

Layout Editor 2 User Guide



Resource Data Management Ltd
80 Johnstone Avenue, Hillington Industrial Estate,
Glasgow, Scotland G52 4NZ UK

+44(0)141 810 2828
support@resourcedm.com
sales@resourcedm.com

Switchboard
Technical Support
Sales Enquiries



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Layout Editor

Overview

The RDM Layout Editor is a graphical editing tool that allows site layouts to be created and saved in a file format compatible with the Data Manager. Once the layout has been created, it is displayed on a local or remote PC. Using a layout diagram gives a better visual indication of where all the devices are located as opposed to being displayed on a list.

Once imported to the Data Manager, the layout gives a visual indication of all the devices current states by changing the symbol of the device to a different colour, for example red would indicate an alarm condition and blue would indicate normal. Instantaneous device values are also displayed on the layout diagram. Layouts can be created without the need of imported drawings or from an imported AutoCad dxf file. To allow for correct scaling, the tool allows the user to preview the layout as it would appear on the onsite PC screen.

The layout can have multiple levels or a single level. Multiple levels allows for the layout to be divided into different sections, for example floors in a building. Clicking on a level icon will open up a layout for that particular section, this layout can also contain multiple levels. Multiple levels prevent a layout becoming too complicated and cluttered.

Layouts may appear differently on different PCs depending on their settings. PC display settings and font sizes may need to be adjusted to show the layout as intended, the type of internet browser used may also affect how the layout appears.

Data Manager software version 1.54.4 or higher is required to use Layout editor 2, for earlier versions use the original Layout editor software package.

Installation

Run the "setup.exe" from the top directory on the CD or downloaded file and follow the on-screen instructions.

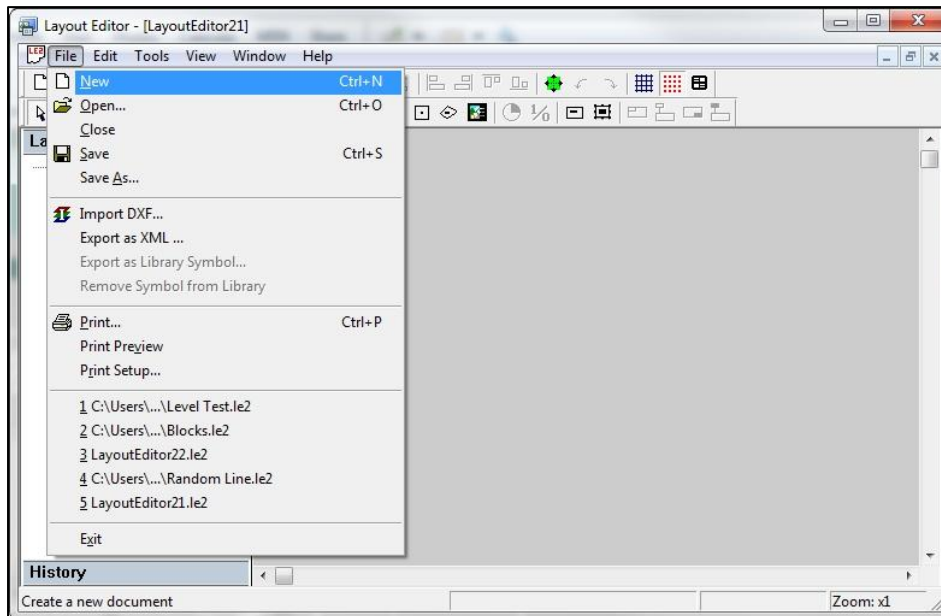
Getting Started

If you intend to create a multi level layout then you must start at the top level first by selecting the rectangular or pictorial level icons, this is described in more detail later in this document, see: [Rectangular Level](#)

Not using an imported drawing

Start the program using the standard Windows method.

From the menu bar, select "File" and from the dropdown box select "New"



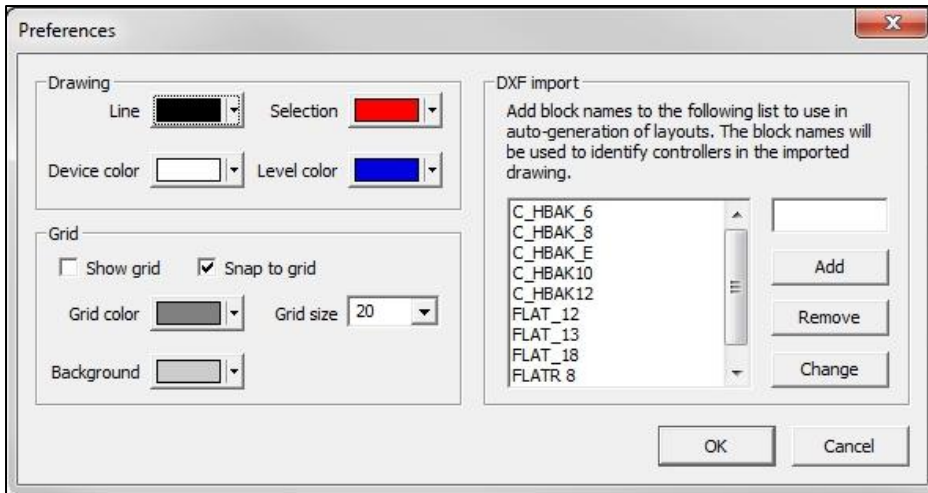
You can now start using the tools available in the tool bar to start building your layout

