

Deltek Vision[®]/Deltek GovWin[®] 6.x

**Technical Overview & System Requirements:
Simple Deployment (1-25 Employees)**

May 2009

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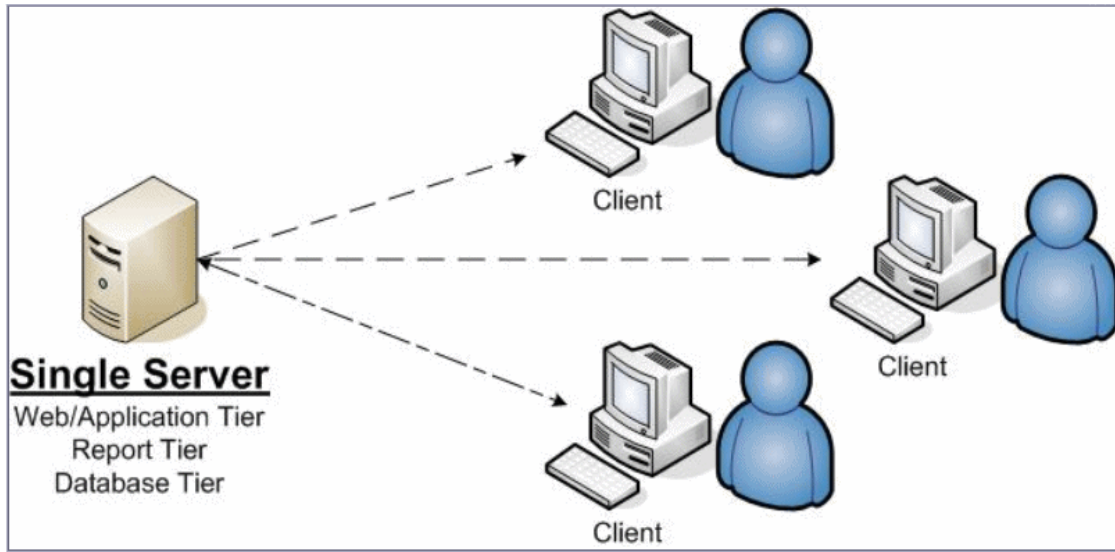
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Simple Deployment Model (1 - 25 Employees)



Introduction

This document provides your firm's IT department with information about the technical deployment of Vision using a Simple Deployment model (three Vision logical tiers, and one physical server).

Deltek has designed several Vision deployment models to ensure the best fit with your firm's environment. Vision's tiers are all logical tiers, which can be collapsed or allocated to as many physical servers as needed by your firm.

It is important to note that the choices of hardware, database, and operating system in these examples represent *guidelines*, are subject to change, and do not replace a needs analysis and site survey with a Deltek Technical Consultant. *Contact a Deltek Technical Systems Engineer for suitability of legacy equipment.*

Consulting

Deltek, Inc. can provide onsite consulting and training services as well as phone support on a contract or time-and-materials basis.

Contact Information

Please contact a Deltek Technical Systems Engineer techse@deltek.com for more information.

Additional Notes



For information on the Basic and Advanced Deployment, please see the following:

Vision/GovWin Technical Overview & System Requirements: Basic Deployment (25 - 150 Employees)

Vision/GovWin Technical Overview & System Requirements: Advanced Deployment (150 or more Employees)



In this document, all references to Vision are synonymous to GovWin.



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Unsupported Configurations

The Vision installation does *not* support installing any Vision Tier on any of the following servers:

- Domain Controller
- Microsoft Exchange Server
- Windows Terminal Server/Citrix Server
- Proxy, Firewall, or ISA Server
- Microsoft SharePoint Portal Server
- Installing any Vision Tier (except Database Tier) on Small Business Server
- x64 with any Deltek Vision/GovWin release prior to 4.0
- 32-bit (x86) version of Microsoft SQL Server 2005 or SQL Server 2005 Express running on Microsoft Windows Server 2003 x64

Using these servers causes significant issues in the performance, reliability, and functionality of the Vision application and the other applications on your network.

