

designmachine

2.0

User's Manual

<http://www.simplyreliable.com>

SimplyReliable

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Design Machine™ Overview

Thank you for your purchase of Design Machine™ by Simply Reliable Software. We believe this will be one of the most powerful tools in your toolbox. Now every job big or small, commercial or residential, from electrical to networks to A/V can all have a proper drawing and cable schedule.

Currently there are five versions of Design Machine™ all five will be covered in this user's manual.

Design Machine™ Standard provides the ability to create your own devices and projects for virtually any device in any industry. Standard is included with all Design Machines. Simply click to connect devices and watch your drawing build automatically. Additionally it creates a cable schedule with wire numbers and four printing choices, Tabloid/Super B, and Letter/A4 with your choice of sort by wire number or by room.

Design Machine™ for AMX takes over once you have added all the devices into a Visual Architect program and created the System Report. Design Machine™ then reads the file in just a few minutes automatically creating a block schematic diagram for how the installers in the field should connect the system. Additionally it creates a cable schedule with wire numbers and four printing choices, Tabloid/Super B, and Letter/A4 with your choice of sort by wire number or by room.

Design Machine™ for Control4 takes over once you have completed the bindings (connections) in Composer and saved the c4p file. Design Machine™ then reads the file in just a few minutes automatically creating a block schematic diagram for how the installers in the field should connect the system. Additionally it creates a cable schedule with wire numbers and four printing choices, Tabloid/Super B, and Letter/A4 with your choice of sort by wire number or by room.

Design Machine™ for Crestron takes over once you have added all the devices into a Simple Windows program and saved the smw file. Design Machine™ then reads the file in just a few minutes automatically creating a block schematic diagram for how the installers in the field should connect the system. Additionally it creates a cable schedule with wire numbers and four printing choices, Tabloid/Super B, and Letter/A4 with your choice of sort by wire number or by room.

Design Machine™ SmartOffice provides the ability to import proposals from Simply Reliable's SmartOffice. Simply click to connect devices and watch your drawing build automatically. Additionally it creates a cable schedule with wire numbers and four printing choices, Tabloid/Super B, and Letter/A4 with your choice of sort by wire number or by room.

Required Software

The Application

Design Machine is a Windows based program. You may use Windows XP, Vista, or Windows 7. Simply reliable Software recommends Windows 7. You can run Design Machine™ in a virtual Windows application on a Mac such as Parallels.

The Drawing

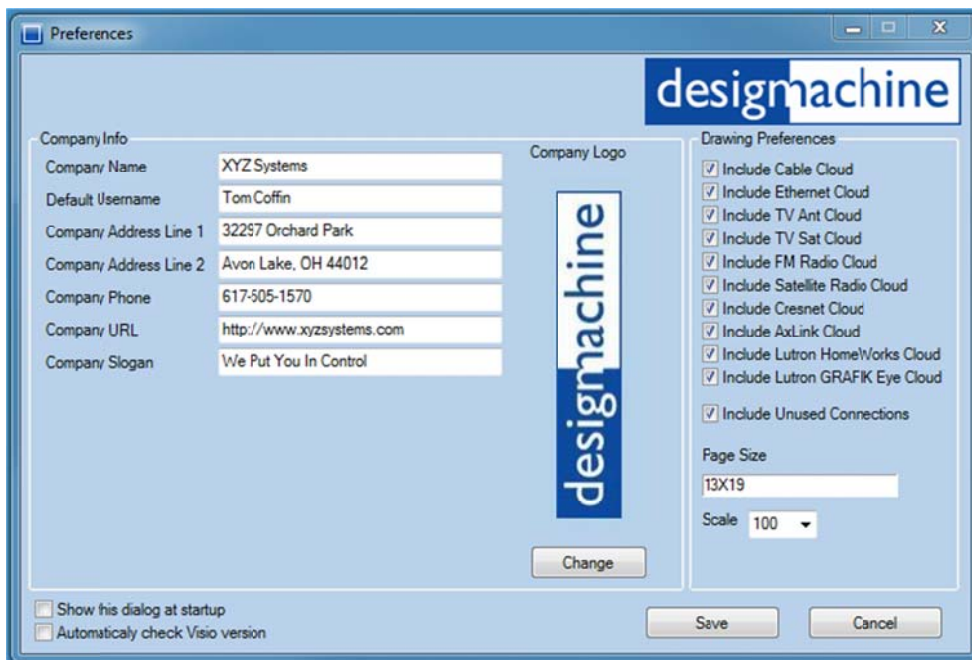
In order to view and/or print the drawing, Design Machine™ requires a version of Visio to be installed. You may choose Visio Viewer, which you can download for free from Microsoft. Should you want to adjust the drawing in Visio you will need either Visio 2007 or Visio 2010. These are sold separately and are not included with your purchase of Design Machine™. However we strongly recommend that any changes to the drawing be implemented in Connection Center and then simply push the build drawing button again. This will update the .sr9 file associated with the project and is much faster.

