



INTEGRITI SCHEMATICS



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- Updates and/or changes to existing documents.
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(Restricted downloads)
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Integriti Schematics

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Overview

Schematic allows operators to monitor status via an intuitive interface based around graphical floor plans and site maps. Special items can be placed on each map that indicates the status of various entities such as inputs, areas and auxiliaries in real time.

Schematic can be used to:

- Import site plans
- Navigate between maps
- Add entities to maps
- Monitor site activity in real time
- View and acknowledge alarms
- Control items

Schematic Maps are created using the Integrity System Designer. Schematic maps are then viewed in either Gate Keeper or System Designer.

Items placed on the schematic are called map elements. Map elements are optionally linked to entities.

Map elements can be used to highlight items on the schematic or indicate the state of entities.

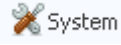
Map elements do not update when you are modifying or creating a schematic map.

Supported image formats used throughout Integrity:

- BMP
- JPG
- GIF
- PNG

Configuration of Schematic Maps

Schematic maps are created, modified and removed through the Integrati System Designer.

Schematic maps are found in the Schematics group under the  System tab. Click the

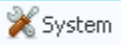


button to open the schematic maps panel.

1. Click on  to open the schematic map designer.

To modify an existing schematic map:

1. Login to the Integrati System Designer.

2. Click on the  System tab followed by
3. Double-click one of the existing the maps.

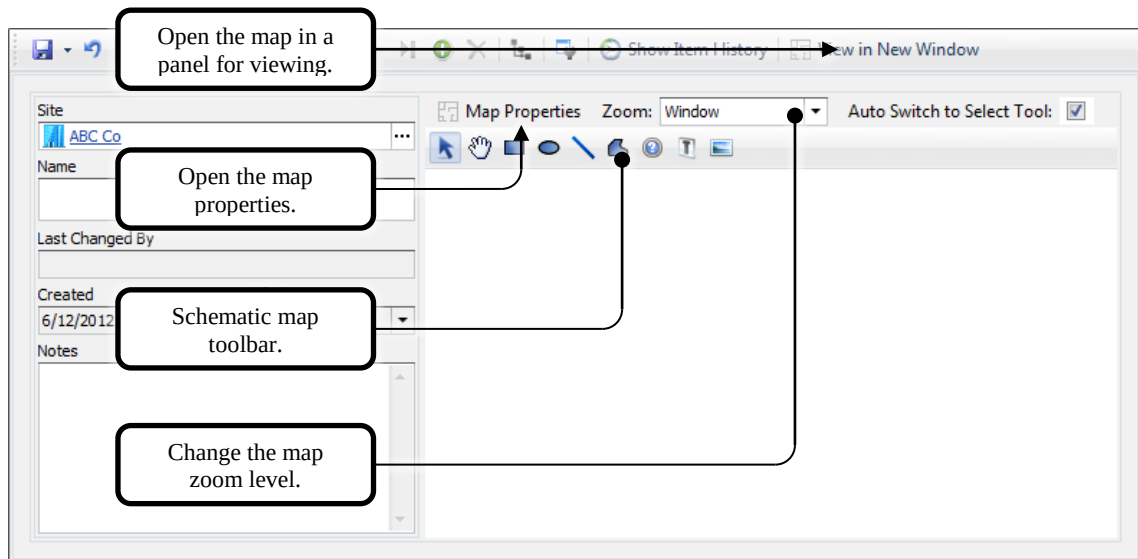


Figure 1

Map properties

Click the  Map Properties button will open the schematic map properties.