Using an imported drawing

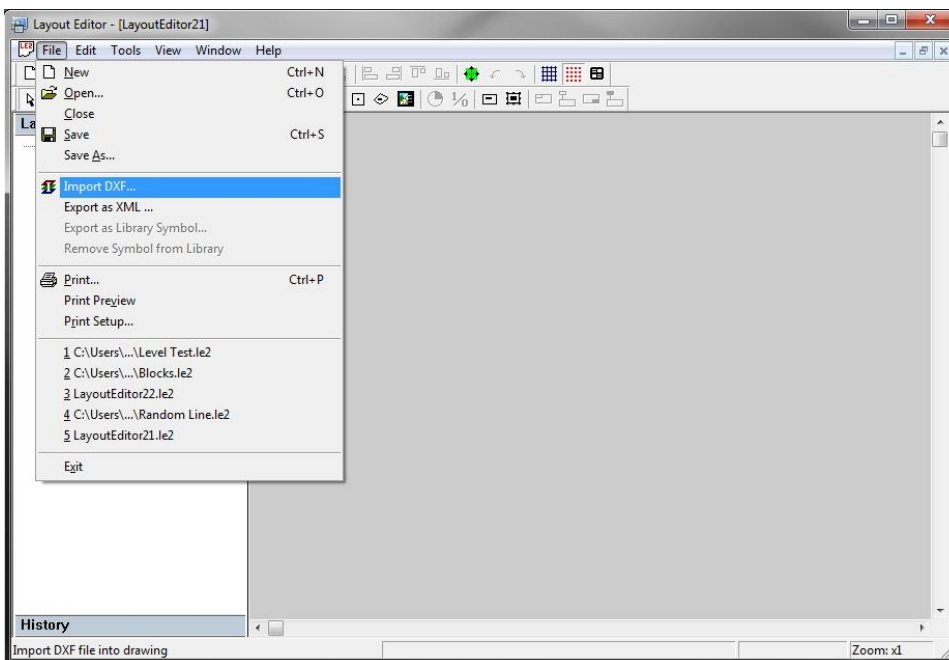
Start the program using the standard Windows method.

Before importing a DXF file, the Layout Editor can be set to automatically detect DXF block reference names. These are then used to automatically generate controller blocks on the layout. There are a limited number of block reference names as standard, but more can be added manually.

To configure this option, click to the "View" menu item and then choose "Preferences",



Once the preferences have been set, from the menu bar, select "File" and from the dropdown box select "Import DXF..."

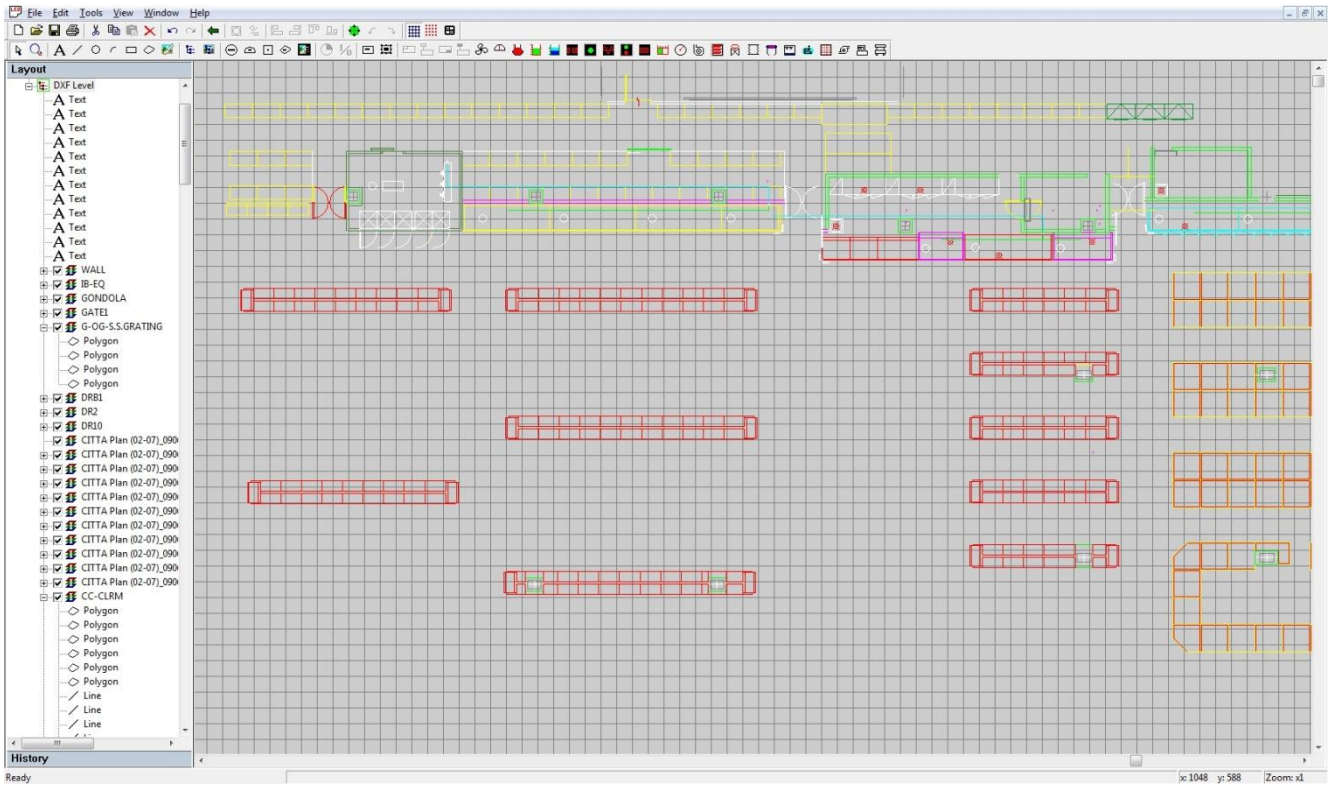


Follow the on-screen instruction to load the desired DXF file.

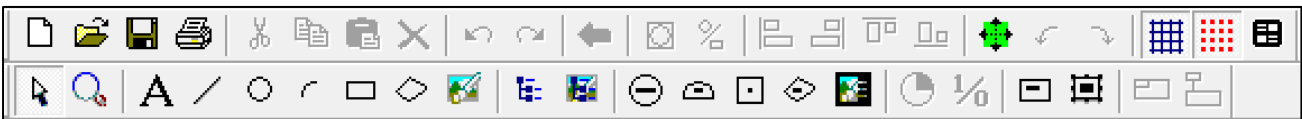
Note that loading a DXF can take several minutes depending on it's size and the PC processor and memory specification.

