

## SDL (System Description Language) Diagram Template

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There are two ways to create an SDL diagram. You can either open the SDL Diagram Template or you can run the Flowchart-TQM Diagram Wizard.

### Starting an SDL diagram

Open the SDL Diagram Template to draw an SDL diagram by dropping shapes on the drawing page.

Run the Flowchart-TQM Diagram Wizard to create an SDL diagram from a text (.txt) or Microsoft Excel (.xls) data file. The wizard requires the data file to include specific column headings, so you may find it most efficient to create your data file from one of the data-file templates that become available when you run the wizard.

**Note:** To fill in data in the data file templates, you need to know the name of the Visio stencil with the shapes you want to use and the name of each master you want to use. You also need to supply a Shape ID, which is a name, such as MyShape1, that uniquely identifies a shape.

### To run the Flowchart-TQM Diagram Wizard and open a data file template:

1. Choose Tools > Flowchart-TQM Diagram Wizard. On the first wizard screen, click Next.
2. On the second wizard screen, choose Enter Data In A New Text File or Enter Data In A New Microsoft Excel Workbook, then click Next.
3. On the third wizard screen, choose Use Visio Flowchart Template, then click Next.
4. If you chose to open a new text file, the wizard asks you to type a name for the file. When you click Next, a text file opens that includes instructions for setting up the data file column headings.

If you chose to open a new Microsoft Excel Workbook, the wizard provides you some information about moving between Excel and Visio. When you click Next, a workbook opens with the column headings in place.

5. Enter data in the text file or workbook template, then save the file.
6. Choose Tools > Flowchart-TQM Diagram Wizard. When the wizard prompts you for the data file you want to use, choose the text or Excel file you just created. Follow the wizard screens.

### To see a Shape ID:

- Select the shape, then choose Format > Special.  
In the Special dialog box, the Shape ID appears under Name.

### SDL diagrams and layers

When you create an SDL diagram, Visio places the SDL shapes on a layer called Flowchart. A layer is a named category of shapes. When shapes are assigned to separate layers, you can work with them separately. For example, you can hide or lock all layers except the one you want to work on or you can print shapes based on their layer assignments.

See also:

[About layers](#)

### Connecting SDL shapes

The most efficient way to connect SDL shapes is to use the connector tool on the Standard toolbar.

### To draw an SDL diagram using the connector tool:

Choose the connector tool from the Standard toolbar.

1. Drag and drop a two-dimensional (2-D) shape from the SDL stencil.  
2-D shapes are indicated by a gray background on the stencil. Examples include Divided Process and Message To User.
2. With the first 2-D shape selected, drag and drop a second 2-D shape. Visio connects the shapes using [dynamic glue](#).
3. Drag and drop enough shapes to build the complete flowchart. Each new shape you drop connects to the selected shape.

See also:

[About creating and revising connected drawings](#)

### **Fitting an SDL diagram on a page**

You can draw an SDL diagram first, letting shapes fall outside the drawing page, and then adjust the fit of the diagram and the drawing page.

#### **To fit the drawing page to the SDL diagram:**

1. Choose File > Page Setup.
2. On the Page Size, under Page Size, check Size Page To Fit Drawing, then click OK.

The drawing page resizes to enclose the diagram. Even though the shapes may touch the edges of the drawing page, they still print within the edges of the printed page.

#### **To fit the SDL diagram to the drawing page:**

1. Choose File > Page Setup.
2. On the Drawing Scale tab, under Drawing Scale, choose a smaller drawing scale.

For example, if the unscaled drawing is larger than the drawing page, change the scale so that .75 units on the page equals 1 unit in the real world. If the drawing is still too large, try different scales until the diagram fits on the page.

**Tip:** When you scale an SDL diagram, the text doesn't scale with the shapes. You may need to change font size so that the text fits properly within the flowchart shapes. To change font size, double-click a shape to select its text, then choose the size you want from the font size list on the Text toolbar.

### **SDL shape properties**

By default, Visio associates three property fields—Cost, Duration, and Resources—with every 2-D SDL shape. You can enter data into the fields by right-clicking any shape, then choosing Properties from the shortcut menu.

If you want to associate additional data with your SDL shapes, you can run the Custom Properties Editor to add properties.

#### **To run the Custom Properties Editor:**

- Choose Tools > Macro > Custom Properties Editor.

See also:

[Adding, editing, and deleting custom-property fields](#)

### **Generating reports from properties**

If you've entered data for the properties associated with your SDL shapes, you can run the Property Reporting Wizard to generate inventory or numerical reports based on the data. For example, you could calculate the average cost for a particular process, or create a cost and duration summary for all the steps in the chart.

**To run the Property Reporting Wizard:**

- Choose Tools > Property Report.

See also:

[Creating reports from custom data](#)

**Linking SDL shapes to other drawing pages, other files, or World Wide Web locations**

You can add navigational links to any shape in your diagram, so that users of the diagram can right-click the shape to jump to separate drawing pages, separate files, or documents on an intranet or the Web. For example, you can link a Variable Procedure shape to a Microsoft Word document that describes the procedure options in detail.

**To add links to shapes:**

- Choose Insert > Hyperlink.

See also:

[About using hyperlinks](#)

**Creating a database from an SDL diagram**

If the shapes in your drawing contain custom property data, you can run the Flowchart Database Wizard to create a Microsoft Access 7.0 database from the drawing. You can create a new database or insert new tables into an existing database. To run the Flowchart Database Wizard, you must have Microsoft Access 7.0 or later installed on your computer.

**To run the Flowchart Database Wizard:**

- Choose Tools > Flowchart Database Wizard.

See also:

[Creating databases from shape properties](#)

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