

Visio 2010 – Visio Services & Mash-up API

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Visio 2010 Feature Pillars

Ease of Use

- **Office Fluent UI**
 - Outspace and Ribbon (tabs)
 - Live Preview
 - Mini Toolbars
- **Visio Chrome Enhancements**
 - Shapes Window
 - Quick Shapes
 - Shape Visual Refresh
 - Page Tab Improvements
- **Diagramming Improvements**
 - AutoConnect
 - Page Auto Size
 - Dynamic Grid
 - Copy/Paste
 - Themes
 - DWG Support

Process Management

- **Flowcharting Experience**
 - Insert & Delete Shapes
 - Incremental Layout
 - Connector Routing
- **Structured Diagrams**
 - Containers, Lists, and Callouts
 - Cross-functional flowchart
 - Sub-process
 - Diagram Validation
 - BPMN Shapes
 - Structured Diagrams API
- **SharePoint Integration**
 - Process Diagram Repository
 - Visual Workflow Designer

Visio Services

- **Diagram Publishing**
 - Publish diagram to server
- **Rendering and Navigation**
 - SharePoint Web Part UI
 - Rendering
 - PNG
 - Silverlight XAML
 - Overlay API
- **Data Connectivity & Refresh**
 - Data Sources: SQL, Excel Services, SharePoint Service List, OLEDB/ODBC
 - Data Connectivity API
 - Data Graphics Refresh

Data Visualization with Data Overlay

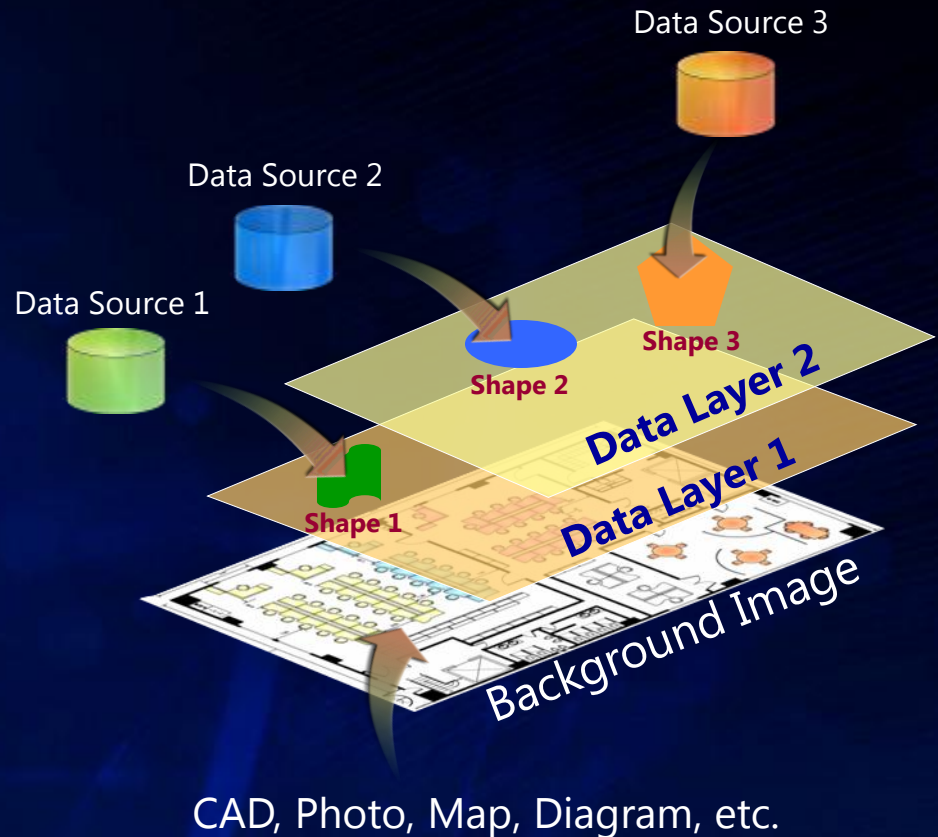
Data Overlay is the technique to visualize corporate information using Data Layer and Data Graphics on top of background image

