
Setting	ON
Date and Time	OFF
	ON
1/12/2013	DIM 12 %
	DIM 25 %
12am 6am	DIM 37 %
	DIM 50 %
	DIM 62 %
	DIM 75 %
Repeat	DIM 87 %
Never	

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Creating a New Event or Base Event- Setting Date

5. Set the date the event is to start.
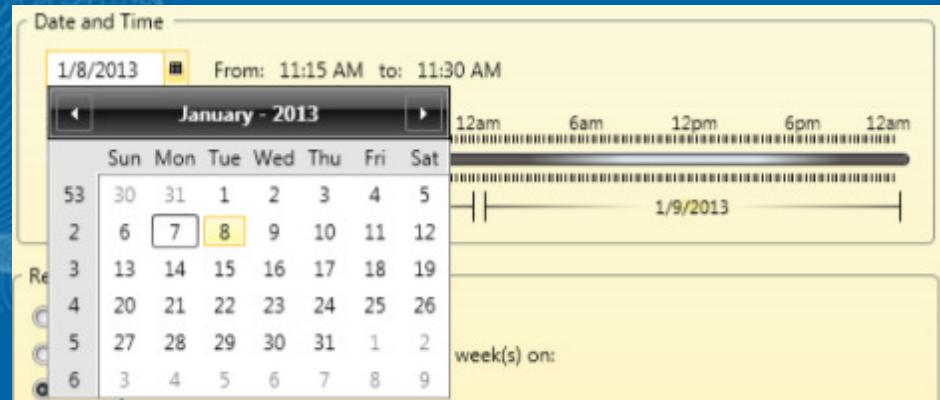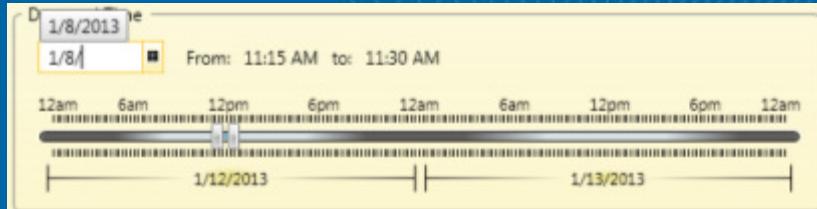
You can manually enter the date or select the date from the calendar by clicking the calendar icon.

6. Set the time the event is to start and stop by dragging the left and right buttons on the timeline.
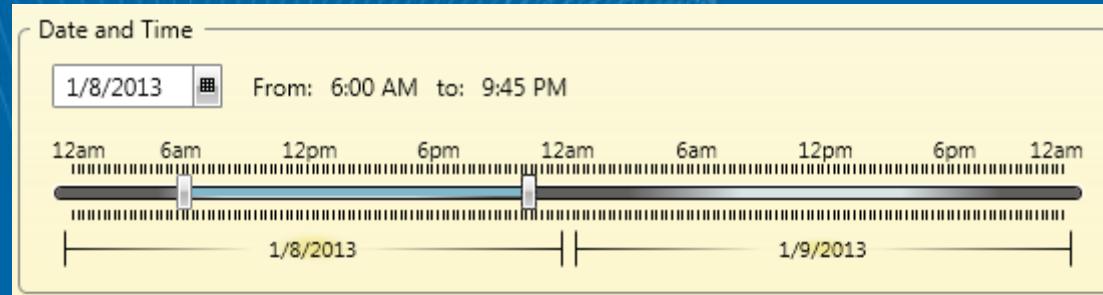
Events are scheduled in 15 minute increments.

Creating a New Event or Base Event

7. Set when you would like the event to Repeat

   Base events can reoccur daily or weekly
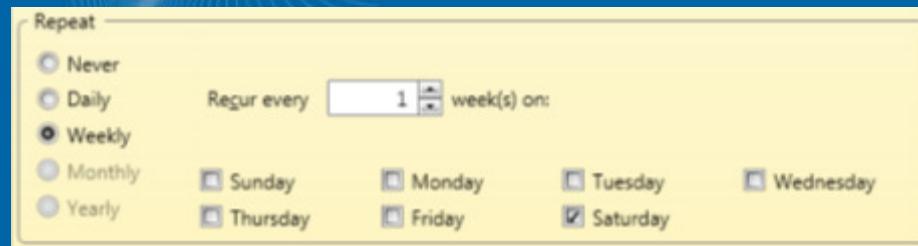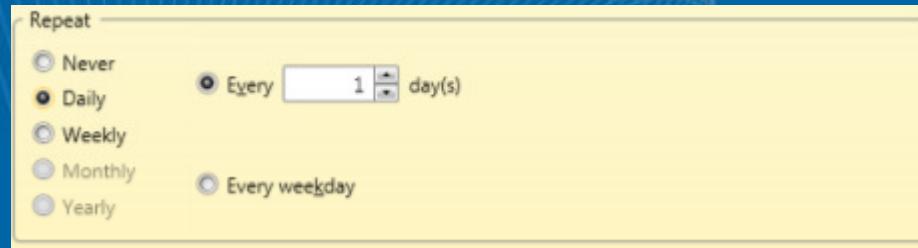
7. Set when you would like the event to Repeat

Events can reoccur daily, weekly, monthly or yearly

8. Set when you wish the event to end.

   You can set it to:
   - Always repeat
   - End after a certain number of recurrences
   - End by a certain date.
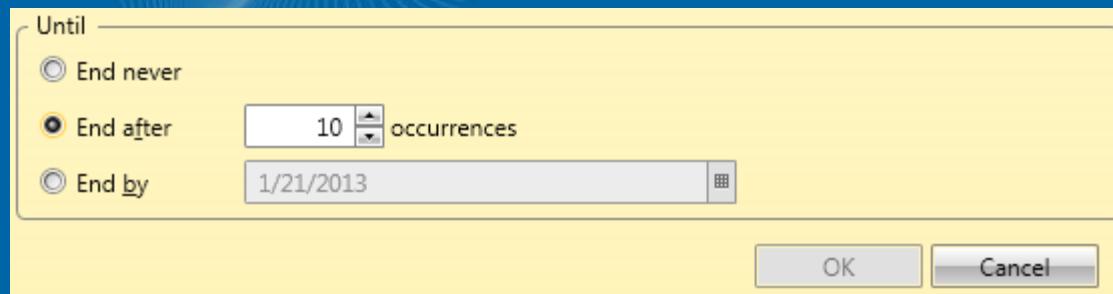
Viewing Your Event Schedule