The Cable Schedule

Design Machine™ creates a .xls file for printing the cable schedule. If you have Microsoft Excel, then Design Machine™ will open that program upon creating the cable schedule. This function is supported for Excel 2007 and Excel 2010. Should you not have Excel, then Design Machine™ will create a .csv file that you use in any program that supports comma separated values.

Application Preferences

The first screen you will see when you launch Design Machine™ for the first time is called the “System Preferences” screen. Here you can make choices for how you want your drawings and documentation to work.



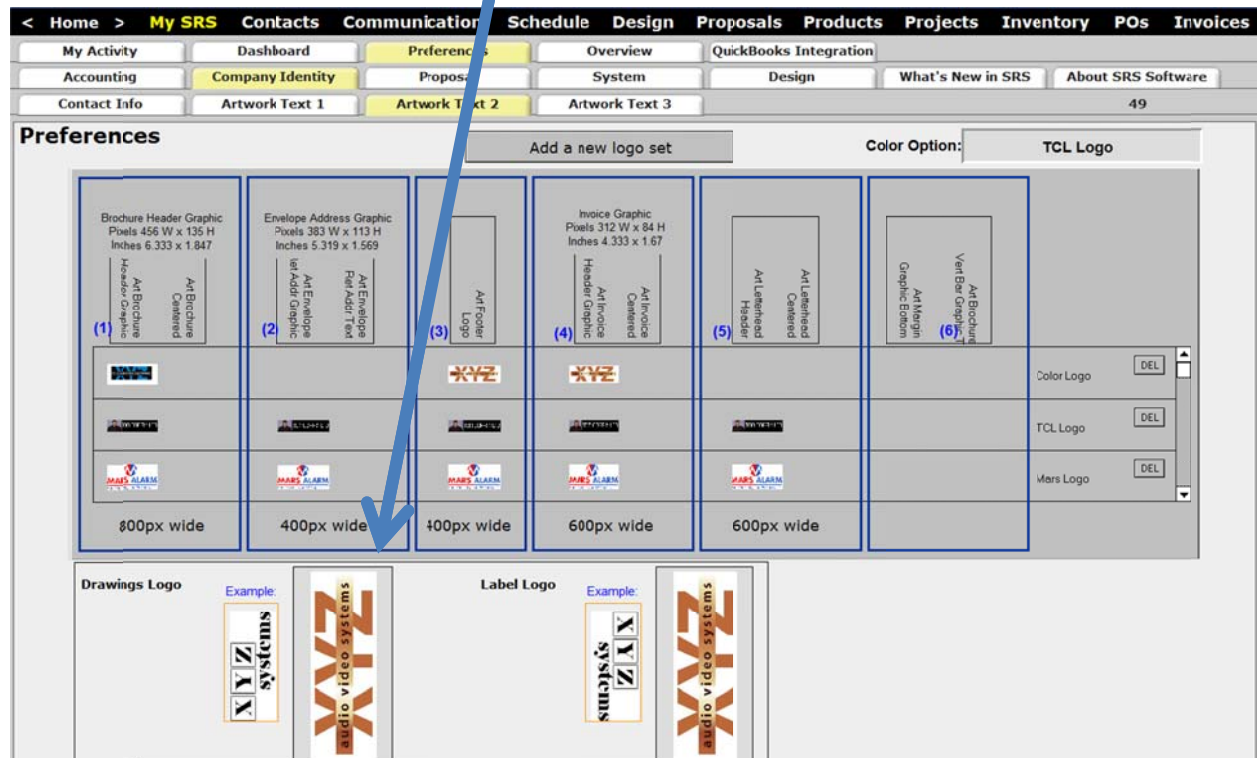
Company Info

If you are using Design Machine for SmartOffice this information is filled in automatically when you import a proposal. For other versions you may manually enter this information. To edit click in the dialog box and type in the information you wish to show on the drawing and the cable schedule.

Application Preferences Cont.

Company Logo

Design Machine™ will automatically insert your logo if you are using it with SmartOffice. You must have a logo in SmartOffice prior to launching Design Machine™ for the first time.



If you wish to change the logo, click the button under the logo. This will launch a window for browsing to the location you store your logo.

Design Machine will automatically turn your logo vertical if it is a horizontally designed logo so that it looks appropriate on your drawing.

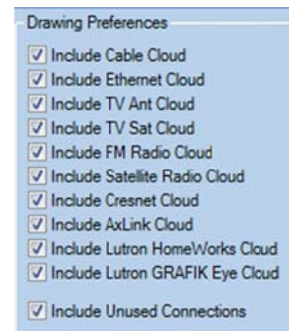
You can flip the logo 180° by right clicking on the logo.



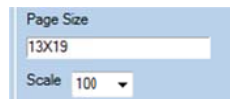
Application Preferences Cont.