1 Import background

2 Create data layer

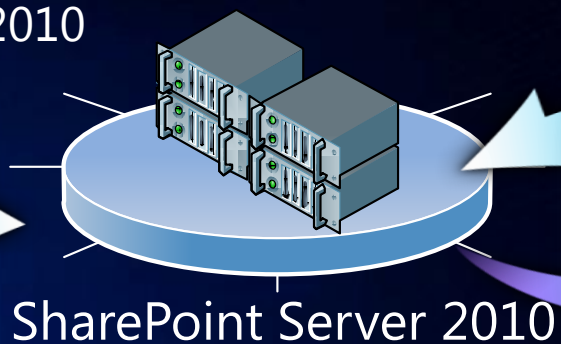
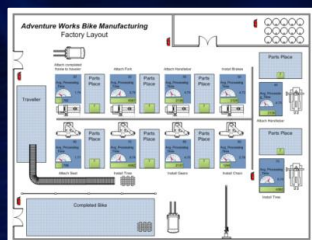
3 Link data to shape

4 Apply Data Graphic

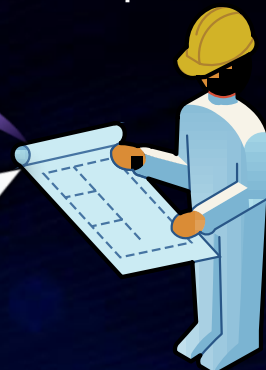


How does Visio Services works?

Generate proprietary "VDW" file to SharePoint Server 2010



Consumer requests updates
The server returns a PNG or XAML representation of a refreshed Data Graphics

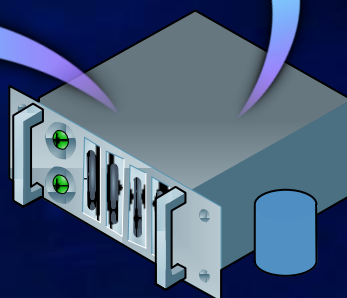


Consumer
Consumers can navigate, refresh & open the diagram in Visio 2010



Creator

Create Data-linked Diagram just as in Visio 2007



Database



Things Visio Services don't

1. Do not generate diagram / Shape



2. Do not move Shape



3. Do not re-pivot Pivot Diagram

If you use Pivot Diagram as static view, Visio Services will update only Data Graphics

Requirements of Visio Services

	To Publish	To View		
Client Apps	Visio Professional 2010 Visio Premium 2010	Support Level	Operating System	Browser
		Level 1 Full Fidelity on all web pages	Windows XP, Vista, Win7 Windows 2003, 2008, 2008 R2	IE7, IE8(32bit) (No IE6)
			Windows XP, Vista, Win7 Windows 2003, 2008, 2008 R2	Firefox 3.x
		Level 2 Almost full fidelity on all pages	Windows XP, Vista, Win7	IE7, IE8 (64bit)
			Mac OS-X Leopard	Safari 4.x Firefox 3.x
			Unix / Linux	Firefox 3.x
		Level 3 No fidelity support	Everything else	
Server Apps	SharePoint Server 2010 (No 2007 & WSS)			
SharePoint CAL	No	Enterprise CAL		
Data Source	Excel Services (No Excel & Access) , SQL Server (No AS/RS) , SharePoint Service List, ODBC/OLEDB, .NET Web Service			

How vulnerable is Visio Services?

Minimum Refresh Cycle

With UI: 1 minute

With API: 1 sec to scan data, but rendering in SharePoint will take 3 to 15 second