- There are two different views in the Event Schedule
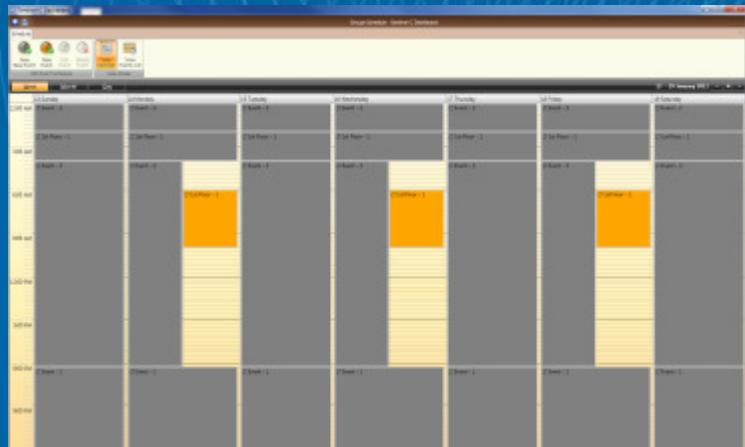
Calendar View
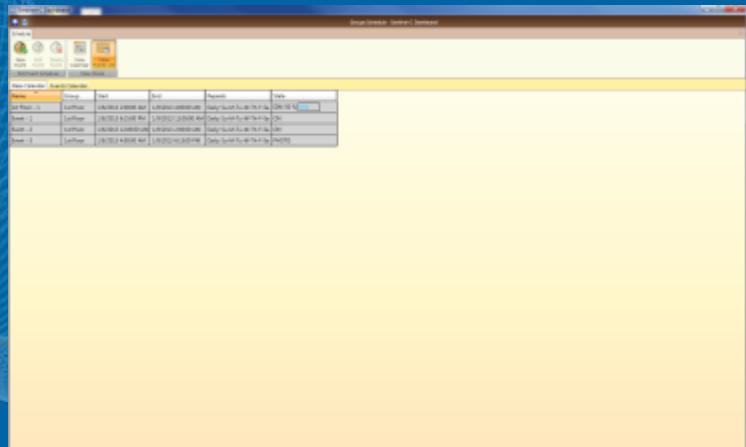
List View

- You can navigate between these views using the **View Mode** ribbon.
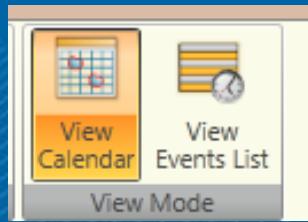
View Mode Ribbon

Viewing Your Event Schedule - Calendar View Navigation

- All navigation in Calendar view is done with the top ribbon.
- Calendar View gives you the option of viewing by week, month, or day.
- Navigation between dates is done with the date arrow keys and calendar icon.

# Viewing Your Event Schedule – Calendar View By Week

Allows you to see every event scheduled for an entire week
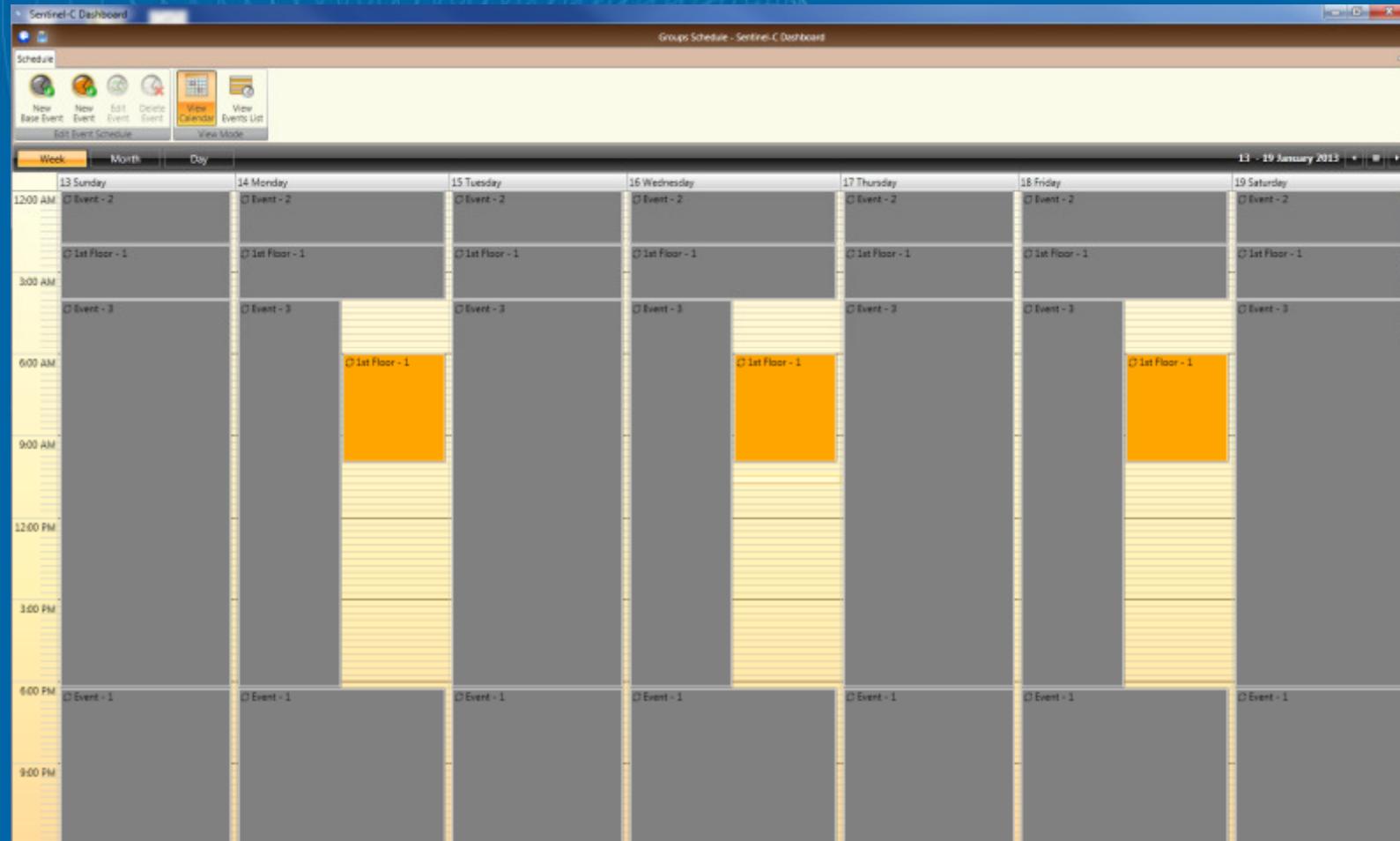
# Viewing Your Event Schedule – Calendar View By Month