Background

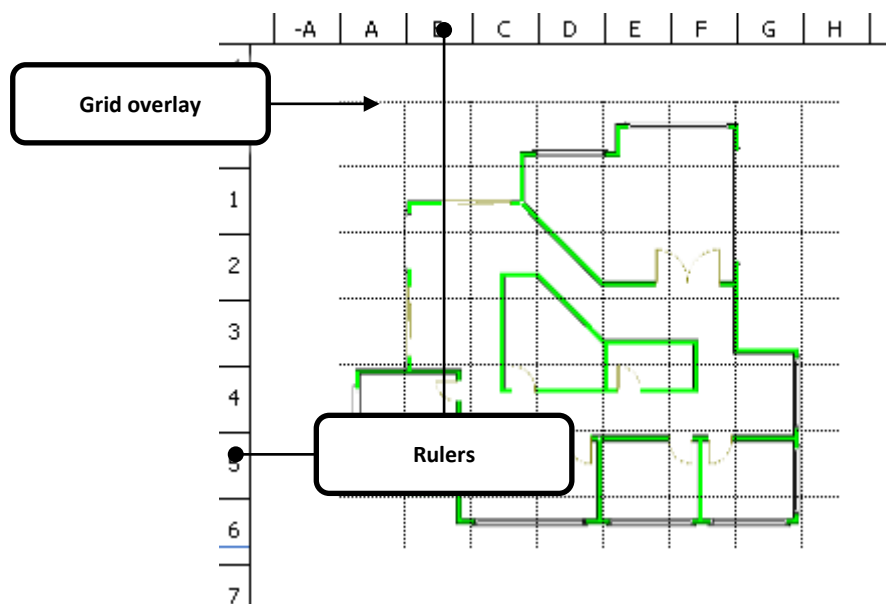
The map background width and height are determined automatically when loading a background image. You can adjust these values manually but this will stretch the background image (if one has been specified).

The background colour is white (255,255,255) by default. It is only visible if there is no background image or the image has transparent regions.

To load a background image, click on the  Change button.

To remove the background image, click on the  Clear button.

Grid Overlay



Enabling the grid overlay will place dotted grid lines over the schematic.

Enabling the rulers will place alphanumeric grid reference rulers to the top and left of the schematic map.

The grid block width and height are measured in pixels. The scale of the grid will vary with the schematic map zoom level.

Default Font

The default font used for schematic maps is **Arial, 12pt**. This can be adjusted by clicking on the ellipsis (⋮) and selecting your font preferences in the font selection window.

The default font will be used for all newly created schematic map items. Changing the default font will not override font settings for existing map items.

Schematic map toolbar

The schematic toolbar contains all of the controls necessary for creating the schematic.



Select tool

The select tool allows you to select and modify properties of items on the schematic. Ticking Auto Switch to Select Tool will cause the select tool to become active after a new item has been successfully added to the schematic.



Pan tool

If the schematic is at a zoom level larger than the screen, use this tool to move the schematic around the screen.



Rectangle tool

To draw a rectangle on the schematic:

1. Select the rectangle tool.
2. Click and drag to draw a rectangle. Where you press and release your mouse button will define the shape of the rectangle.
 - Pressing and holding shift for this step will allow you to create a square.
3. The Map Element Properties window will appear immediately after the element has been drawn.



Ellipse tool

To draw an ellipse on the schematic:

1. Select the ellipse tool.
2. Click and drag to draw an ellipse. Where you press and release your mouse button will define the shape of the ellipse.
 - Pressing and holding shift for this step will allow you to create a circle.
3. The Map Element Properties window will appear immediately after the element has been drawn.



Line tool

To draw a line on the schematic:

1. Select the line tool.
2. Click and drag to draw the line. Where you press and release your mouse button will define the position and length of the line.
3. The Map Element Properties window will appear immediately after the element has been drawn.



Freeform tool

To draw a freeform element on the schematic:

1. Select the freeform tool.
2. Click once at the starting point of where you want to create the freeform object.
3. Continue clicking on the schematic to place multiple points on the freeform element.
4. When you have finished, double-click.
5. The Map Element Properties window will appear immediately after the element has been drawn.

Once you have closed the Map Element Properties window, you can continue to fine tune the freeform element.

Click and drag your mouse along any freeform line to create a new node on the element.

Right-click any node on the freeform element to delete it.

You can click and drag any existing nodes on the freeform element.



Icon tool

Click where you would like to place the icon.



Label tool

Click where you would like to place a text label.



Image tool

Click where you would like to place the image.

Map Element Properties

Every item placed on the schematic map has its own set of properties.

The screenshot shows a dialog box titled "Map Element Properties". It contains several sections:

- Linked Item:** A text field with a dropdown arrow and a close button (X).
- Presenter:** A text field with a dropdown arrow and a close button (X).
- Default Display Settings:** A section containing a table with the following data:

Default Display Settings	
Interior Color	Gray
Opacity	128
Outline Color	Black
Outline Thickness	5
Show Outline	True
- Additional Commands:** A section with a green plus icon and the text "Add", a red minus icon and the text "Remove", and a table with the following data:

Name	Command
------	---------

At the bottom of the dialog box are two buttons: "OK" (with a green checkmark icon) and "Cancel" (with a red X icon).

