SharePoint Server 2010 INSIGHTS

Business intelligence is the delivery of accurate, useful information to the appropriate decision makers within the necessary timeframe to support effective decision making. Microsoft SQL Server 2005 and 2008 & 2008 R2 provides a storage and management foundation for business data, and a set of reporting and analysis tools. Microsoft SharePoint Server 2010 provides controlled access to, and analysis of, business data, and the ability to leverage data to make better business decisions. The business intelligence tools you use depend on the specific problems you are trying to solve. Your daily business activities have associated information and insights that emerge in three main areas of business intelligence: personal, team, and organizational. There will be overlap across these areas. Areas of business intelligence Organizational business intelligence Self-service and personal business intelligence Business intelligence for the community Personal and self-service business intelligence is People don't work just as individuals but in groups and teams Organizational business intelligence describes a set of tools that information available or delivered to people when they to complete projects. Business intelligence for the community help people align their objectives and activities with overall need it and in the desired format. IT may integrate a selfdelivers information that reflects this, providing business company goals, objectives, and metrics. It is business intelligence service business intelligence platform to reduce the intelligence that focuses on the ability to promote that helps synchronize individual efforts by using scorecards, backlog of requests. Typically there is little or no IT collaboration, and rapid sharing of information to drive to a strategy maps, and other tools that connect to corporate data. **Business intelligence in SharePoint Server 2010 Visio & Visio Services Excel and PowerPivot Add-in PerformancePoint Services Excel Services** Report Builder **Reporting Services Platform for business intelligence SQL Server Integration Services SQL Server Reporting Services SQL Server Analysis Services** Business Intelligence Developer Studio (BIDS) is SQL Server's BI the authoring tool in Visual Studio for developing solutions for ETL, Reporting Services and Analysis Services, and data mining.

Getting started with business intelligence in SharePoint Server 2010

The SharePoint Server 2010 application platform enables you to store data that represents your organization's key business processes, organize that data in a useful manner, and present that data as meaningful information. Knowledge workers can act on that information to increase productivity and to provide feedback that improves underlying business processes.

The outputs of each of these business intelligence tools can be published in SharePoint Server. The following business intelligence tools work cohesively. For example, a PerformancePoint KPI can use Excel and Excel Services as data sources.

Excel and PowerPivot Add-in

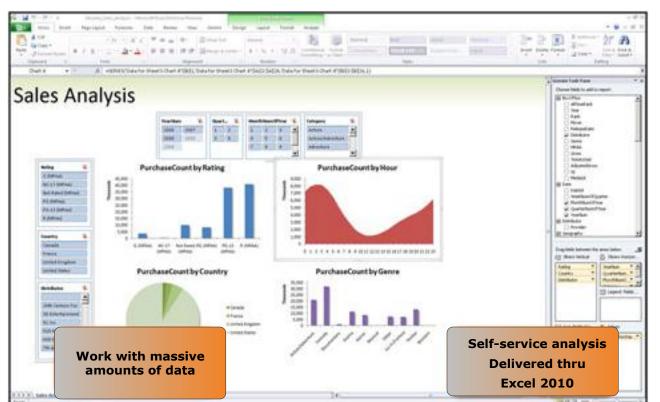
Excel 2010 is the end user's analyst's tool of choice for viewing, manipulating, performing analysis on, generating intelligence from, and creating reports about their organization's data. As the end user tool of Microsoft for Business Intelligence, Excel is where BI begins.

Excel 2010 PowerPivot Add-in is an extension to Excel that adds support for large-scale data. It has an in-memory data store as an option for Analysis Services. Multiple data sources include corporate databases, worksheets, reports, and data feeds. Can publish to SharePoint Server 2010.

Consider using Excel and PowerPivot Add-in when ...Consider using Excel Services when ...

Excel 2010: Use Excel Services to give users browser-based access to a server-calculated version of an Excel spreadsheet. Use Office Excel 2010 and Excel Services to view, refresh, and interact with analytic models connected to data sources, and for analysis, filtering, and presentation of locally stored

PowerPivot Add-in with Excel: You can combine native Excel 2010 functionality with the PowerPivot Add-in in-memory engine to allow users to interactively explore and perform calculations on large data sets. Use Excel and PowerPivot Add-in when you want to quickly manipulate millions of rows of data into a single Excel workbook for ad-hoc reports.