Clouds

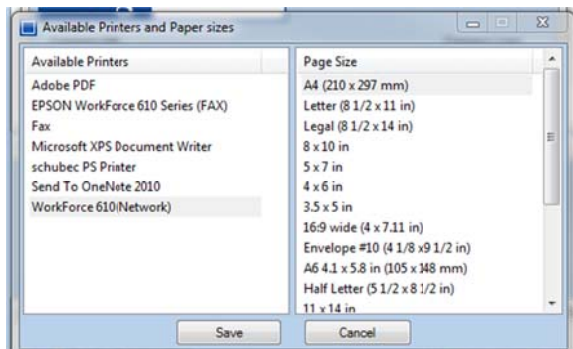
Control system programs do not generally pay attention to Ethernet, or RF wiring for TV's and such as they are not important in their program. However you still have to wire for them. Design Machine™ makes it easy. You can turn on whichever cloud is important to you and turn off the ones that are not. Design Machine™ looks at the connection data and creates a room called "Headend" and will then draw the appropriate wires to the headend room and create a symbol with the appropriate cloud designation such as Ethernet, Cable, etc. Here you are choosing what "Clouds" you usually would like to have on your drawings and documentation. You can change your cloud settings on the "Drawing Preferences" for an individual drawing.



Page Size and Scale



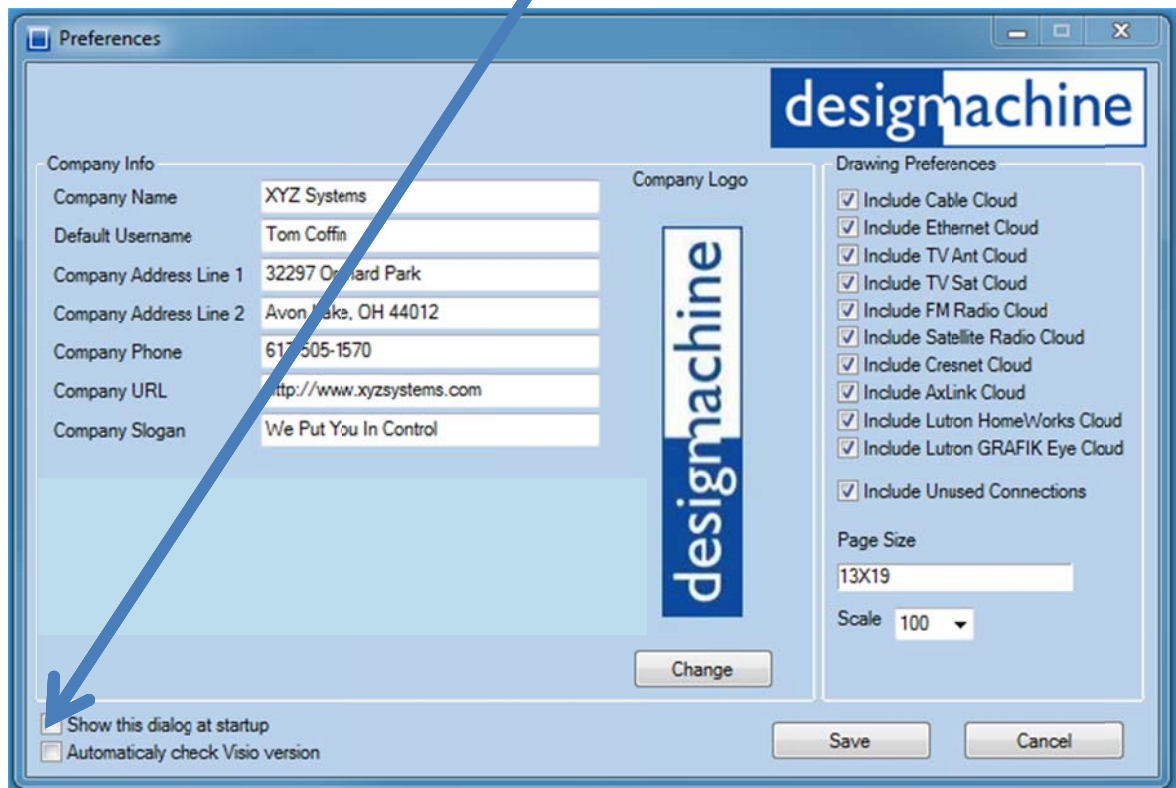
Design Machine™ allows you to set a default printer and paper size as well as scale for the application. Click on the white box to setup printer and page size. You can also change your page size and scale settings on the "Drawing Preferences" for an individual drawing.



Application Preferences Cont.

Start Up and System Check

This dialog will load every time you launch Design Machine™, you can turn it off by unchecking the show this dialog at startup box.

