# eVSM v11 Common Functions Reference Manual



This reference manual complements eLeanor with functional descriptions of common functions which are not covered in the toolbar guide.

The manual is designed both for on-screen viewing and print. For on-screen usage, the manual is best viewed in Acrobat Reader. To search, use the Ctrl+F shortcut. Also, it is a good idea to set the Acrobat view to "Show two pages side-by-side".

For hardcopy, print the manual on double sided paper and use the table of contents to navigate..

#### Use CTRL + F to search within this document

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## eVSM Productivity Tips Add-ons by Example

When you need the same add-ons on multiple centers, just setup one center with the desired addons. Then use the "Addons by Example" command to replicate on all other similar center on the map.



You can restrict the target centers by selecting the ones you wish to replicate on.



Add-ons by Example only adds any missing add-ons. It does not delete them.

#### Inputting time values in any unit

Often the time data (cycle times, process time, lead time, etc.) need to be entered in different time units (secs, minutes, hours, days) in different parts of the map. You can of course, type in the value and then double-click on the units field to set the desired unit. For time units, there is a faster way. If you type in "30s" and then press the Enter key, the value will be set to 30 and units to Sec.

Examples:

45m + Enter →	Cycle Time	45	Min
3h + Enter	Cycle Time	3	Hr
3m 20s + Enter	Cycle Time	200	Sec
5h 40m + Enter	Cycle Time	5.7	Hr

### Charts

eVSM provides four ways to create charts:

1. Plot Name Values – this allows you to plot a simple bar chart for any variable.



#### **Building Custom Charts**

The Quick eVSM stencils include many standard charts to visualize capacity, utilization, leadtime, resources, etc. These charts are developed with the eVSM base chart shapes. The base chart shapes are available in the main eVSM stencil and can be used to create custom charts.



The following shows how to create custom charts from the XY and Ladder chart shapes. Similar customization options are available for all other charts except the Kaizen Matrix charts.

### **XY Charts**

Here are some example custom charts you can create with the XY chart shape.



### **Steps to Create XY Charts**

The data for the chart must exist in valid eVSM data shapes with valid variable names, and units. In this example, we will plot the Process Time and Lead Time data.



1. Drag out the XY Chart shape from the main eVSM stencil and open the chart control form.





#### 2. Add data variables to chart



4. Update. The chart will update automatically on Solve. The Settings dialog allows you to switch automatic update off. To manually update, click the "Plot Chart" command again. There is also an "Update Chart" command available in the chart right-mouse button menus.

5. Where you have multiple paths, the Path Filter List shape can be used to specify which paths are represented on the chart.



## Ladder Charts

Example Ladder charts



#### **Steps to Create Ladder Charts**

The data for the chart must exist in valid eVSM data shapes with valid variable names, and units. In this example, we will plot the Process Time and Lead Time data.

1. Drag out the XY Chart shape from the main eVSM stencil and open the chart control form.





2. Select variables and display options



4. Update. The chart will update automatically on Solve. The Settings dialog allows you to switch automatic update off. To manually update, click the "Plot Chart" command again. There is also an "Update Chart" command available in the chart right-mouse button menus.

5. Where you have multiple paths, the Path Filter List can be glued to the ladder chart shape. Then double-click to open the filter manager.



## Storyboards

A storyboard (sometimes called value stream board or a summary board) is often used to visually summarize a value stream. This may include a view of the current state, future state, improvement plan, key metrics, cost/resource/time requirements, etc. Here is an example:



Such diagrams can be created in Visio by simply copying content from it's source and pasting it as a picture. This however will not stay synchronized with the source and has to be maintained manually.

The eVSM Source/Target Image capability eliminates some of the maintenance grunt work. The function allows you to draw a window on any part of the source pages and show the content of the window as an image on the target page.

The source windows can exist on any page in your current Visio file or in an Excel file. The corresponding window on the target page can be refreshed any time with single command.



### **Steps to Create a Storyboard**

1. Use one or more Source Image shape on each of the source pages. Note the Source Image and Target Image shapes are available only in the main eVSM stencil. The shape comes out as a rectangular frame which can be sized to fit the content you wish to capture



2. On the target page, drop a Target Image shape for each source and pair it with the source.



## Swimlanes

The eVSM Swimlane function allows drawing of VSMs and flowcharts in swimlane layout, horizontally or vertically. The eVSM Swimlane shape is an implementation of the eVSM Table function.

To calculate totals or plot charts for each lane, see the Path List function.

Note: The swim lane function in native Visio is NOT supported with eVSM. The eVSM Calculator will not work if the Visio swim lane shape is on your drawing page.



## Try This:

1. Drag out the Horizontal Swimlane from the eVSM Information stencil.

2. Right mouse click on any of the lanes to bring up the modification menu allowing for row/column addition and modification.





3. Pick the "Select Table" command in the right mouse menu to highlight the yellow diamonds. Move these yellow diamonds to the required width and height positions. Then click the "Adjust Table" command in the right mouse menu.