Once the DXF has loaded, the layout features can be added or edited using the tools available on the Layout toolbar on the left of the screen.

The DXF file is loaded onto a separate layer in the Layout Editor. Individual layers in the DXF file can be removed or deleted completely after it has been used to position controllers. Use the Layout toolbar to tick, untick or delete selected layers.



Layout Editor Tools:



Select

Use this tool to select objects:

Click and hold left button, drag cursor over object(s) to select, release left button to select.
Or single click on one object to select.

Resizing:

Once an object has been selected, it can be resized by using the select tool: - Click and hold the left button on one of the object grab points, move the mouse until you have the required new size, release the left button to complete the operation.

Moving:

Objects can be moved in the layout by using the select tool: - Click and hold the left button anywhere within the object, a dotted outline and a centre spot will appear, click on the centre spot, move the object to the desired location in the layout and release the left button.

Unselecting:

To unselect, single click anywhere in the layout outside an object.

Zoom



Click the "Zoom" icon to activate the zoom command. Click the left button anywhere in the workspace to zoom in, and click the right button anywhere in the workspace to zoom out.

Text



Static text can be added to the layout by first selecting the "Text" button and then a single click on the layout give a "static text" object.

To edit the text, use the select tool and right click on the static text object, select "Properties". Enter the desired text in the pop-up box and click "OK" to finish or "Cancel" to abort the edit operation. Text can be set to different sizes for the non-zoom and zoom view. Font and colour can also be selected.

Line



Lines can be added to the layout by selecting the "Line" tool. Click and hold the left button where you want the line to start on the layout; drag the mouse until the desired end point is reached and release the left button. The line will be drawn on the layout. Repeat the operation for further lines on the layout. Right clicking and selecting "Properties" allows the line colour and width to be selected.

Circles



Circles can be added to the layout by selecting the "Circle" tool and then left click and hold on the layout, drag the mouse until the desired size is reached and release the left button. Right clicking and selecting "Properties" allows the colour and line width to be changed.

Arc



Arcs can be added to the layout by selecting the "Arc" tool and then single click on the layout, drag the mouse until the desired size and start point is reached, single click to select the size and start point, move the mouse through the circle until the desired end point is reached and then single click to finish the arc object. Right clicking and selecting "Properties" allows the colour and line width to be changed.

Rectangle



Rectangles can be added to the layout by selecting the “Rectangle” tool and then click and hold the left button on the layout, drag the mouse until the desired size is reached and then release the left button to complete the operation. Right clicking and selecting “Properties” allows the colour and line width to be changed.

Polygon



Polygons can be added to the layout by selecting the “Polygon” tool and then click and release the left button on the layout to select a start point, drag the mouse until the desired end point of the first line is reached and then release the left button to complete the first line. Repeating this process several times allows more lines to be added and more complex shapes to be created, once the shape is complete right click to complete the operation. Right clicking and selecting “Properties” allows the colour and line width to be changed

Picture

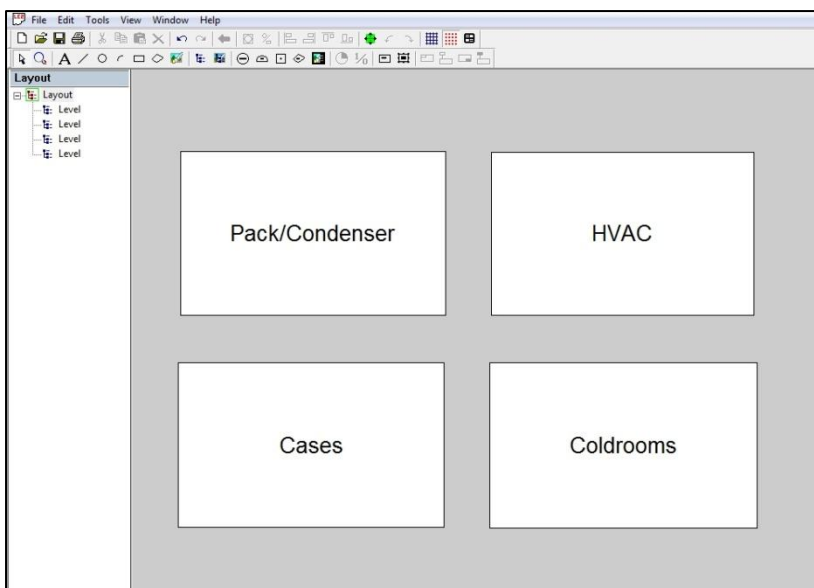


Pictures in the form of a gif, jpg, or jpeg image, can be added to the layout by selecting the “Picture” tool. Click and release the left button on the layout at the desired position, a “Picture” icon will appear, right clicking and selecting “Properties” allows the location of the desired image file to be selected, clicking “OK” will complete the action and add the image to the layout.


Rectangular Level



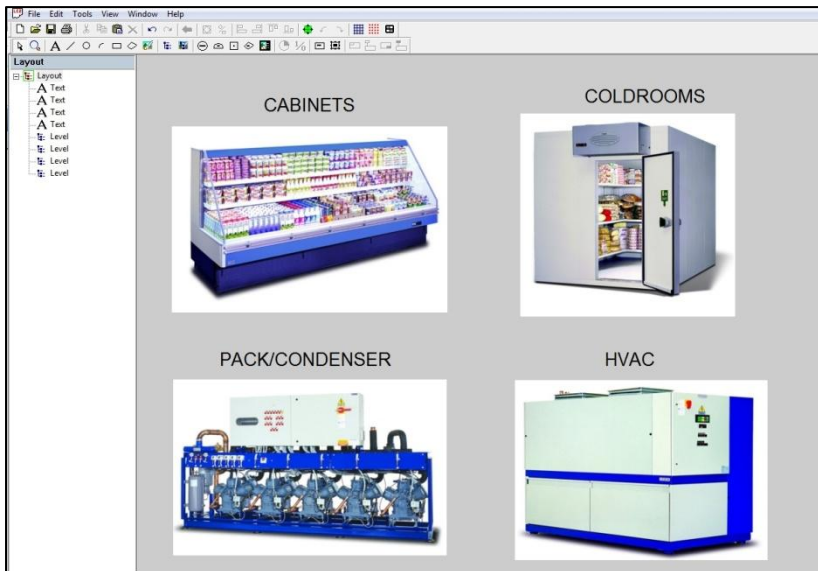
Several levels can be added to a layout diagram. Careful consideration should be taken in the planning of this, the top level should be selected first as it cannot be added at a later date. Select the “Rectangular Level” tool and then click and hold the left button on the layout, drag the mouse until the desired size is reached and then release the left button to complete the operation.