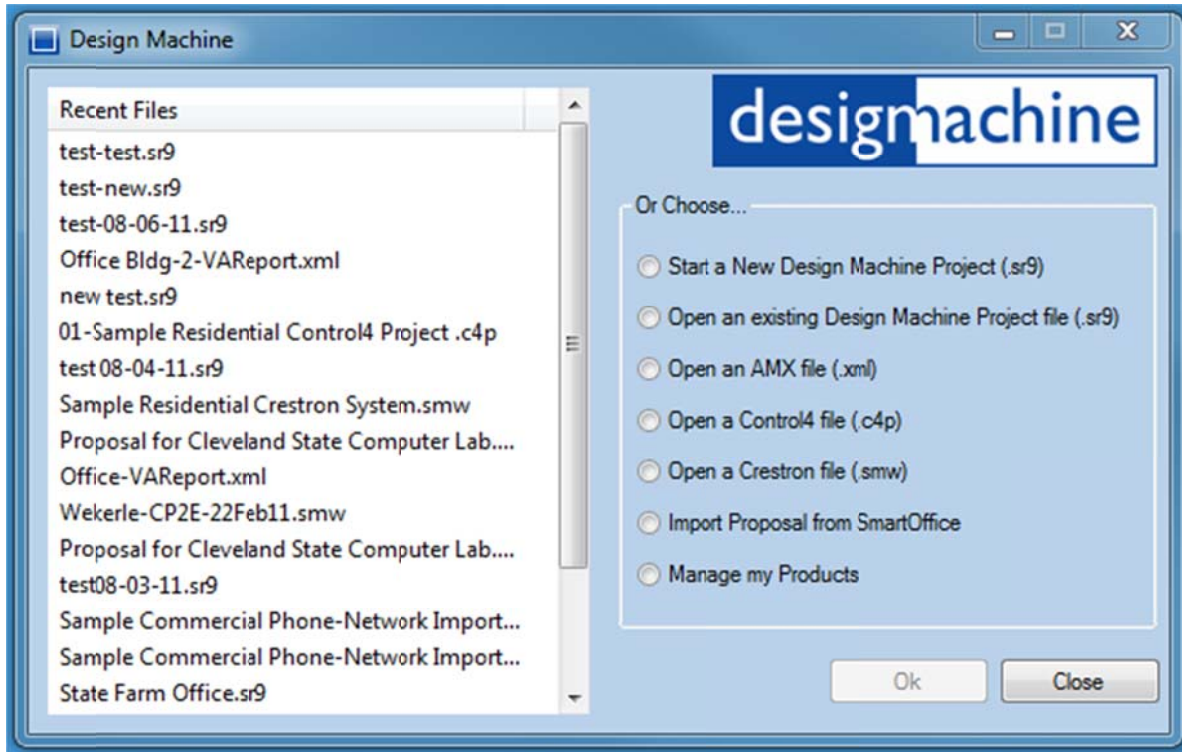


If you know that you have Visio 2007 or 2010 or Visio Viewer 2010 installed on your system you can uncheck the automatically check Visio version box. If you are unsure Design Machine™ will check for the Visio version automatically. If you do not have Visio a dialog warning will warn you that it is required.

Choose a File

Choose One or Recent Files

On the right you can choose what type of file you would like to open. Your available choices will depend upon which Design Machine™ version you have purchased.



Start a New Design Machine Project

This will open the Project Manager and allow you to add rooms and devices.

Prior to closing the Connection Center you can save the drawing. It is saved as a .sr9 file extension. For more on file locations see page 14.

Choose a File Cont.

Open an Existing Design Machine File (.sr9)

This allows you to open a file you had previously been working in and continue. Choose “Open an Existing Design Machine File (.sr9) and click “OK.” This will open a window for browsing your files. See page 14 for more information about file locations.

Open an AMX File (.xml)

In Visual Architect add devices in the program and connect them to their appropriate ports and save the file. Then build the System Report inside Visual Architect. Launch Design Machine™ and choose “Open an AMX file (.xml) then click “OK.” The Drawing Preferences screen will then launch allowing you to make choices on how your drawing will be presented.

Open a Control4 Composer File (.c4p)

In Composer create your bindings (connections) and save the file. Design Machine™ will look for these files in the Control4\Projects folder. See more about file locations on page 14. Choose “Open a Control4 Composer File (.c4p) then click “OK.” The Drawing Preferences screen will then launch allowing you to make choices on how your drawing will be presented.

Open a Crestron File (.smw)

In Simple Windows load the devices in the program and connect them to their appropriate ports and save the file. Launch Design Machine™ and choose “Open a Crestron File (.smw) then click “OK.” The Drawing Preferences screen will then launch allowing you to make choices on how your drawing will be presented.

Import Proposal from SmartOffice

Prior to launching Design Machine™ select the client and the proposal in SmartOffice. Launch Design Machine™ then choose “Import Proposal from SmartOffice” then click the OK button. This will load the selected proposal into the Connection Center so that you can connect the devices.

Prior to closing the Connection Center you can save the drawing. It is saved as a .sr9 file extension. For more on file locations see page 14.

Manage my Products

Design Machine™ provides a database to store device information such as model number and connection points. Here you can build new devices or import from your SmartOffice library.