Allows you to view the events for an entire month
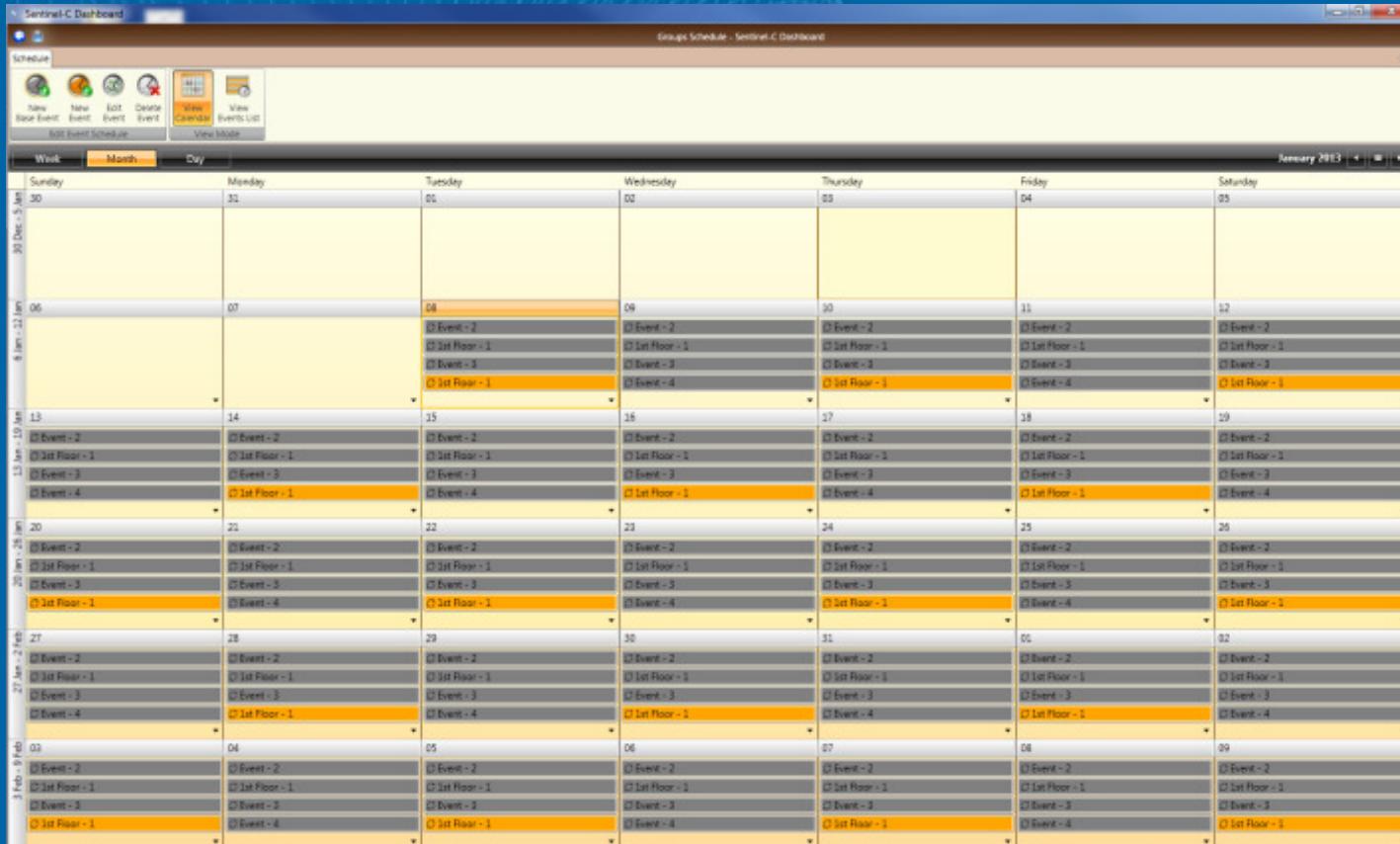
Viewing Your Event Schedule- Calendar View By Day