Rendering performance is depended on HW Spec and Bandwidth

File size limitation of publishing Visio diagram

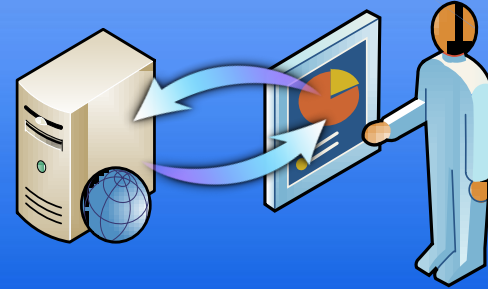
As default: 5MB

SharePoint Administrator is able to change this file size limit

Note : Performance data is subject to change before RTM

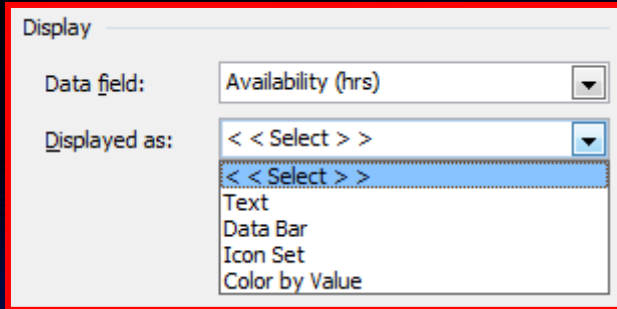
Visio Services

demo

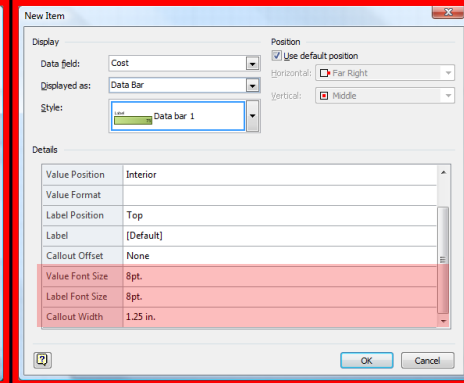
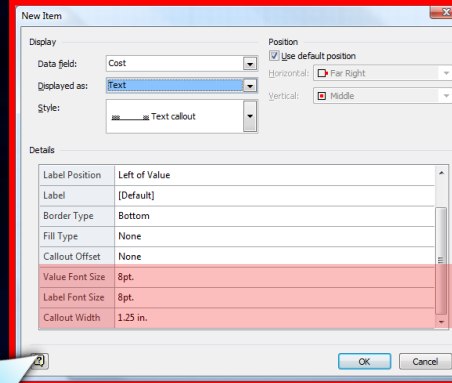


DEMOSERVER
<http://vsdemo02>

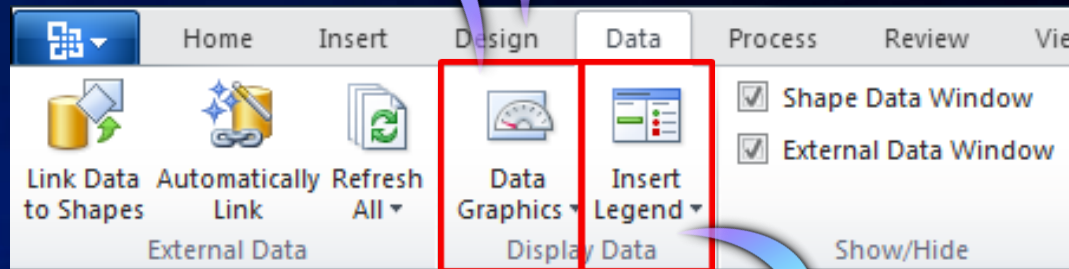
Enhancements of Visio 2010 Data Features



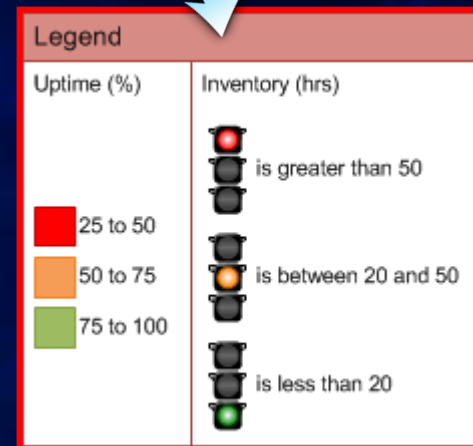
A pull down menu allow switching Data Graphics type in single widow



Label Font Size and Callout Width Setting for "Text" and "Data Bar"



Intuitive graphic icons for External Data Feature



Automatically Generate Data Graphics Legend

Note: If Data Graphics setting is updated, the legend needs to be re-generated manually from the menu

The Microsoft logo is centered on a blue background with abstract, glowing lines and particles. The logo is in a white, bold, italicized sans-serif font with a registered trademark symbol.

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