Figure 2

Linked Item

If a map element is linked to something, it will reflect the status of whatever it is linked to which is determined by the selected presenter.

To link the element to an item, click the  and select the item from the list that appears.

To remove the link, click on the .

Presenter

A presenter is a collection of format settings and rules that govern how a map item will behave on the schematic. Presenters can only be assigned to a schematic map item if it is linked to an entity.

When a linked item has been selected, an element presenter will automatically be associated with the schematic map item. If a default element presenter for the item type has not been designated, the element presenter that is automatically associated with the map item will be randomly selected.

Some presenters have been included with the Integriti software to cover common map item types. The included presenter item types are:

- Area
- Auxiliary
- Camera
- Controller
- Door
- Input
- LCD Terminal
- Macro
- Schematic Map

Default Display settings

Interior colour:

Default value: Grey (128,128,128)

Colour selections are made up of a combination of 3 values (Red, Green and Blue) in the range of 0 and 255. The interior colour of the item can be a Web, System or Custom colour. You can manually enter the colour or click the drop down to select the colour from the colour picker.

Manual colour entry examples:

0, 0, 255	Blue	
255, 0, 0	Red	
0, 255, 0	Green	
0, 255, 255	Cyan	



If the colour value entered has the same value as any of the colours found under the Web or System colour picker tabs, it will automatically change to the colour name.

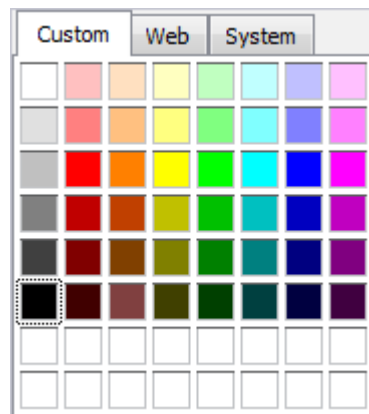


Figure 3

Right-click any of the colour squares in the bottom two rows of the Custom tab to add your own colour.



Figure 4

Opacity 0-255

Default value: 128 (semi-transparent)

The opacity affects both the Interior and outline colour. Use a value of 255 for opaque and a value of 0 for transparent.



Outline color

Default value: Black (0,0,0)

The value specified here determines the colour of the outline/border surrounding the schematic map item.

If the border is transparent, only the opacity setting will affect the specified border width of the map item.

Example:

- Interior color – Web -> Cyan
- Opacity – 128
- Outline color – Web -> Transparent
- Outline Thickness – 5
- Show Outline – True

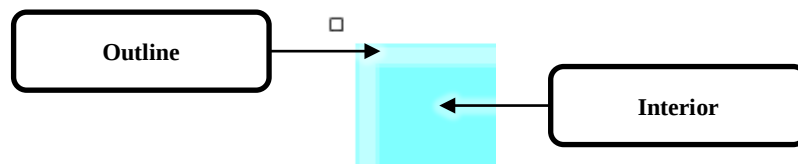


Figure 5

Outline Thickness

Default value: 5 pixels

The value specified here will determine the thickness of the border / outline. A value of 0 will leave a 1 pixel border.

Show outline

Default value: True

Setting this option to False will disable the outline of the item.

Additional Commands

Schematic map items can have custom commands assigned to them. When an operator clicks (or right-clicks) a schematic map item, a list of the available commands will be presented to them. Additional commands are appended to the end of the list.

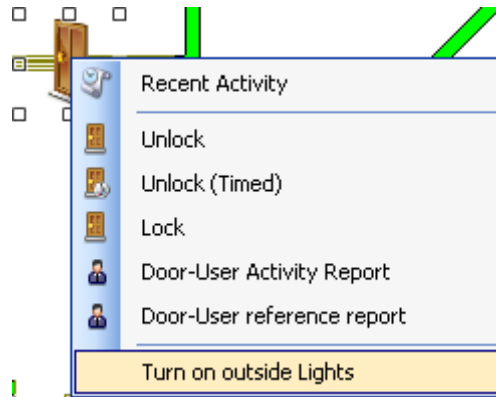


Figure 6

Creating additional commands

1. Click on  to create an additional command in the additional commands list.
2. Click in the name field and give a name to the new command.
3. Click on the command field followed by .
4. Select an option from the Action Type drop down list.
 - See the table below for more information.