If you try to install Vision on any one of these servers, the installation routine will detect the unsupported server and cancel the installation.

Distributed Computing

The architecture of Vision is based on Microsoft .NET, which allows the application to use the distributed computing model. In this model, each Vision tier is responsible for handling a specific set of application processes. This allows each process to pull from its own pool of resources — thereby improving performance and reliability.


The distributed computing model also improves the scalability of Vision, which means you can deploy as many servers as necessary to meet the needs of your clients. In many cases, these changes to the server environment are seamless to end users.

Vision Tier Model and Technologies

Presentation (Client) Tier/Vision Smart Client

Deltek is utilizing Microsoft's ClickOnce technology to deploy our new Smart Client applications. These Windows Forms-based Smart Client applications require that the client workstation has .NET Framework 3.5SP1 installed. If that pre-requisite is missing, ClickOnce displays an Application Run – Security Warning form and stops the application download. Provided the .NET Framework 3.5SP1 is installed, a download of approximately 16 MB is initiated and completed on the end users workstation after that one click from the user. After this one click installation the end user is now ready to work with the Smart Client application.

The ClickOnce technology does not require that end users have local administrative rights on their workstation. It allows Vision to recognize when an update is required on the client machine for our Smart Client applications and performs the download automatically. This eliminates the need for IT employees to perform the upgrade process.

 The Presentation Tier communicates only with the Web/Application Server.

Operating system and browser requirements for the Presentation (Client) Tier are described in the following table.

Presentation (Client) Tier Technologies	
Operating System	<ul style="list-style-type: none"> ▪ Windows XP Professional, or Windows Vista x32-bit or x64-bit
Required Components	<ul style="list-style-type: none"> ▪ Internet Explorer 7.0 (recommended) ▪ Internet Explorer 6.0 or higher ▪ Microsoft.NET Framework v.3.5SP1, the infrastructure of the .NET platform, including the Common Language Runtime and the .NET class library.

Microsoft Office Desktop Integration (MODI)

MODI allows you to integrate Vision information with Microsoft Word and Outlook. This includes sharing client, contact, lead, and activity information, as well as searching the Vision text library for data to include in your Word documents.

In addition, you can automatically generate Vision clients, contacts, and activities, and search your Vision database directly from your desktop. MODI allows you to complete all of these actions without opening Vision from the browser.

Web/Application Tier

The Web/Application Tiers are always installed to the same physical server. In fact, the Vision installation does not allow for these tiers to be installed on separate physical servers.

Operating system, browser, and system requirements for the Web/Application Tier are described in the following table.

Web/Application Tier Technologies	
Operating System	<ul style="list-style-type: none"> ▪ Windows XP Professional/Vista; for testing purposes only ▪ Windows 2003 Server x32-bit ▪ Windows 2008 Server x32-bit
Browser	<ul style="list-style-type: none"> ▪ Internet Explorer 6.0 or higher (WebLink Utility)
System	<ul style="list-style-type: none"> ▪ IIS 6.0/7.0; depends on you OS version ▪ Microsoft.NET Framework v.3.5SP1, the infrastructure of the .NET platform, including the Common Language Runtime and the .NET class library. ▪ SQLXML 3.0; querying, updating and converting XML to Relational data ▪ ADO.NET — Database Communication- installed with .NET Framework 3.1 SP5 ▪ Microsoft XML Core Services 4.0; allows Vision to adhere to XML standards.

Report Tier

The Report Tier contains the SQL Reporting Services software. All Vision reports that are generated, previewed, and printed are done so on this Tier.

Operating system, browser, and system requirements for the Report Tier are described in the following table.