Allows you to view a single day of scheduling
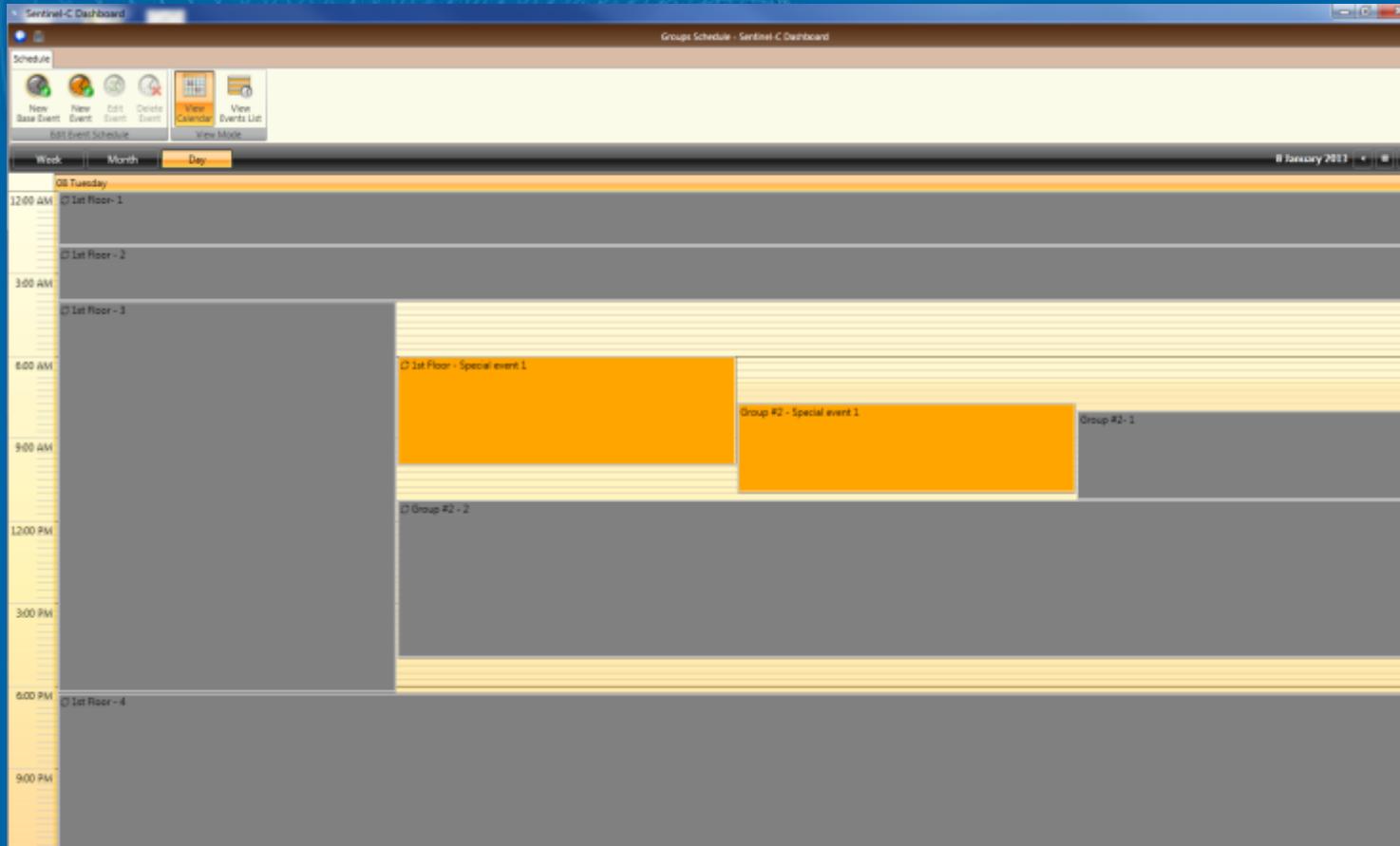
(Notice the overlapping)

Viewing Your Event Schedule- List View

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List View shows a list of every event scheduled. This is broken down into Base Calendar events and Events Calendar events. Navigate between the two with the Base Calendar Tab and the Events Calendar tab.

Base Calendar	Events Calendar				
Name	**Group**	**Start**	**End**	**Repeats**	**State**
1st Floor - 2	1st Floor	1/8/2013 2:00:00 AM	1/8/2013 4:00:00 AM	Daily: Su-M-Tu-W-Th-F-Sa	DIM 50 %
1st Floor - 3	1st Floor	1/8/2013 4:00:00 AM	1/8/2013 6:15:00 PM	Daily: Su-M-Tu-W-Th-F-Sa	PHOTO
1st Floor - 4	1st Floor	1/8/2013 6:15:00 PM	1/9/2013 12:00:00 AM	Daily: Su-M-Tu-W-Th-F-Sa	ON
1st Floor- 1	1st Floor	1/8/2013 12:00:00 AM	1/8/2013 2:00:00 AM	Daily: Su-M-Tu-W-Th-F-Sa	ON
Group #2 - 2	Group #2	1/8/2013 11:15:00 AM	1/8/2013 5:00:00 PM	Daily: Su-M-Tu-W-Th-F-Sa	ON
Group #2- 1	Group #2	1/8/2013 8:00:00 AM	1/8/2013 11:15:00 AM	Never	ON

Base Calendar	Events Calendar				
Name	**Group**	**Start**	**End**	**Repeats**	**State**
1st Floor - Special event 1	1st Floor	1/11/2013 6:00:00 AM	1/11/2013 10:00:00 AM	Monthly: 2nd Friday	ON
Group #2 - Special event 1	Group #2	1/8/2013 7:45:00 AM	1/8/2013 11:00:00 AM	Never	FLASH

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Editing/Deleting Your Event Schedule- Calendar View