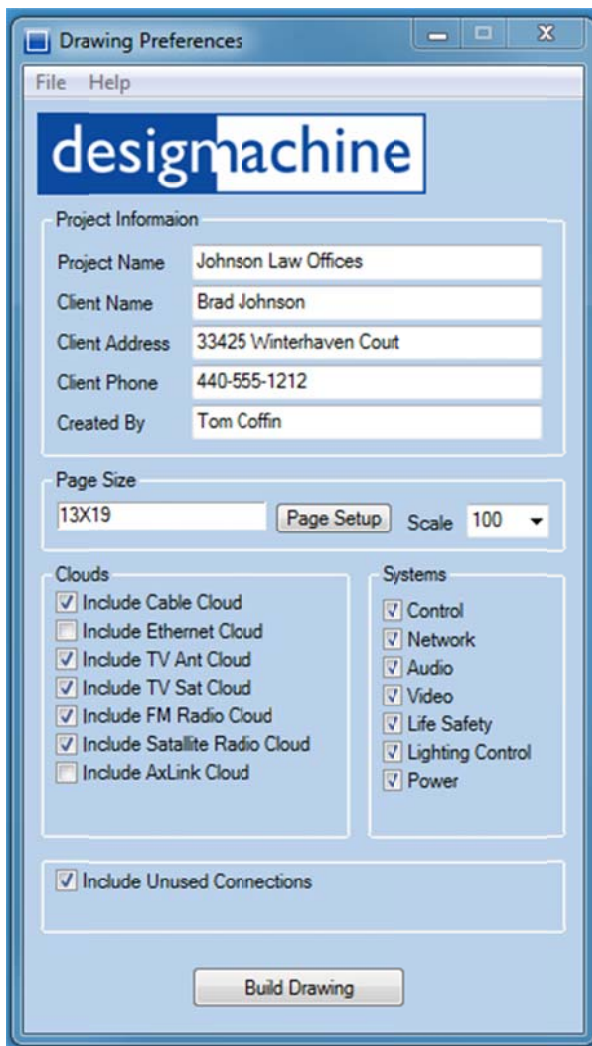
Recent Files

Design Machine™ keeps track of the files you have been working in. To go back to one of these files select the file in the “Recent Files” window and either double click or click once to select and then click the “OK” button to load the file.

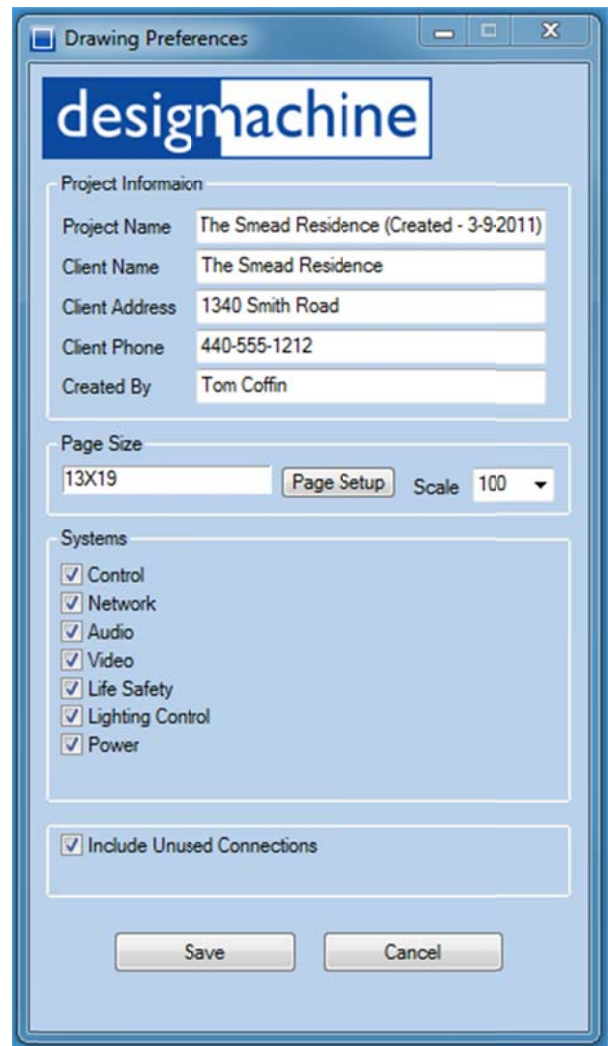
Drawing Preferences

Drawing Preferences

Once you have chosen which type of file to open (AMX, Control4 or Crestron) imported a proposal from SmartOffice, or completed making your connections in Connection Center you are directed to the “Drawing Preferences” screen. Here you make changes to how the drawing and documentation are printed and what information is included. This screen is similar to the System Preferences screen but is specific to the current project only. To review what these choices are and how to change them please refer to [page 3](#) of this manual.