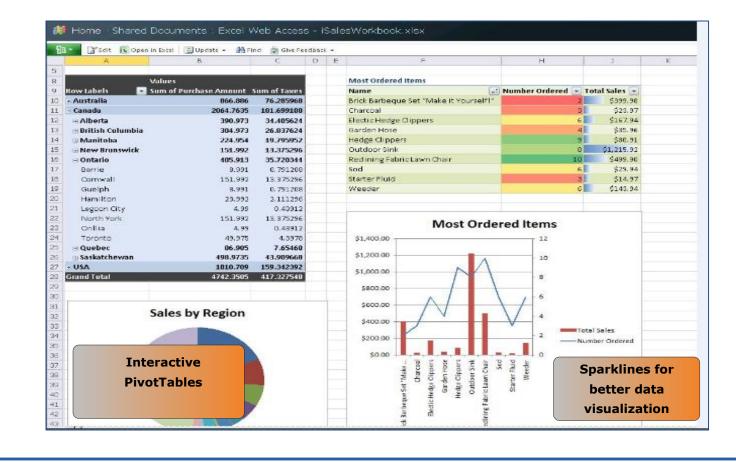
Excel Services

Excel Services is a Microsoft SharePoint Server 2010 shared service that brings the power of Excel to SharePoint Server by providing server-side calculation and browser-based rendering of Excel

Excel Services can be used for:

- Real-time, interactive reporting to include parameterized what-if analysis.
- Distribution of all or part of a workbook for analysis by using SharePoint Server or the Office client applications.
- A platform for building business applications.

Excel Services: Use Excel Services when an end user, or analyst wants or needs to share content with multiple persons across an organization. It provides an easy, intuitive mechanism for taking authored content in Excel 2010 and making it browser accessible. Excel Services is also used when an end user, or analyst has generated a model which can be broadly used (i.e. mortgage calculator) In both use cases, Excel Services enables the author to publish targeted content without making the underlying intellectual property available to consumers.



This diagram shows a farm deployment with four

between the client and the service applications.

business logic for an instance of the services.

Farm

Front-end Web servers

Application server:

Secure Store Service

Excel Services

Visio Services

Database servers:

PerformancePoint Services

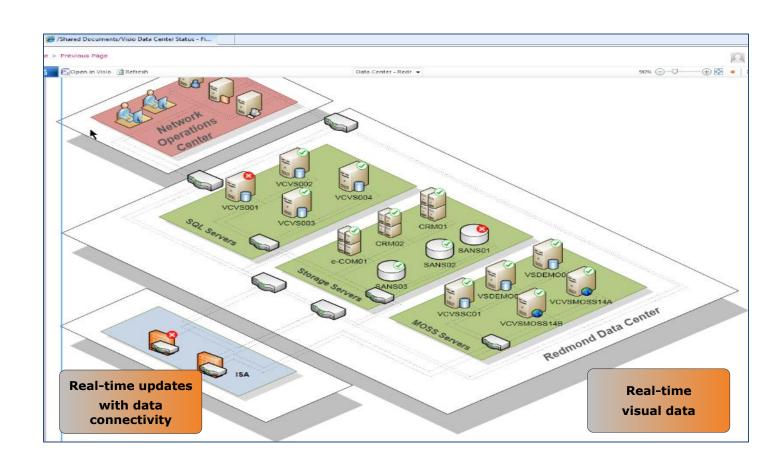
PerformancePoint service

Visio Services

The Visio Graphics Service is a service on the Microsoft SharePoint Server 2010 platform that allow users to share and view Visio diagrams. The service also enables data-connected Microsoft Visio 2010 diagrams to be refreshed and updated from a variety of data sources.

Consider using Visio Services when ...

Use Visio Services to build a visual representation of your business structures that are bound to data. Examples include processes, systems, and resources. An engineer can use the visualization to create data-bound objects to represent a process.