To edit or delete an event, first click the event to highlight it. Then choose Edit Event or Delete Event in the Edit Event Schedule Ribbon.
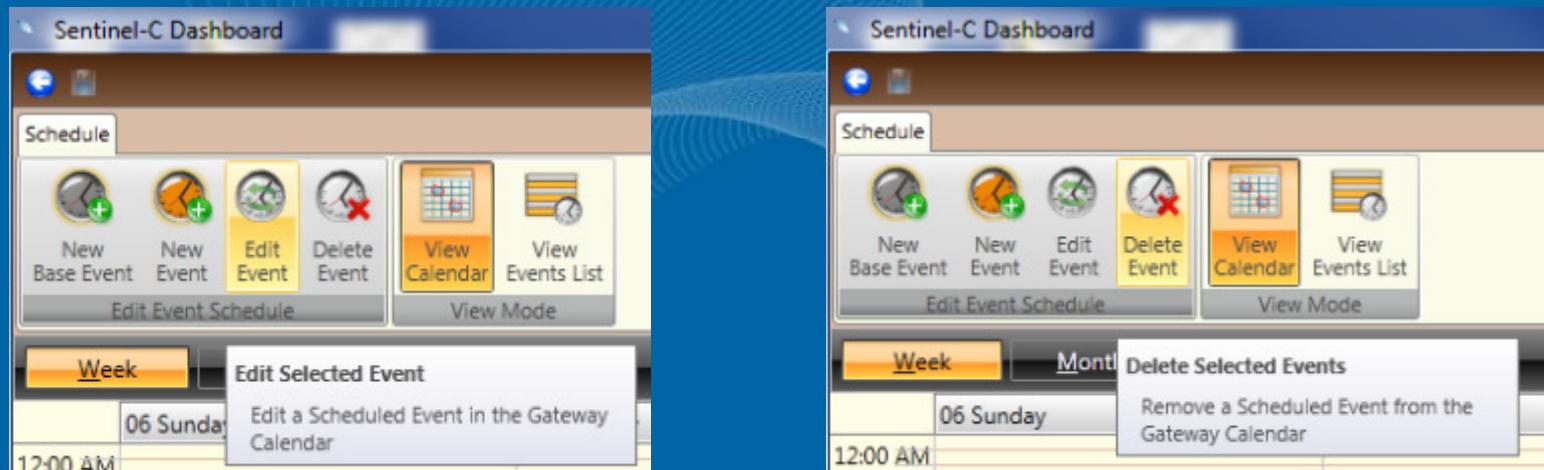
You can also edit and delete events by first left clicking the event to highlight then right clicking the event. If you wish to just edit an event you can double click.
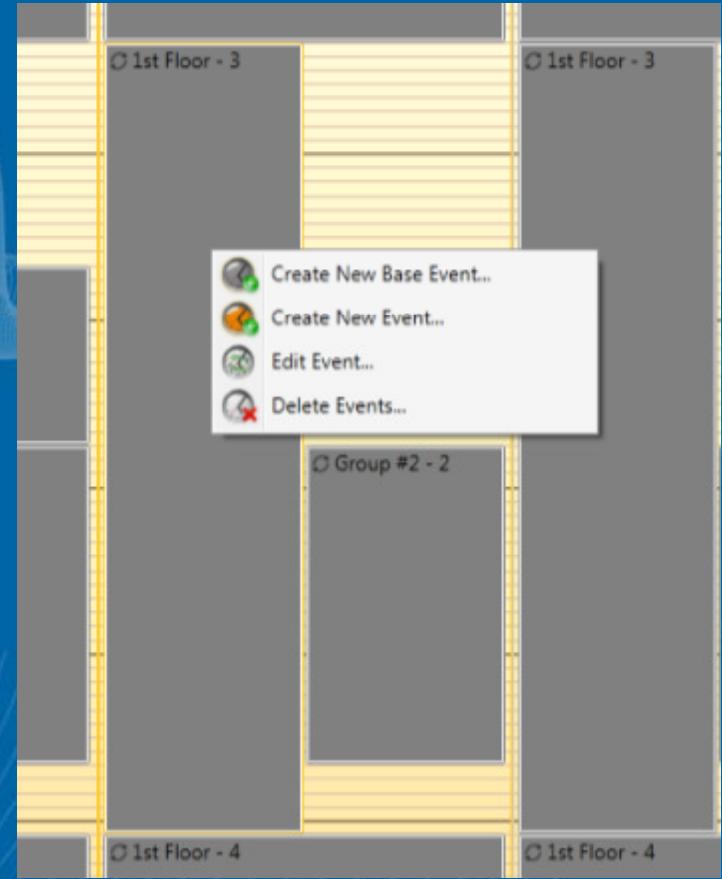
# Editing/Deleting Your Event Schedule- Calendar View

Editing The date and time of an event can also be done by dragging or expanding the event window.