In the example on the left, four Rectangular Levels have been added to a blank layout. Each Rectangular level is given a name by right clicking and selecting “Properties” for each rectangle. This is now the “Top Level” and will be the first page to be displayed when the completed layout is loaded onto the Data Manager. Double clicking the left mouse button on any of the four rectangles will open a new “Sub Level”. Each sub level can now be created in the usual manner, in this example there will be four sub levels, each with it’s own layout.

Once in a sub level, selecting the “Back” arrow on the toolbar  will return to the top level.

Pictorial Level



A pictorial level can be used in the same manner as a Rectangular level, but using a suitable picture image instead. Select the “Pictorial Level” tool then click and release the left button on the layout at the desired position, a “Pictorial Level” icon will appear. Right clicking and selecting “Properties” allows the location of the desired image file to be selected, clicking “OK” will complete the action and add the image to the layout. Once loaded onto a Data Manager, a colour bar will appear underneath each image to indicate the condition of the items in the sub-level. If the items are in different conditions, the bar will split into different colours accordingly.

Devices



There are five different types of devices on the toolbar, Circle, Arc, Rectangle, Polygon and Picture. These are added to layout in the same way as the regular shapes on the toolbar but are linked to a controller or item on the Data Manager or system network. A device will display a value relating to the controller as it appears on the Data Manager device list and will also change colour to reflect the status of this controller or item.

See [Naming Devices](#) to edit the device name.

Circular Device



Circular Devices can be added to the layout by selecting the "Circular Device" tool and then left click and hold on the layout, drag the mouse until the desired size is reached and release the left button.

Arc Device



Arc Devices can be added to the layout by selecting the "Arc Device" tool and then single click on the layout, drag the mouse until the desired size and start point is reached, single click to select the size and start point, move the mouse through the circle until the desired end point is reached and then single click to finish the arc object.

Rectangular Device



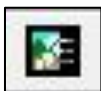
Rectangular devices can be added to the layout by selecting the "Rectangle Device" tool and then click and hold the left button on the layout, drag the mouse until the desired size is reached and then release the left button to complete the operation.

Polygon Device



Polygon devices can be added to the layout by selecting the "Polygon Device" tool and then click and release the left button on the layout to select a start point, drag the mouse until the desired end point of the first line is reached and then release the left button to complete the first line. Repeating this process several times allows more lines to be added and more complex shapes to be created, once the shape is complete right click to complete the operation.

Pictorial Device



Pictorial Devices in the form of a bmp, gif, jpg, jpeg or tif image, can be added to the layout by selecting the "Pictorial Device" tool then click and release the left button on the layout at the desired position, a "Pictorial Device" icon will appear. Right clicking and selecting "Properties" allows the location of the desired image file to be selected, clicking "OK" will complete the action and add the image to the layout.

GP Timer

Feature not currently in use, for future development.

GP Override

Feature not currently in use, for future development.

Device Properties "Channel"

Feature not currently in use, for future development.

Device Item



A device's value, as it appears in the Data Manager device list, will be automatically displayed in real time inside the device once the layout has been loaded onto the Data Manager. The Device Item tool allows additional device values to be displayed inside the device.

Select the "Device Item" tool and left click at the position where the value is to be displayed, a "Value" icon will appear. Right clicking and selecting "Properties" opens a text properties box, the value name to be displayed can be entered here. The text must match exactly the text on the Data Manager of the value to be displayed, for example "Room Temperature", text is also case sensitive.

If the value needs to be edited at a later date, left clicking on the device will highlight it in the left hand drop down menu tree, the device can then be expanded and the value edited as required. The same process can be used to alter the position of the value within the device.

Network Item



A real time value (such as temperature) from a device on the system network or Data Manager, can be displayed inside or next to a device.

Select the "Network Item" tool and left click at the position where the value is to be displayed, a "Device" and "Value" icon will appear. Right clicking and selecting properties opens a dialogue box. In the dialogue box the network device to be used and the value from that device to be displayed can be selected, the font, size and colour of the value to be displayed can also be chosen if required. NOTE: The text must match exactly the text on the Data Manager of the name of the controller and the value to be displayed, for example "HVAC-1" and "Room Temperature", text is also case sensitive.

Dock Name

Feature not currently in use, for future development.



Float Name

Feature not currently in use, for future development.



Back



When using a layout with more than one layer, the back arrow tool, when selected, will show the previous level.

Group



Objects can be grouped together to form a single object, this can make it easier to edit a layout. Using the select tool, click and hold the left mouse button on the workspace, drag the mouse until all the objects you wish to group are within the red rectangle, release the left button. The objects will now be grouped as one object by either clicking the Group icon in the toolbar or by right clicking and selecting Group.

Ungroup



This tool is used to ungroup a selection of objects that have previously grouped together. Left click the mouse button over the grouped objects to select them and then right click and select the Ungroup or click on the ungroup icon in the toolbar. They will now become single objects again.

Align Left



Using the select tool, click and hold the left mouse button on the workspace, drag the mouse until all the objects you wish to align to the left of the page are within the red rectangle, release the left button. Clicking on the align left icon will cause all the objects within the red rectangle will moved to the left in line with object that is in the furthest left position.