(AMX - Control4 – Crestron)

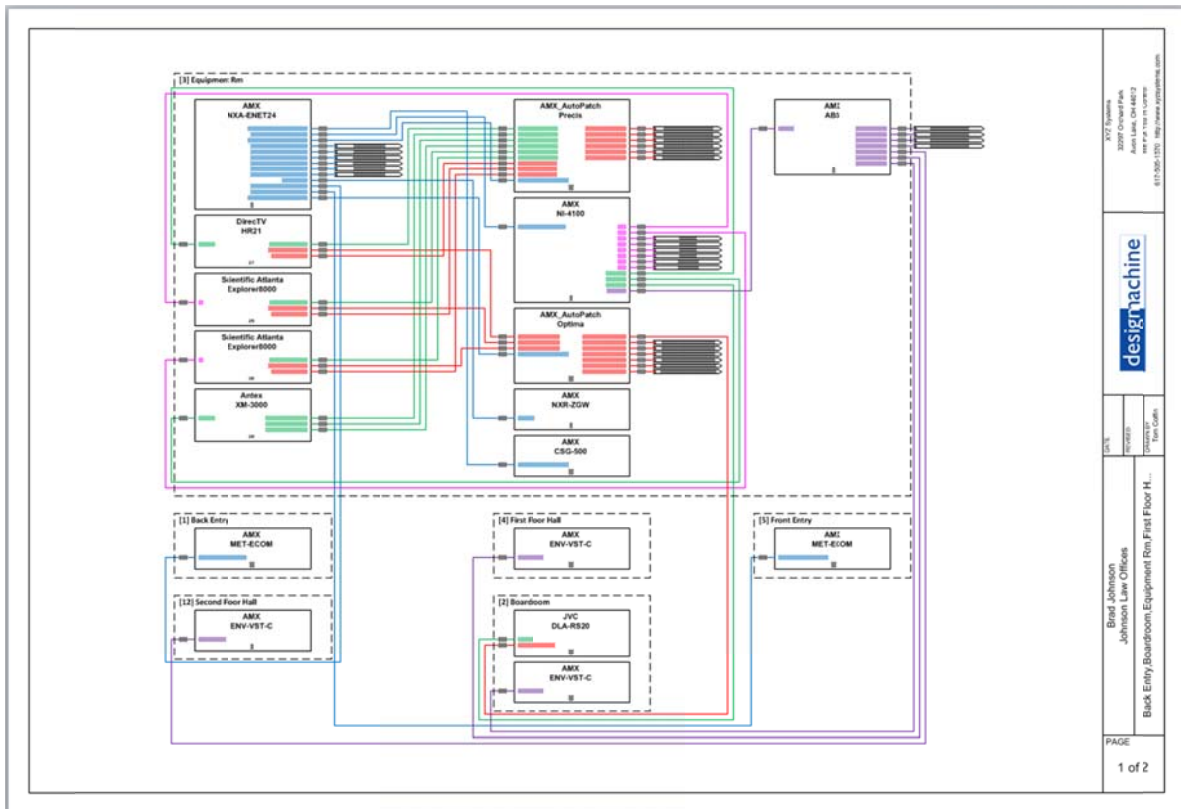


(Standard – SmartOffice)

The Block Schematic Drawing

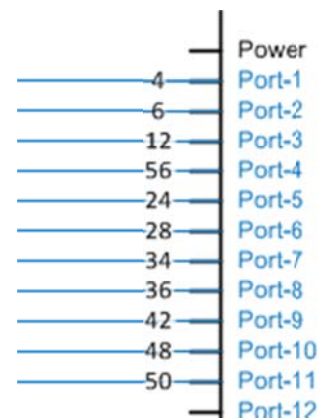
Create Your Drawing

From the “Drawing Preferences” screen click the  button. This will begin the automated process of creating your block schematic drawing as well as the cable schedule.



Wire Numbers

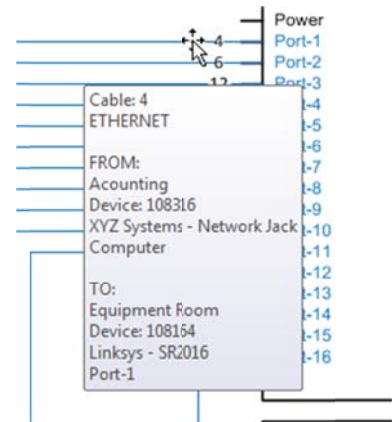
Wire numbers are generated automatically inside the drawing and then reported to the cable schedule. Wire number labels on the drawing are placed at the beginning and end of the wire. If a wire runs between two pages the page, room, and device number as well as connection name are located in the feather or arrow.



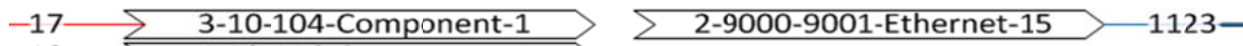
The Block Schematic Drawing Cont.

Mouse Over

Pausing the mouse over a wire will pop up a dialog box providing additional data about this wire.