PerformancePoint Services

PerformancePoint Services in SharePoint Server 2010 is a performance management service with tools to monitor and analyze business. It provides easy-to-use tools for building dashboards, scorecards, and key performance indicators (KPIs). PerformancePoint Services can help individuals across an organization make informed business decisions that align with company-wide objectives and strategy.

BUSINESS USER EXPERIENCE

PRODUCTIVITY INFRASTRUCTURE

DATA INFRASTRUCTURE & BI PLATFORM

OLAP (multidimensional)

SQL Server Analysis Services

SharePoint Server

Excel Services

PerformancePoint Services

Visio Services

Also accessible from SharePoint Server:

SQL Server Reporting Services

Report Builder

Data Warehouse (relational)

SQL Server

Integration Services

The end user is a consumer of business intelligence assets that are exposed in

SharePoint Server and through other reporting tools and may also be a solution author.

Administrator and

business analyst

Deploys and supports business

intelligence applications. Many

technical and financial aspects of the business to help connect

times understands both the

to meaningful data sources.

Trusted, scalable, & secure

IT Management & Interoperability

Scalability

Data Quality Data Mining

Master Data Services

Data driven aurhoring

Dashboard Designer

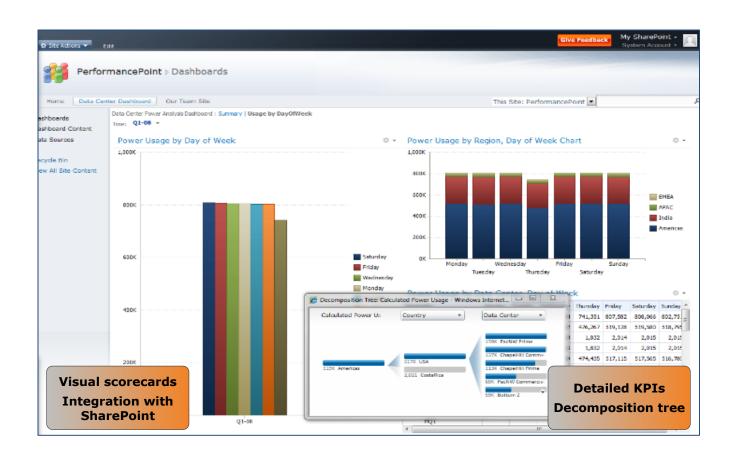
SQL Reports

Excel

- You can bring together data from multiple data sources (including Analysis Services, SQL Server, SharePoint lists and Excel Services) to track and monitor your data
- Use the visualization Decomposition Tree is a new report type that enables you to quickly and visually break down higher-level data values from a multi-dimensional data set to understand the driving forces behind those values.

Consider using PerformancePoint Services when ...

Use PerformancePoint Services for creating dashboards, scorecards, and key performance indicators (KPIs) that help deliver a summarized view of business a performance. The dashboard is a point of entry to drilldown analysis for driving agility and alignment across an organization. PerformancePoint Services gives users integrated analytics for monitoring, analyzing, and reporting.



tools

Excel

Visio

Reporting Services and Report Builder

SQL Server Reporting Services provides a full range of ready-to-use tools and services to help you create, deploy, and manage reports for your organization, as well as programming features that enable you to extend and customize reports. The report authoring tools work with an Office type application and are fully integrated with both SQL Server tools and components as well as the SharePoint Server environment. You can build reports on top of SharePoint lists, publish reports to SharePoint Server 2007 or 2010, incorporate reports inside your portal using a reports Web Part, and fully manage your reports published in SharePoint document libraries.