Align Right



Using the select tool, click and hold the left mouse button on the workspace, drag the mouse until all the objects you wish to align to the right of the page are within the red rectangle, release the left button. Clicking on the align right icon will cause all the objects within the red rectangle will moved to the right in line with object that is in the furthest right position.

AlignTop



Using the select tool, click and hold the left mouse button on the workspace, drag the mouse until all the objects you wish to align to the top of the page are within the red rectangle, release the left button. Clicking on the align top icon will cause all the objects within the red rectangle will moved to the top in line with object that is in the highest position.

Align Bottom

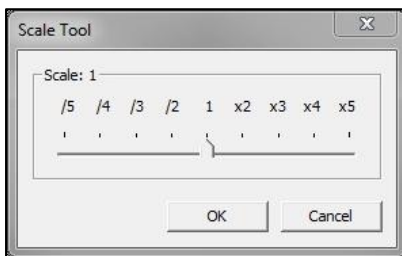


Using the select tool, click and hold the left mouse button on the workspace, drag the mouse until all the objects you wish to align to the bottom of the page are within the red rectangle, release the left button. Clicking on the align bottom icon will cause all the objects within the red rectangle will moved to the bottom in line with object that is in the lowest position.

Scale Selection



The scale selection tool allows part, or all, of the layout to be increased or decreased in size. Click and hold the left mouse button on the workspace, drag the mouse until all the objects you wish to scale are within the red rectangle, release the left button. Left clicking on the scale selection tool will show a sliding scale as shown,



Moving the slider to the right with the mouse pointer will increase the size of the selected area, for example x2 will double the size. Moving the slider to the left will decrease the size of the selected area, for example /2 will half the size.

Rotate



Use the rotate left or right buttons to rotate any non circular or pictorial shape or device. Select the object to be rotated by left clicking the pointing device on the object and then rotate left or right by clicking the left or right buttons.

Other Tools

New Document



Opens a new blank layout page in a separate window.

Open an Existing Document



Opens a previously saved layout, a file browser tab will open when this is selected.

Print



Prints the current layout.

Cut



Cuts (or removes) a highlighted object and places it on the clipboard.

Copy



Copies a highlighted object and places a copy on the clipboard.

Paste



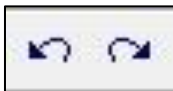
Inserts (or pastes) the current contents of the clipboard to the area selected.

Delete



Deletes a highlighted object.

Undo/ Redo



Undo will reverse the last action carried out, Redo will undo the previous change. Be careful not to use the rotate tool by mistake as the icons are very similar.

Show Grid



A grid will be displayed on the workspace, this helps to align items on the layout. The grid will not be visible when the layout is transferred to the Data Manager. The size of the grid boxes can be altered by selecting the "View" tab and selecting "Preferences".

Snap to Grid



Objects will be aligned to the grid when this tool is used.

Preview Layout



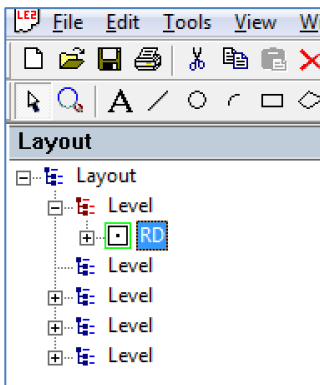
The layout can be previewed (shown as it will appear in the Data Manager) by clicking on the Show Preview tool.

Note: To get a true indication of the sizes of text and boxes, this preview window and the drawing page window must **not** be maximised at the time of preview.

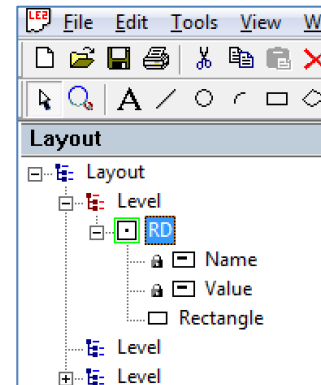
To go back to the main layout editor, click on the "Show Preview" tool again.

Linking Device Objects to Controller/Input Names

In order to have a successful layout, each device object must be associated (or mapped) to a controller logged onto the Data Manager or a direct input on the Data Manager (such as a temperature probe). To form this association, the "Name" of each device object (circular, arc, rectangular, polygon and pictorial objects) needs to be changed from its default name (such as AD for arc device) to the name the controller or input has in the Data Manager (as it appears on the Data Manager device list). Use the select tool to click on the controller object in the workspace. The item in the layout menu on the left of the page, relating to the item just selected, will be highlighted in green, as shown below.



The item can now be expanded by clicking on the "+" symbol, as shown on the right. Right clicking on "Name" and selecting "Properties" will display a text box where the device name can be changed from the default name (AD in this example) to the name of the controller or input the device is to be linked to (RC10-1 for example). The name must correspond exactly to the name as it appears in the Data Manager devices list.



Repeat this operation until all devices represent controllers or inputs.

Adding a Device Item



Once the device has been linked to a controller or input, a value will automatically be displayed inside the device. This value is the same as the value that appears on the device list on the Data Manager, typically this will be the control value of a controller or the probe reading of a temperature probe directly connected to the Data Manager.

As well as displaying this default value, a device can be linked to a user definable value. This value will be displayed inside or next to the device on the layout.

Left click on the "Device Item" tool and left click again at a point inside the device where the value is to be displayed. The word "Value" will appear inside the device, this can now be linked to the value to be displayed. Using the pointing tool and left clicking on the device will highlight it in green on the layout list to the left of the screen. If the device on the list is not already expanded it can be expanded by clicking on "+". Right clicking on "Value" on the expanded list and selecting "Properties" will open a text box where the default text "Value" can be changed to the required value such as "Probe Temp". The text must correspond exactly to the name as it appears in the Data Manager.