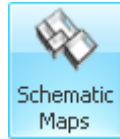
None	Does not perform any action. Can be used as a place holder for future use or for entering notes.
ControllerAction	Can assert or dis-assert any action on the controller. Specify the action to send and the edge type. The action to send parameters is identical Actions found in the Integrati Software Installation Manual.
DBBackup	Backup the entire database to a specified location. DB Backup has two options: • Include review data. • Append a date/time stamp the exported filename.
Delay	Not used here. This action type should only be used within a sequential list.
LogReview	Put a message in review. You can specify the review level and the message text.
Parallellist	Execute a list of commands in parallel. This will open a new Configure Task Action window where a list of actions can be executed in simultaneously.
SequentialList	Execute a list of commands in order. This will open a new Configure Task Action window where a list of actions can be executed in order.
SyncTime	Synchronise the time/date of one or many controllers. To update the time of all Integrati controllers, leave the controller field blank. To update a specific Integrati controller, open a controller for editing, copy its name and paste it in to this field.

Viewing and controlling elements on Schematic Maps

To open a schematic map for viewing:

1. Login to the Integriti Gate Keeper.

2. Click on the **Home** tab followed by
3. Double-click on any one of the available maps.
4. Continue to step 5 below.



-or-

1. Login to the Integriti system designer

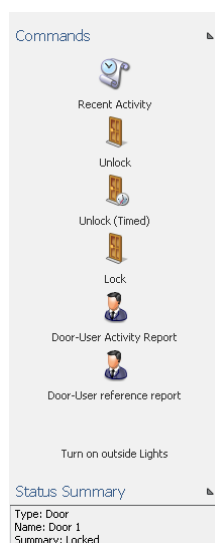
2. Click on the **System** tab followed by
3. Double-click on any one of the available maps to open for editing.
4. Click on  to open the map for viewing. The window might appear in the background.



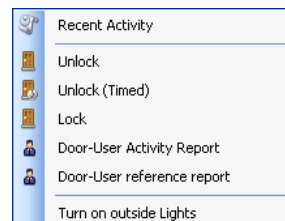
5. Click on a map item to open the Commands side bar.

-or-

5. Right-click on a map item to open the commands context sensitive menu.



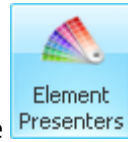
Commands side bar.

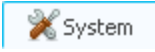
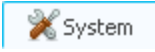


Context sensitive menu.

Element Presenters

A presenter is a collection of format settings and rules that govern how a map item will behave on the schematic. Presenters can only be assigned to a schematic map item if it is linked to an entity.



To create element presenters, click on the  button in the Schematics group under the  tab.

Click on the  button to create a new element presenter.

Double-click an existing element presenter to edit it.