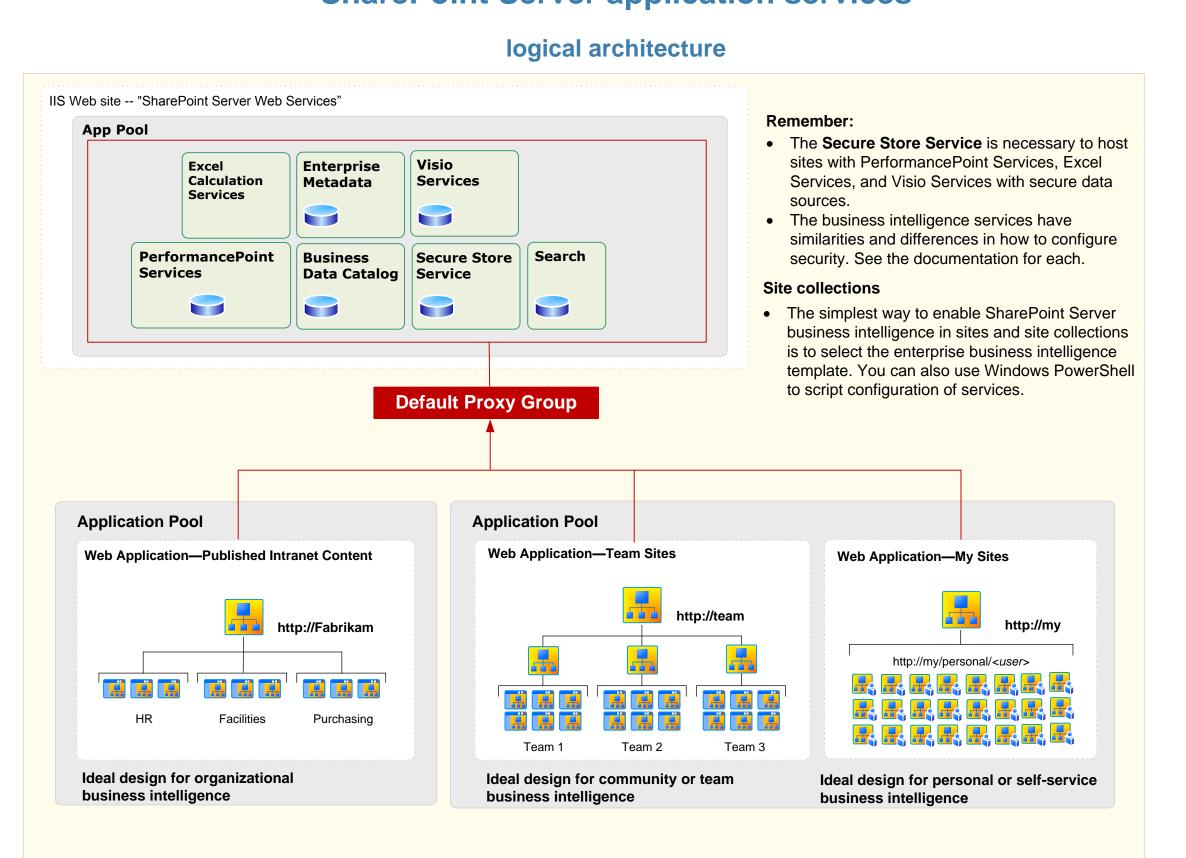
Consider using Reporting Services when ...

When to use SQL Server Reporting Services Use SQL Server Reporting Services to deliver reports that publish at regular intervals and on-demand. It's also suitable where report requirements are well established and customers are not always familiar with the underlying data set.