Adding a Network Item

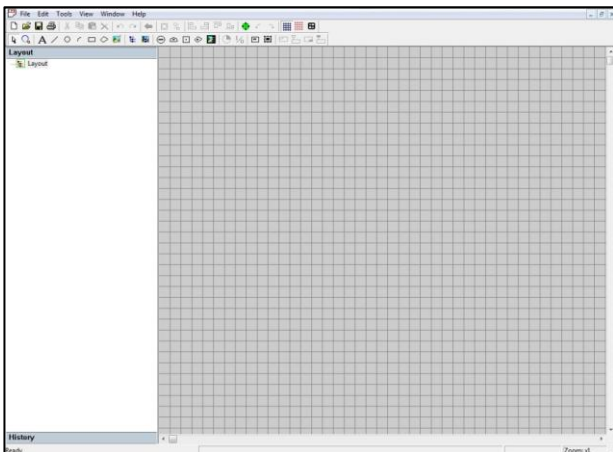
A “Network Item” can be placed anywhere on the layout. This can be any device and value from a device networked to the Data Manager.

Left click on the “Network Item” tool and left click again anywhere on the layout where the value is to be displayed. The words “Device” and “Value” will appear on the layout, these can now be linked to a device and value on the Data Manager. Using the pointing tool and left clicking on the “Device” and “Value” text will highlight the appropriate “Network Item” in green on the layout list to the left of the screen. Right clicking on this network item and selecting “Properties” allows the “Device” and “Value” text to be changed, for example “Device” can be changed to a controller name “HT07-1” and “Value” changed to “Logging Probe”. The text must correspond exactly to the name and value as it appears in the Data Manager. Selecting “Properties” also allows the text colour and font to be changed, this helps to differentiate it from other items.

Sizing to the workspace

If the layout does not zoom once it is on the Data Manager, use the “Layout Properties” and check the “Override applet zoom” and set a manual zoom level (a manual zoom level of 4 is a good starting point).

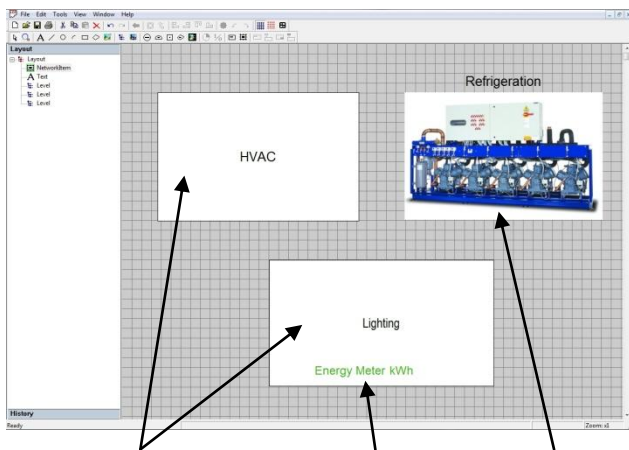
Creating a Layout



When layout editor is opened, a blank workspace is shown with a layout list to the left and the toolbar at the top. Using the “Grid” tool enables or disables a grid on the workspace, the grid is useful for lining up items on the layout. The grid is for guidance only and will not appear on the Data Manager. A blank workspace with grid enabled is shown on the left.

If a single level layout is required then it would be created at this point on the blank workspace (See “Creating a single level layout or a sub-level layout”).

Creating a Top Level



Rectangular levels. Network Item Pictorial level.

If different levels are required then the top level should be created first. Levels are useful for differentiating between control applications on the Data Manager and making the layout easier to navigate.

An example of this would be a site which has HVAC control, Refrigeration control and Lighting control. Three levels (pictorial or rectangular) would be created on the layout at this point with a text description for each such as “HVAC”, “Refrigeration” and “Lighting”. If a rectangular level is used, the description is added using “Properties”, if a pictorial level is used the description is added using a text box.

Network device items can be added to the top level layout using the “Insert Network Item” tool. An example of this could be “Current lighting energy usage” if a lighting energy meter is connected to the Data Manager.

At any point, a preview layout can be viewed using the “Show Preview” tool, this gives an indication of how the layout will appear (in terms of scale) on a PC.

Creating a single level layout or a sub-level layout

A layout diagram (or sub-level) for each level can now be created.

Double clicking on a level (such as HVAC) will open a new, blank workspace. In the above example, three complete layouts would need to be created, one for each level.

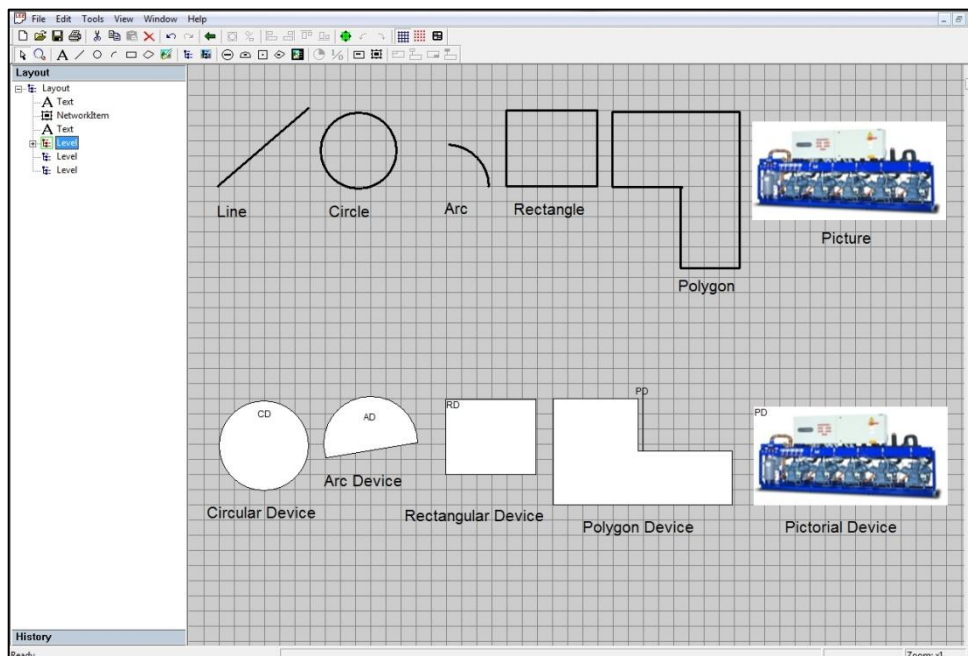
If the complete layout only requires one level then this would be created in the same way as a sub-level.