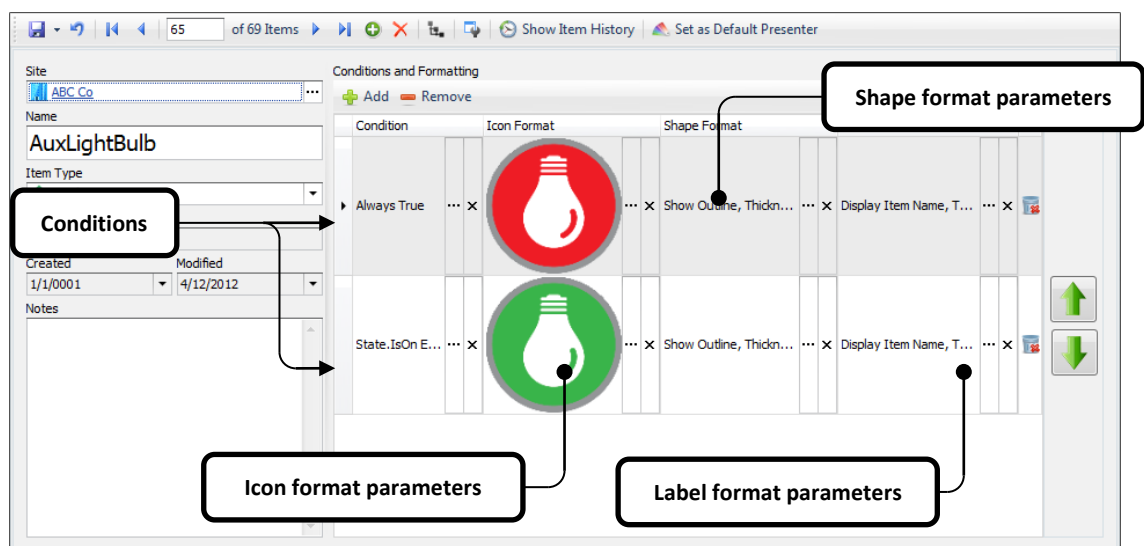
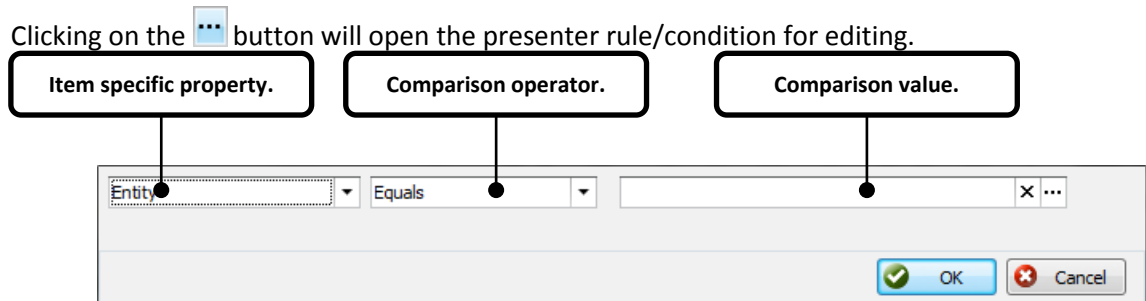


Figure 7

Condition

The condition under which the Icon, Shape or Label format will change to the values specified.



Depending on the selected item type of the presenter, options in the presenter rule editor will vary.

Examples of item specific properties for a door are:

- Is On
- Summary
- Last Updated
- Extended Status
- Entity

Icon Format

From here you can select an image for the specific condition.

Clicking on the  button will open the icon format window.

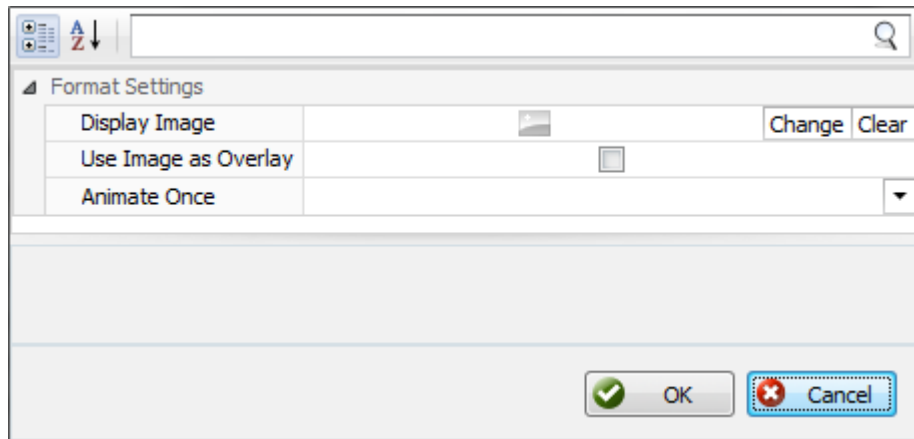


Figure 8

Click **Change** to select the desired image.

If the image is to be used to overlay other images of the element presenter, check the 'Use Image as Overlay' checkbox.

If the selected image is an animated GIF, you can change the 'Animate Once' to True to play the animation once or False to loop the animation.

Shape Format

Show Outline		▼
Outline Thickness		
Opacity		
Interior Colour		▼ ×
Outline Colour		▼ ×

Figure 9

Show outline

Default value: True

Setting this option to False will disable the outline of the item.

Outline Thickness

Default value: 5 pixels

The value specified here will determine the thickness of the border / outline. A value of 0 will leave a 1 pixel border.