Report Tier Technologies	
Operating System	<ul style="list-style-type: none"> ▪ Windows XP Professional/Vista; for testing purposes only ▪ Windows 2003 Server x32-bit or x64-bit ▪ Windows 2008 Server x32-bit or x64-bit
Browser	<ul style="list-style-type: none"> ▪ Internet Explorer 6.0 or higher (SQL Reporting Services Management Console)
System	<ul style="list-style-type: none"> ▪ Microsoft SQL Server 2005 Sp3, x32-bit or x64-bit, Express/Workgroup/Standard or Enterprise editions, Microsoft SQL Server 2008 Sp1, x32-bit or x64-bit, Express/Workgroup/Standard or Enterprise editions. ▪ SQLXML 3.0; querying, updating and converting XML to rational data ▪ Microsoft.NET Framework v 3.5 SP1; the infrastructure of the .NET platform, including the Common Language Runtime and the .NET class library. ▪ Microsoft XML Core Services 4.0; allows the Vision application to adhere to XML Standards ▪ ADO.NET – Database Communication
*64-bit Support	<ul style="list-style-type: none"> ▪ Two 64-bit platforms currently exist for the Microsoft® Windows® Server 2003 operating system: Windows Server 2003 x64, which supports x32-bit and x64-bit applications natively Intel® Itanium®, which is currently not supported with the Vision application ▪ Deltek does not support running x32-bit bit applications on x64-bit Operating Systems ▪ With the release of Deltek Vision/GovWin 4.0, Deltek officially supports the Vision/GovWin database tier running Microsoft SQL Server 2005 x64-bit (SP3) (Workgroup, Standard and Enterprise Editions) on Microsoft Windows Server 2003 x64-bit (SP2).

Database Tier

The Database Tier is the repository of all your firm's data and business information.

Operating system, browser, and system requirements for the Database Tier are described in the following table.

For more information regarding the x64 architecture, go to the Microsoft Web site:

<http://www.microsoft.com/windowsserver2003/64bit/x64/editions.mspx>.

Please contact the Deltek Technical Sales Engineers at techse@deltek.com with any questions.

Database Tier Technologies	
Operating System	<ul style="list-style-type: none"> ▪ Windows XP Professional; for testing purposes only ▪ Windows 2003 Server x32-bit or x64-bit ▪ Windows 2008 Server x32-bit or x64-bit
Browser	<ul style="list-style-type: none"> ▪ Internet Explorer 6.0 or higher (SQL Reporting Services Management Console)
System	<ul style="list-style-type: none"> ▪ Microsoft SQL Server 2005 Sp3, x32-bit or x64-bit, Express/Workgroup/Standard or Enterprise editions, Microsoft SQL Server 2008 Sp1, x32-bit or x64-bit, Express/Workgroup/Standard or Enterprise editions. ▪ SQLXML 3.0; querying, updating and converting XML to rational data ▪ Microsoft.NET Framework v 3.5 SP1; the infrastructure of the .NET platform, including the Common Language Runtime and the .NET class library. ▪ Microsoft XML Core Services 4.0; allows the Vision application to adhere to XML Standards ▪ ADO.NET – Database Communication
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Deployment Models

The Vision Tiers you must deploy are:

Web/Application

Reporting

Database

Based on those considerations, there are three standard deployment models from which you can choose:

Simple (one physical server)

Basic (two physical servers)

Advanced (three or more physical servers)