4. Double-click the "Header" to edit the text.

5. To move the table to a new position on the map, click the "Select Table" command in the right mouse menu. Then drag the table to the desired location.

## **Custom Stencils**

Visio allows you to create custom stencils. The stencils may contain any shapes used in Visio diagrams. A custom stencil can greatly enhance productivity since it would contain everything you need and only what you need in a single place.

We generally DO NOT recommend creating custom stencils with eVSM shapes because:

- 1. Custom stencils need constant manual maintenance to ensure the content stays in sync with eVSM updates.
- 2. The eVSM combo shapes, i.e.. All the shapes in the Quick XXX stencils are NOT supported in custom stencils.
- 3. Sharing of custom stencils with your team is not trivial. You will need to show them where to put the custom stencils on their PC, how to ensure they have the current version, and how to open them from their map files.

#### **Steps to Create a Custom Stencil**



1. In the left-hand side stencils, click More Shapes > New Stencil

2. A new blank stencil will open on the left side. Right-mouse click on the stencil name and select the Properties command. This will open the following dialog. Give the stencil a short Title. This will appear as the stencil name when you close the dialog. It is a good idea to include a version number in the title. E.g. "My Stencil v2.01". The version number can be incremented with each update and will allow you to track updates.

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3. Each stencil is saved as a separate file. Save your new stencil with a short name in a safe known location.

4. You can now start dropping shapes into the stencil pane from the drawing page and also directly from the right-side eVSM stencils. You can arrange these in any order and personalize the names. You can also change the icon bitmap if you wish.

5. This new stencil will be available on all the pages in your current file. To attach the stencil to another Visio file, click "More Shapes > Open Stencil" and select the saved stencil file. A Visio map file "remembers" which stencils were open when you last saved the map file. So, when you later re-open the map file, the custom stencil will open in the same place provided the stencil file has not been moved or renamed.

6. To share the stencil with your team, just send the file to them telling them to put it in an accessible location, and then open the stencil from within their map file as described in step 5.

## **Category Filter**

Checking which resources contribute to which processes on large maps can get tedious. The eVSM Category Filter provides a simple way of highlighting processes of interest.

This function requires eVSM v11.36 or later and works with all eVSM stencils.

Below are the steps to setting up and running the Category filer, followed by an example.

# A. Compile a list of the Categories involved in your value stream.

#### Example:

Research & Development	-	R&D	
Engineering	-	ENGR	
Finance	-	FIN	
Procurement	-	PROC	
Planning & Scheduling	-	PLAN	
Laboratory	-	LAB Make up a short	unique
Production	-	PROD abbreviation or acr	onym for
Packaging	-	PACK each Catego	ory
Shipping	-	SHIP	

# **B. Declare each Category name as a variable name in the NUM**



# C. Drag out the Filter Container box from the eVSM main stencil



#### **D. Create the Filter Key**



# E. Use copies of the Blank shapes from the key container where needed on the map



#### F. Run the Filter



## F. Example

In this example you can see the processes associated with the yellow Categories, while the rest of the Categories are partly hidden from the view. The transparency level of the hidden shapes can be adjusted in the Settings dialog box.



Note how there are two groups of data blocks in the container. Data blocks glued to each other follow the "OR" logic, while the groups follow the "AND" logic.

So, it is showing processes associated with:

Level 1 [OR] Level 2 [AND] R&D [OR] LAB

## **Export Data Report to Excel**

The XL Report function provides a simple way to create Excel reports of map data. The data output may be filtered, grouped, and color-coded.



steps to create an Excel report:

1. Drop an XL Report icon on the map page from the eVSM Charts and Gadgets stencil.



2. Open the Edit Report Data dialog.

	Excel Report Generator	×
XL Report Edit Report Data Run Report Where From	Tag Prefix  Report Name    Image: A image of A image o	Add Modify Delete Move Up Move Down
	All  None    Tag Type  Even No's    Odd No's  Color Tags    ✓ White Tags  Arrow    ✓ Shp Tags  Cancel	Add Modify Delete Move Up Move Down

#### 3. Create Sets and select Variables to report



## **Printing in Visio**

Visio allows drawings of any size. The drawings can then be printed on any size paper supported and available on the printer.

When the drawing size does not match the paper size, you can either print across several sheets, or shrink (or expand) the drawing to fit the paper by clicking "File>Page Setup..." and then checking the "Fit to 1 sheet" radio button.

Page Setup	
Print Setup  Page Size  Drawing Scale  Page Properties  Layout and Routing  S    Printer paper	
Gridlines Print zoom: Fit to exactly 1 shee	et )
	Cancel

The "File>Print Preview" function can and should be used to assess the print output before committing the drawing to paper.

### **Printing Problems**

The eVSM Software essentially generates a Visio file. The printing of the file is handled by standard Visio functionality. Problems printing from Visio could be due to Visio, the print driver, or the printer.

Here are some suggestions if you have problems printing from Visio:

- Make sure you have the latest Visio Service Patch installed
- Try copy/pasting your VSM to PowerPoint or Excel and then print from there
- Convert your VSM to Acrobat PDF and then print the PDF file

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