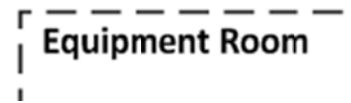
Feather and Arrows



In cases where there are many rooms and devices it will be necessary to have several pages in a drawing. When this is the case at the bottom of the drawing you will see a rectangle with wires connected. In the box will be the sheet name and number the wire is jumping to.

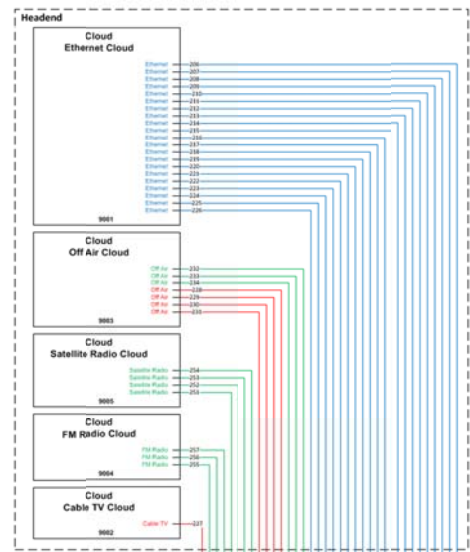
Rooms

Rooms are designated by a heavy dashed line around equipment.




Headend and The Clouds

A room called the "Headend" is automatically created when you turn on the clouds. Its purpose is to show a singular place for the devices cloud connections to terminate. In the application or drawing preferences you can decide which clouds you would like to have on your drawing.



The Cable Schedule

Creating Your Cable Schedule

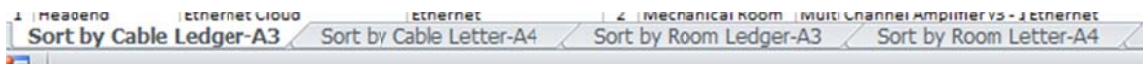
From the "Drawing Preferences" screen click the  button. This will begin the automated process of creating your block schematic drawing as well as the cable schedule.

Coffin_Test_08-22-2010
Cable Schedule - Sorted by Wire ID

Wire ID	Room	Device	Manufacturer	Part Number	Quantity	Notes	Manufacturer	Signal Type	Location	Wire Type	Wire Size	Panel Size	Panel	Notes	Panel
101	Room 101	Device 101	Manufacturer 101	Part Number 101	Quantity 101	Notes 101	Manufacturer 101	Signal Type 101	Location 101	Wire Type 101	Wire Size 101	Panel Size 101	Panel 101	Notes 101	Panel 101

2/16/2011

Design Machine™ creates four worksheets. Two are sorted by the wire ID and two are sorted by the room the wire originates. Two are formatted for Tabloid/Super B and two are formatted for Letter/A4 size.



The Cable Schedule Cont.

The Headers

The headers contain info about your wires. The wire ID is the number assigned to the wire. There is a "From" section and a "To" section these each contain the page of the drawing where the wire originates or terminates, the room, device and connection where the wire originates or terminates. "Signal Type" defines the type of connection a wire can connect to ie: stereo, HDMI, spkr. Wire Type and Wire Color as well as Patch Cable are future feature enhancements. When these are added a new section in preferences will allow you to define what type and color of wire are used with each signal type. The patch cable will be determined if a wire is isolated to a single room. The Pulled, Toned, and Tested fields provide documentation for who has taken responsibility for the wire run.

Wire ID	From			To			Signal Type	Wire Type	Wire Color	Patch Cable	Pulled	Toned	Tested
	Pg	Room	Device	Connection	Pg	Room							

File Locations

Locating Your Files

The first time Design Machine™ builds a project or creates a drawing it creates a folder in your documents folder called Design Machine. It should look as follows:

Windows 7/Vista C:\Users\User Name\Documents\Design Machine

Windows XP C:\Documents and Settings\User Name\My Documents\Design Machine

Inside the Design Machine folder you will find two additional folders; "Projects" and "Drawings". Design Machine™ saves the block schematic drawings and cable schedules in the "Drawings" folder. The Project file (.sr9) is saved in the "Projects" folder.

Connection Data

AMX Connection Data

Design Machine™ reads the system report xml file created in Visual Architect. It then creates all the connections form the information provided by this file.

Control4 Connection Data

Design Machine™ reads the Control4 .c4p Composer file. It then creates all the connections form the information provided by this file.

Crestron Connection Data

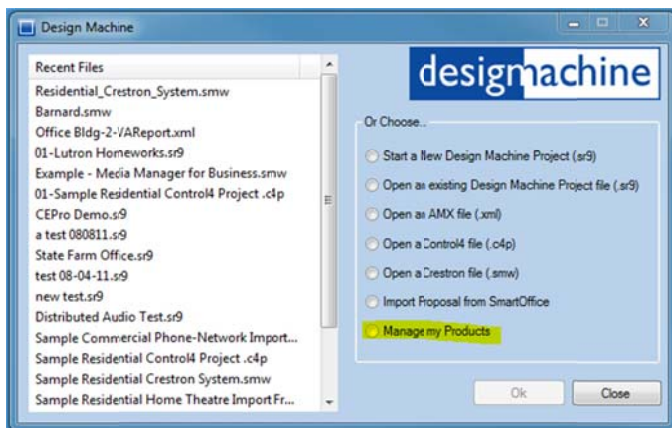
Design Machine™ reads the Crestron .smw Simple Windows file. It then creates all the connections form the information provided by this file.