Opacity 0-255

Default value: 128 (semi-transparent)

The opacity affects both the Interior and outline colour. Use a value of 255 for opaque and a value of 0 for transparent.

Interior colour:

Default value: Grey (128,128,128)

Colour selections are made up of a combination of 3 values (Red, Green and Blue) in the range of 0 and 255. The interior colour of the item can be a Web, System or Custom colour. You can manually enter the colour or click the drop down to select the colour from the colour picker.

Manual colour entry examples:

0, 0, 255	Blue	
255, 0, 0	Red	
0, 255, 0	Green	
0, 255, 255	Cyan	



If the colour value entered has the same value as any of the colours found under the Web or System colour picker tabs, it will automatically change to the colour name.

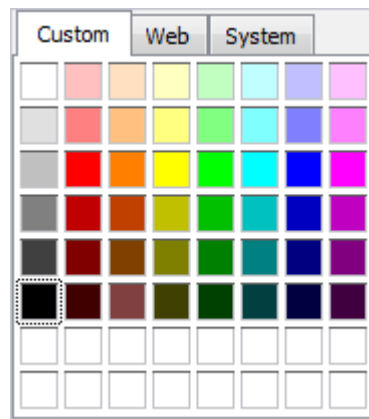


Figure 10

Right-click any of the colour squares in the bottom two rows of the Custom tab to add your own colour.



Figure 11

Outline color

Default value: Black (0,0,0)

The value specified here determines the colour of the outline/border surrounding the schematic map item.

If the border is transparent, only the opacity setting will affect the specified border width of the map item.

Example:

- Interior color – Web -> Cyan
- Opacity – 128
- Outline color – Web -> Transparent
- Outline Thickness – 5
- Show Outline – True

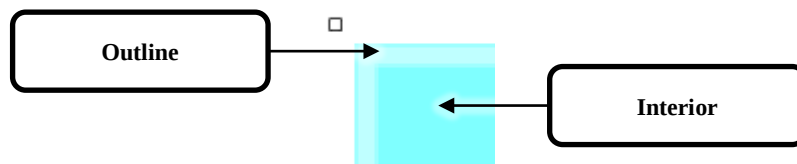


Figure 12

Label Format

Format Settings	
Use Name For Text	True
Use State For Text	
Use Alarm Count For Text	
Additional Text	
Text Colour	0, 0, 0

Figure 13

Use Name For Text

Default value: True

When set to True, the name of the item associated with the presenter will be displayed.

When set to False, the name of the item associated with the presenter will not be displayed.

Use State For Text

Default value: (Blank)

When set to True, the state of the item associated with the presenter will be displayed.

When set to False, the state of the item associated with the presenter will not be displayed.

Use Alarm Count For Text

Default value: (Blank)

When set to True, the alarm count of the item associated with the presenter will be displayed.

When set to False, the alarm count of the item associated with the presenter will not be displayed.

If the item associated with the presenter does not have an alarm count, setting this option has no effect.

Additional Text

Default value: (Blank)

Text entered in this field is appended to the end of the label for the associated map item. The text will be separated by a hyphen.

Text colour:

Default value: Black (0,0,0)

Colour selections are made up of a combination of 3 values (Red, Green and Blue) in the range of 0 and 255. The interior colour of the item can be a Web, System or Custom colour. You can manually enter the colour or click the drop down to select the colour from the colour picker.

Manual colour entry examples:

0, 0, 255	Blue	
255, 0, 0	Red	
0, 255, 0	Green	
0, 255, 255	Cyan	



If the colour value entered has the same value as any of the colours found under the Web or System colour picker tabs, it will automatically change to the colour name.

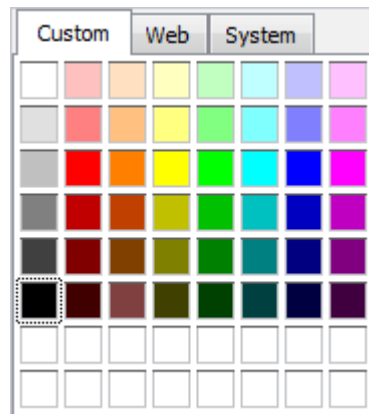


Figure 14

Right-click any of the colour squares in the bottom two rows of the Custom tab to add your own colour.



Figure 15

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