If an AutoCAD drawing of the layout is available then the DXF file can be imported by clicking “File” and Selecting “Import DXF”. This drawing will then be added to the blank workspace, if the drawing has multiple layers then these will be shown on the layout list to the left of the workspace, the layout can then be constructed around the AutoCAD drawing. Using the layout list, the AutoCAD drawing or layers within the drawing can be removed at any point.

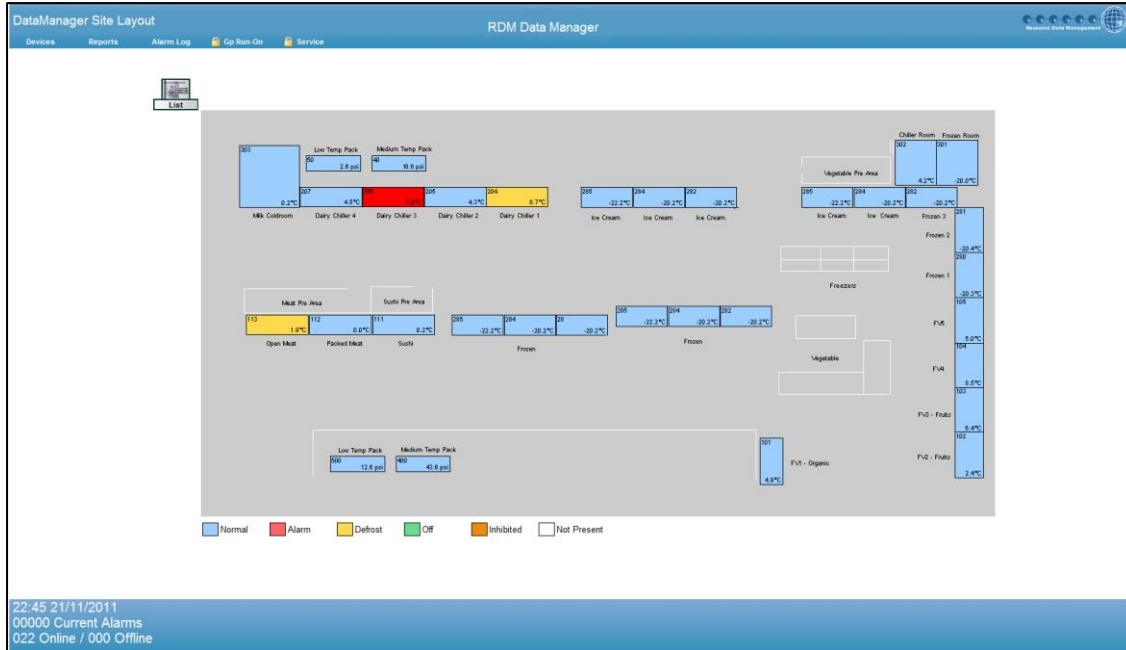
Simple line diagrams can be created on the layout using the insert line, circle, arc, rectangle and polygon tools. These items have no connection to the Data Manager so should not be used to represent a controller, for example. Pictures can be added in the same way using the “insert picture” tool.

Diagrams can also be created by using the insert circular device, arc device, rectangular device and polygon device tools. These items are similar to the line diagram tools described in the previous paragraph but can be linked to various values in the Data Manager, they also appear as solid items on the layout. Pictorial devices can be added in the same way using the “insert pictorial device” tool.

An example of each of these items is shown below,



Each of the devices has a default name attached such as CD for circular device, AD for arc device and so on. These names can now be changed to match a controller or item on the Data Manager. If a device name is changed to LTB-04 for example and LTB-04 is a controller logged on to the Data Manager then that device will now be linked to that controller. The device will now change color depending on the status of the controller it is connected to, for example normal is blue and alarm is red.



In the above example, a simple layout has been created using only rectangular devices. The name of the controller the device is connected to is shown in the top left hand corner and it's current control value is shown in the bottom right hand corner. Yellow devices are in defrost and the red device is in alarm, all others are blue and are normal. If a device has not been connected to a controller or device it will remain white.

302 - Dairy Coldroom

Online since 23:50 22/09/11 Performance - 1.0

Name	Value	Units	Name	Value	Units
Control temp.	4.3	°C	Display temp.	4.3	°C
Air on Probe	3.8	°C	Air off Probe	4.8	°C
Evaporator Probe	-8.2	°C	Suc. Line Probe	4.3	°C
Superheat	12.5	°C	Defrost Probe	?????????	°C
Logging Probe	?????????	°C	Plant Fault 1	OK	
Door Sensor	Closed		Person Trapped	OK	
Case Clean	Off		Ext Defrost	Off	
MOP	Off		TPI	1.0	
Valve Perf	1.9				
Liq. Line Valve	Open		Alarm	Off	
Defrost Control	Off		Lights	Off	
Case Fans	On		Last Def. Time	18:30	hrs:min
Last Def. Length	00:30	hrs:min	Last Def. Temp.	7.3	°C
Last Def. Type	Network		Door Open Time	00:00	hrs:min
Door Open Length	00:00	hrs:min	Timer	On	
Setpoint Offset	?????????				
Control State	Normal				

■ IP, Fixture is on pack 1 (400)

Clicking on any of the boxes will open up a current values page showing the current parameters, a typical controller page is shown. This page will vary depending on the type of controller being viewed.

An additional parameter can be added to a device using the "Insert Network Item" tool.