SmartOffice Connection Data

Design Machine™ reads the SmartOffice proposal items and matches them to the device connection data in Design Machine. If a user has connection data in SmartOffice it must first be imported into Design Machine.. It then creates all the connections form the information provided by this file.

Creating Your Own Connection Data

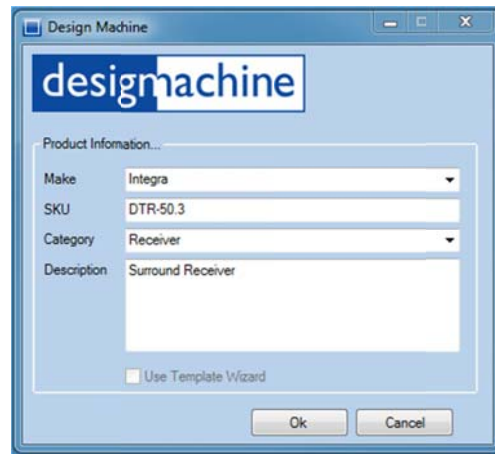
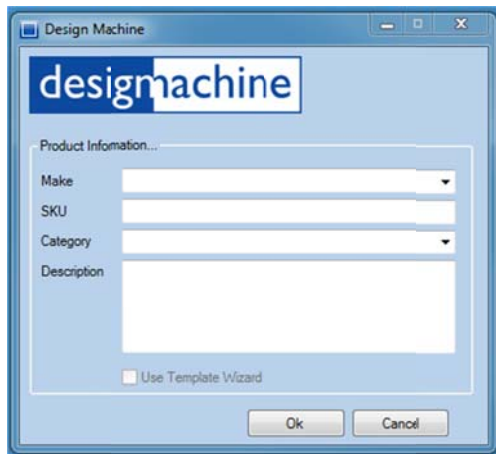
From the “Choose Menu” in Design Machine click “Manage Products”



Connection Data Cont.

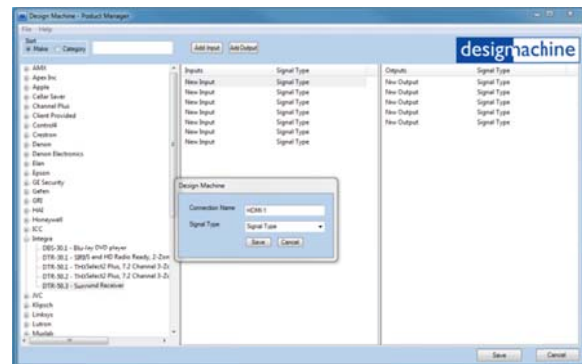
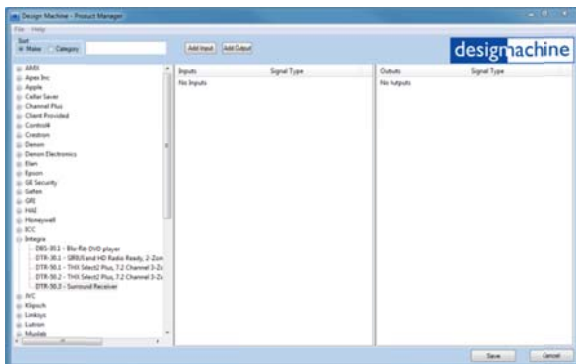
Creating a Product

From “File” select “New” then select “Product.” The dialog box below will pop up. Enter the data in the text boxes. Previous manufacturers will be in a drop down menu, should this be a new manufacturer in your list simply click in the box and type the name. Enter a sku and select a category from the drop down menu. Write a brief description to make it easy to differentiate from other devices in your library.



Creating Connections

You can add connections by selecting a product in the product tree, then click “Add Input” or “Add Output.” Right clicking on the newly added connection will launch a menu for editing, duplicating, or deleting that specific connection.



Technical Support

The Design Machine Online Community

Design Machine™ is supported by an online forum called The Design Machine Community. You must register to obtain access. The Community is located at <http://www.simplyreliable.com/community/> Simply Reliable monitors this site daily and will respond to your questions and/or issues within 24 hours.

Video Training

Training for all versions of The Design Machine™ can be found online at <http://www.simplyreliable.com/newsite/supportdm/video.php>

E-Mail

Click on <http://www.simplyreliable.com/newsite/supportdm/emailform.php> to email your questions.

Activation Code

You may want to print this user's manual and enter your activation code here as a reference. You can locate this under "Help"/About Screen.

Activation Code

Thank you for choosing Design Machine™