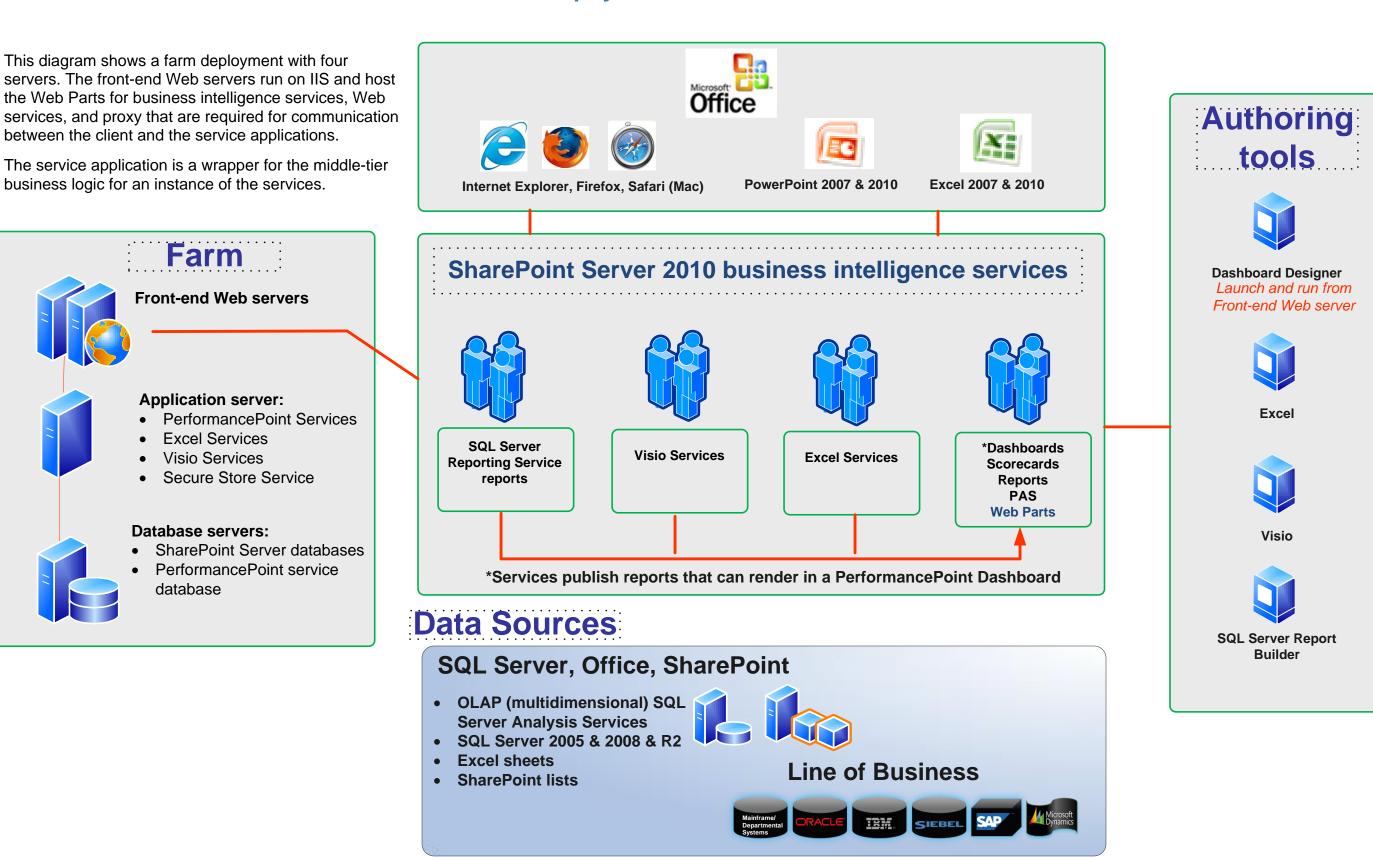
Architecture

SharePoint Server application services



SharePoint Application Services

physical architecture



Data Sources

The following list does not contain the complete list of possible data sources for authoring tools and their respective business intelligence services. Additional data sources and provider types can be located in each product's individual documentation or listed in the SharePoint Server service. For example, you can view a list of provider IDs, provider types, and descriptions for Excel Services data sources by going to Central Administration -> Excel Services -> Trusted Data Providers.

Business Intelligence capability	Supported SQL Server versions	Supported Data Providers	Other
DAFTAFMANCADAINT SAFVICAS	- · · · · · · · · · · · · · · · · · · ·	System.Data.SqlClient For SSAS, uses	SQL Server Reporting Services reports Visio Graphics Service Reports SharePoint Lists Can import SQL Server Analysis Server KPIs Excel Sheet data
Excel Services	-	For SQL Server, extends System.Data.SqlClient For SSAS, uses MSOLAP (.4 by default) OLE DB ODBC	
IFYCAI	SQL Server 2005 (32- & 64-bit) SQL Server 2008 (32- & 64-bit)	OLE DB Jet 4.0	Excel Sheet data
Excel PowerPivot Add-in	SQL Server 2005 (32- & 64-bit) SQL Server 2008 (32- & 64-bit)		
	SQL Server 2005 (32- & 64-bit)	For SQL Server, extends System.Data.SqlClient For SSAS, uses ADOMD.NET	Excel Sheet data

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