In this example, a rectangular device has been given the name 333. A device item and a network item have been inserted, the device item appears in black as "Value" and the network item appears in green as "Device Value". The network item can be placed anywhere on the layout, the device item has to be placed within the

device. The “Value” text in black is changed to match a value within the controller, in this case “Air off Probe”. The “Device Value” text in green is changed to match a controller name and a value within that controller, in this example the controller is “333” and the value “Air off Probe”. When the layout is loaded onto the Data Manager, these actual values will be displayed on the layout as shown on the right hand diagram. The controller name is shown in the top left hand corner (333), the current control value shown in the bottom right hand corner (1.4), the inserted device item is the Air off Probe (-0.7) and the inserted network item is the Air on Probe from controller 333. The inserted network item can be from any controller, in this example it is the same controller as the device (333).

This process is repeated for all the devices on the Data Manager that are to be represented on the layout diagram. If a multi level layout is being created, clicking on the back arrow on the toolbar will revert back to the top level layout. Other individual sub levels can be selected and a layout created for each one.

Saving the layout

Once the layout is complete, it can be saved to the same file as started by pressing the save icon, or it can be saved to a new filename by using the "File" feature on the toolbar and selecting the "Save As" function. The file will be saved with a .le2 extension.

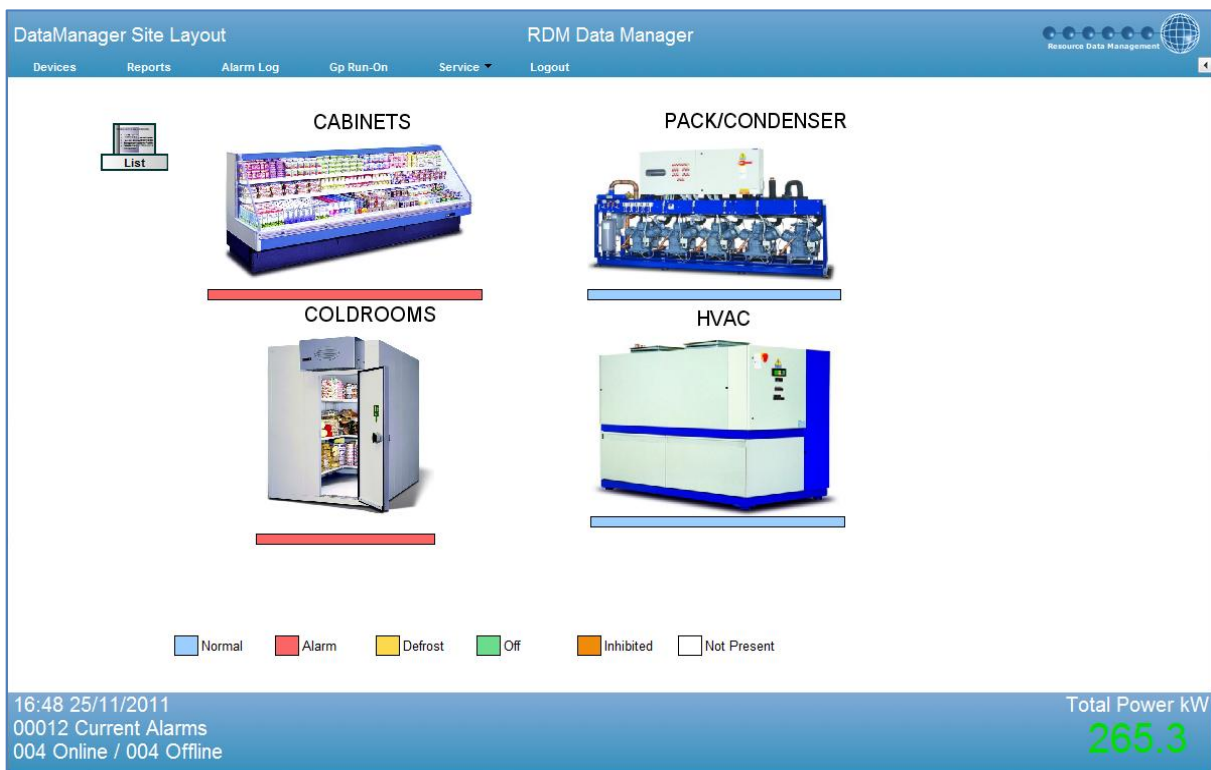
Transferring a Layout onto the Data Manager

Before transferring a layout onto the Data Manager it is advisable to save any existing layout from the Data Manager first as any existing layout will be deleted when a new layout is loaded. (See “Saving an Existing Layout from the Data Manager” later in this section).

Connect to the Data Manager using a web browser in the usual manner. (See “Connecting a PC to the Data Manager” in the Data Manager Commissioning Guide (PC), for more details).

From the home page, select “Service”, and enter user name and password. Select “General” then select “Send Layout”. Browse to the location of the .le2 layout file to be used and select “Upload”. A message “Layout Upload Complete” will be displayed.

Returning to the home page and selecting “Devices” will now show the top level of the layout diagram (if there is more than one level). There is an option in the left hand corner to show a list of devices if required.



A typical top level layout as it appears on the Data Manager is shown above. A blue bar underneath each pictorial level indicates a normal condition. A red bar under the cabinets indicates that one of the devices is in alarm condition. Left clicking on any of the four pictorial levels will open up a sub level where the individual items can be viewed in more detail. Right clicking will return back to the top level.

Saving an Existing Layout from the Data Manager

From the home page, select "Service", and enter user name and password. Select "General" then select "Get Layout". From the Windows prompt select "Save" and browse to the PC location where the layout is to be saved and select a file name (default is "Layout"). Once the layout has been saved a windows message "Download Complete" will be displayed. The layout is now saved on the PC.

Removing a Layout from the Data Manager

Before removing a layout from the Data Manager it is advisable to save it to a PC as the layout will not be retained anywhere on the Data Manager. (See "Saving an Existing Layout from the Data Manager").

From the home page, select "Service", and enter user name and password. Select "General" then select "Remove Layout". A message "Are you sure you want to remove the layout?" will be shown twice to ensure that the layout is not removed in error.

When "Devices" is selected on the Data Manager a list of controllers will now be shown instead of a layout.