Drag to change date
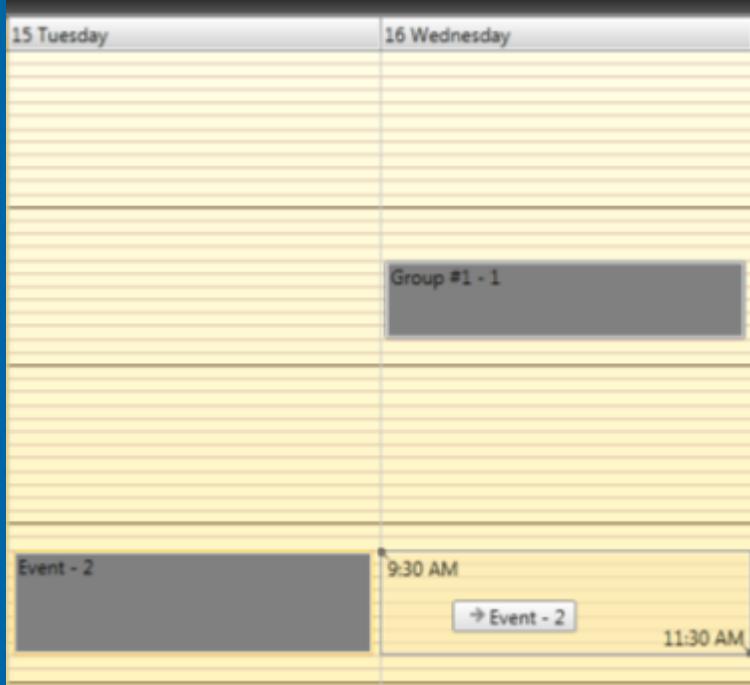
Expand to change time
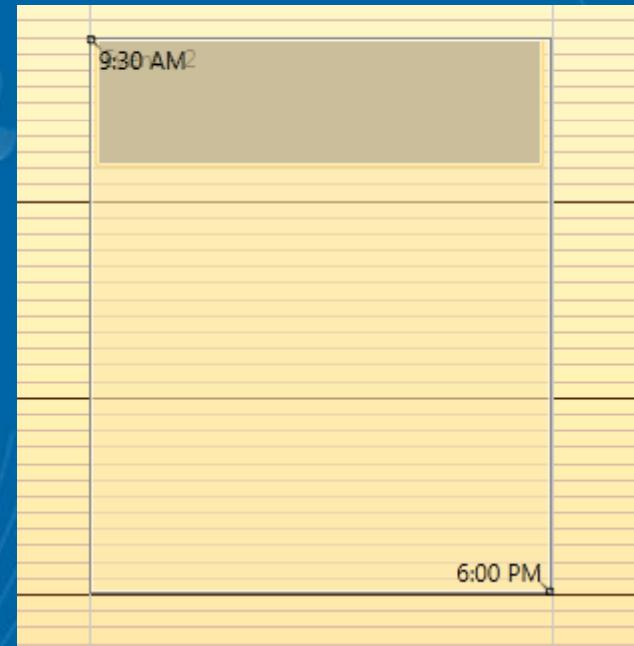
Editing/Deleting Your Event Schedule- Calendar View

To find out more information about an event just hover over the event
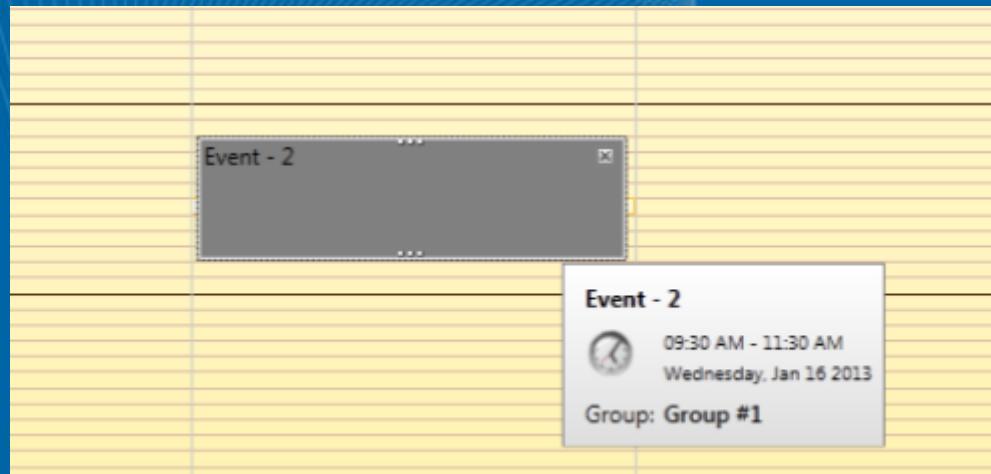
Editing/Deleting Your Event Schedule- List View

List View is Edited the same way left click the event to highlight and select edit or delete event. Alternately you can first left click the event then right click to edit or delete. Also, if you just wish to edit the event you can double click it to bring up the events menu.

# Energy Metering

Sentinel C Logs Energy usage to the SD card of the gateway This information can be accessed through the energy menu on the main screen.

Generating Energy Reports

- Energy reports can be generated for groups or individual field units.

- They can be generated for preset date ranges or a custom range (shown below).

- After you've picked the date range click generate report.
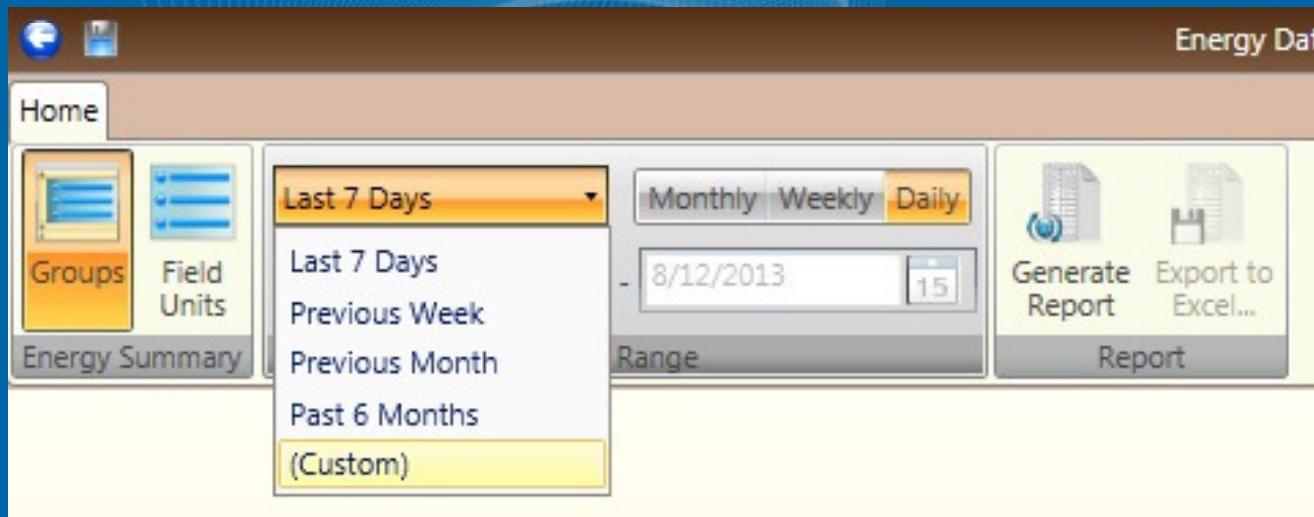
Exporting a report to Microsoft™ Excel

- After generating your report, click the export to excel button.
- This will give you the "save as" menu.
- Save to a location of your choosing. Open later in excel.