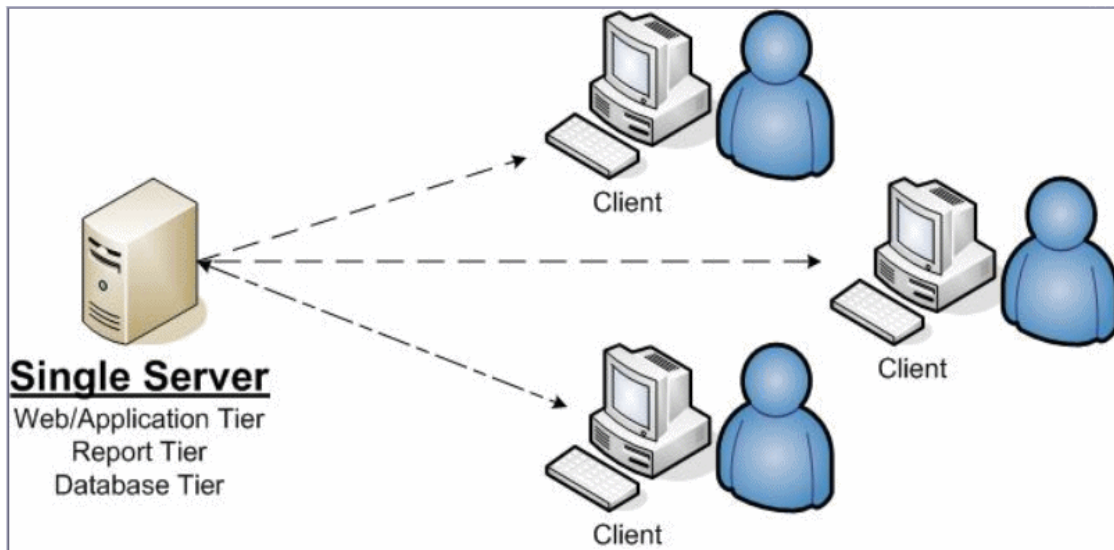
For more information on the Basic and Advanced models, please see the following documents:

Vision/GovWin Technical Overview & System Requirements: Basic Deployment (25 - 150 Employees)

Vision/GovWin Technical Overview & System Requirements: Advanced Deployment (150 or more Employees)

Simple Deployment (one physical server)

All the Vision Tiers (Web/Application, Reporting, and Database) reside on the same physical server. This model is recommended for testing purposes or (1-25) employees who do not need remote access.



Hardware and Software Requirements

The number of people using Vision, the Vision modules they are using, and the size of your database all have an effect on the hardware and software requirements for your servers.

Your hardware and software requirements are also affected by the deployment model you choose.

With the release of SQL Server 2008 Microsoft has made significant performance gains on SQL Reporting Services. Deltek recommends that any client needing to purchase SQL Server should purchase SQL Server 2008.

Simple Deployment (one server)

The following table lists the recommended minimum hardware and software requirements for a Vision Simple Deployment (one physical server).

Tier	Hardware/Software Required	Determining Factors
Database / Web / Application / Reporting Tier	<ul style="list-style-type: none"> ▪ Server Class Machine ▪ 1 x Dual or Quad-core 2.8 GHz or faster CPU ▪ 4 GB Physical Memory ▪ RAID 5 Disk array ▪ Windows Server 2003 or 2008 Standard Edition x32-bit ▪ Microsoft SQL Server 2005 Express/Workgroup/Standard/Enterprise or Microsoft SQL Server 2008 Express/Workgroup/Standard/Enterprise 	

Workstation

The following table lists the recommended minimum hardware and software requirements for the Client Tier (web application only).

Client Tier	Hardware/Software Required	Determining Factors
Minimum	<ul style="list-style-type: none"> ▪ Intel 1.8 GHz or higher ▪ 1 GB RAM ▪ 40 GB Hard Drive ▪ 1024x768 SVGA Video Display ▪ 100 Mb Network Card ▪ Windows XP Professional or Vista ▪ Microsoft Internet Explorer (IE) 6.0 or higher ▪ Microsoft.NET Framework v.3.5 SP1 	Usage

Client Tier	Hardware/Software Required	Determining Factors
Recommended	<ul style="list-style-type: none"> ▪ Intel 2.0 GHz or higher ▪ 2 GB RAM ▪ 40 GB Hard Drive ▪ 100 Mb Network Card ▪ Windows XP Professional, or Windows Vista x32 bit or x64 bit ▪ Microsoft Internet Explorer (IE) 6.0 or higher ▪ Microsoft.NET Framework v.3.5 SP1 ▪ The infrastructure of the .NET platform, including the Common Language Runtime and the .NET 	Usage