Manual Commands

Sentinel C gives you the ability to manually control the field units as well. This is done by going into the groups menu from the home screen and clicking the manual tab. From here you can choose to control groups or individual field units by clicking the buttons in the Manual Control ribbon.
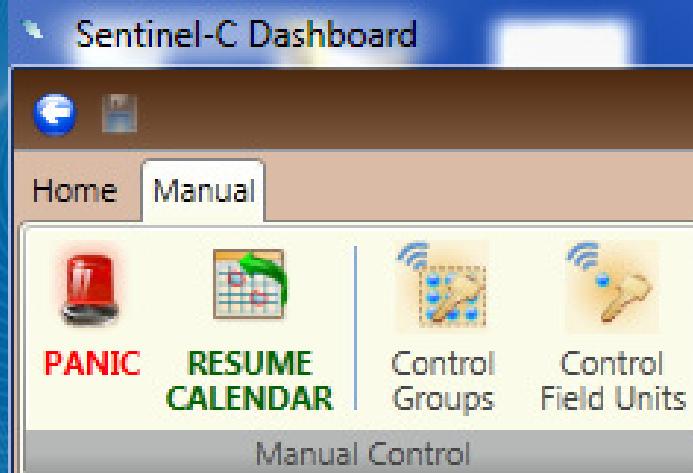
Manual Commands – Group Control

When clicking control groups this will make the status of the group bar selectable.

After selecting the desired status to **Controlled By** field will change to manual control.

Manual Commands – Field Units Control

When selecting Control Field Units a new header appears in the field unit's bar called manual control. From here you can select the desired status of that particular field unit.

Manual Commands – Field Units Control Continued

After selecting the desired state the field unit will report back it's status to the gateway to verify it received the command and the controlled by field will change to manual control (This will also happen to every field unit in the group while using Groups control.

Manual Commands – Exiting Manual Control Mode

To exit manual control simply select the **Resume Calendar** button in the Manual Control ribbon. This will take the lights out of manual control and resume whatever state the light is supposed to be in based on the scheduled calendar (remember if no event is scheduled they will revert to photo-control).
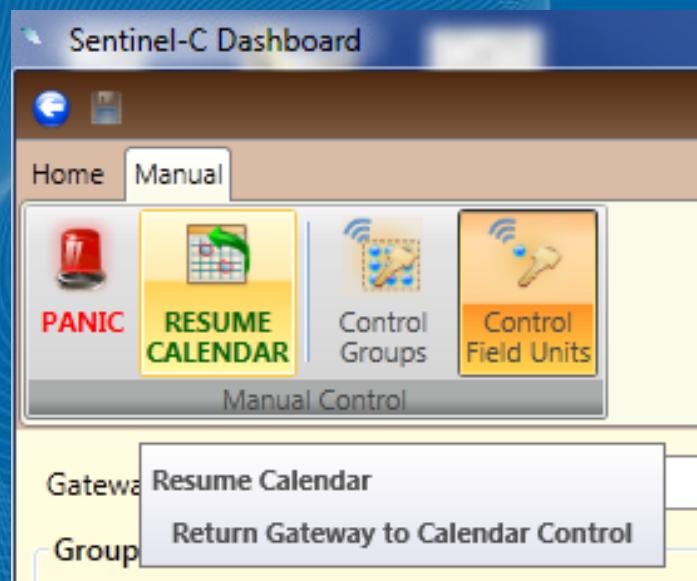
Panic Mode

Panic mode is in place so if ever the need arises, you have a quick way to turn every light in every group to full power. This is done by pressing the **Panic** button in the Manual Control ribbon. Also a hardwired panic button is equip on the front of every Gateway.

Panic Button -
Dashboard
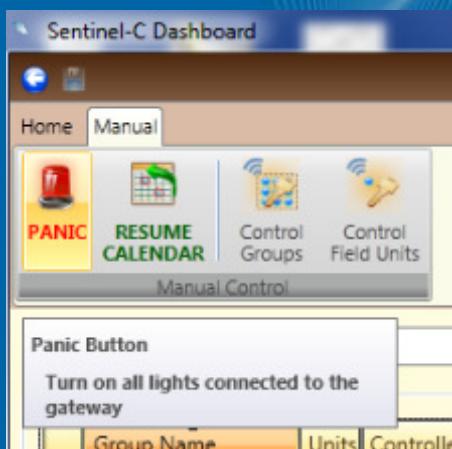
Red panic button -
Hardwired

Panic Mode – Exiting Panic Mode

To take the lights out of Panic mode click the Resume Calendar button and all of the Field Units will revert back to the scheduled event.
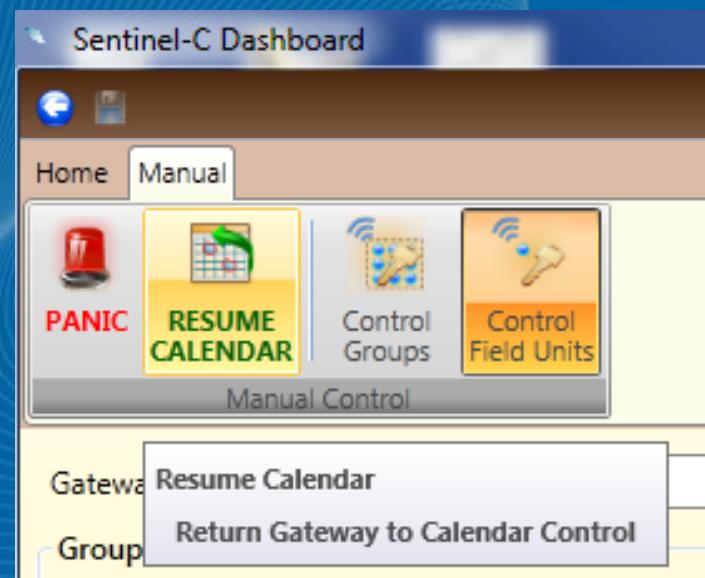
Saving Changes

Whenever there are any changes made to the schedule or groups the information needs to be saved to the gateway or it will be lost.

To save information click the "Floppy Disk" icon at the top left corner of the window.
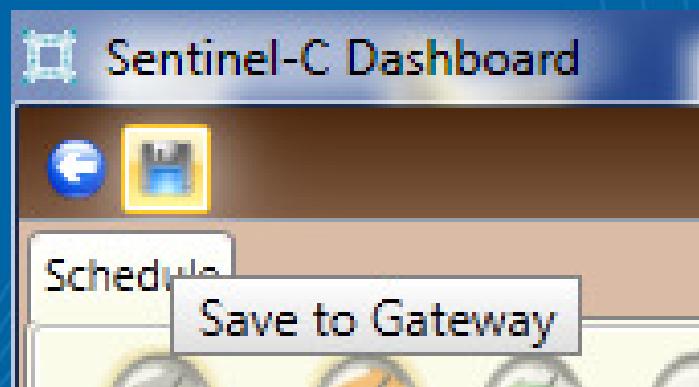
Saving Changes

If there have been changes that have not been saved a large Floppy Disk will also appear on the home screen

Saving Changes

As a last reminder if changes were made that have not been saved upon exiting the Dashboard a window will appear asking you if you are sure you want to exit without saving.

If you click YES the gateway will close and anything changed after the last save WILL be lost.
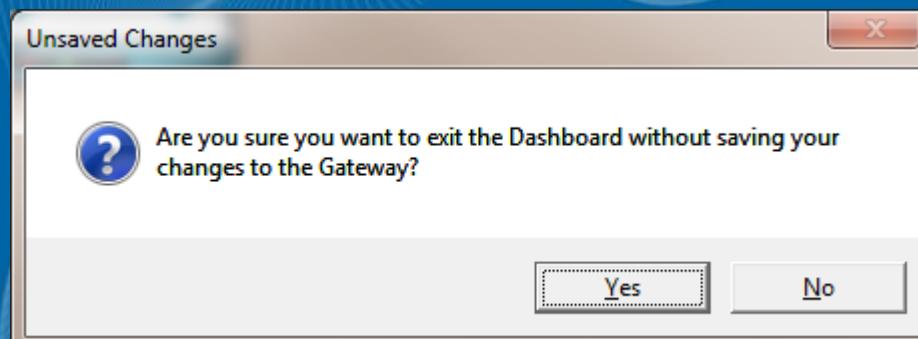
Backing up and restoring gateway data

- To backup the field units, groups and schedules stored to the gateway. Select the groups menu on the main screen, click on the file tab, and select backup.

- To restore click the restore button and select the file.
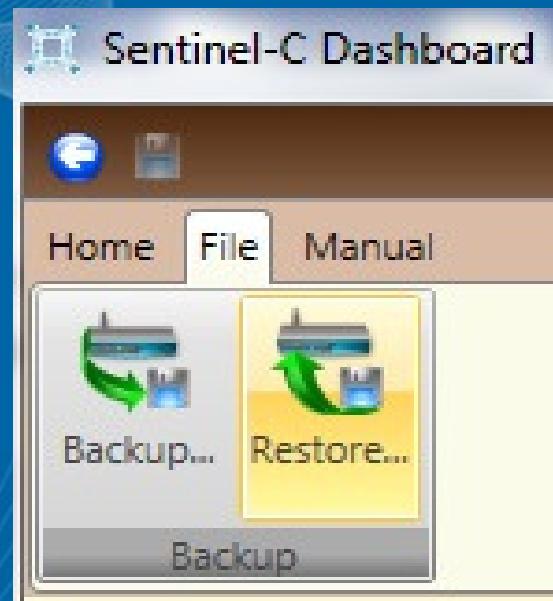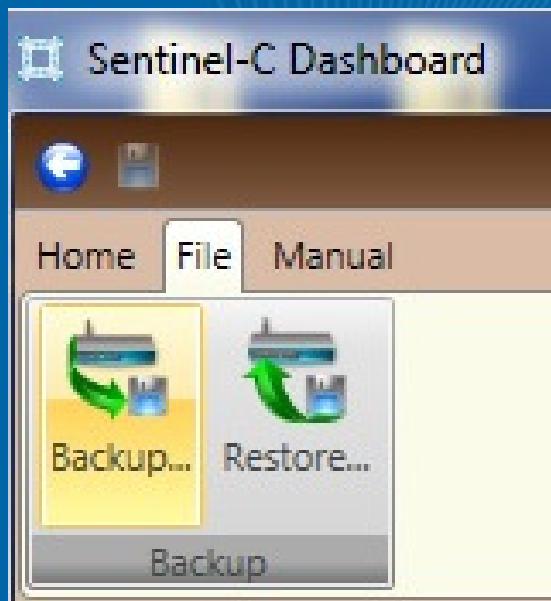
FCC Statements

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

FRENCH VERSION:

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

FOR MORE INFORMATION, VISIT www.relume.com OR EMAIL US AT info@relume.com

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FCC Statements

FCC WARNING

- *You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the users authority to operate the equipment.*

- *This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.*

- *This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:*

  - *Reorient or relocate the receiving antenna.*

  - *Increase the separation between the equipment and the receiver.*

  - *Connect the equipment into an outlet different from that to which the receiver is connected.*

  - *Consult the dealer or an experienced radio/TV technician for help.*

- *Gateway Only: This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. The antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.*