# SharePoint 2010 User's Guide

Learning Microsoft's
Business Collaboration Platform

Seth Bates and Tony Smith

#### SharePoint 2010 User's Guide: Learning Microsoft's Business Collaboration Platform

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## **About the Authors**



■ Seth Bates is the delivery manager and a solutions architect for DataLan Corporation, a Microsoft Gold Certified partner specializing in SharePoint solutions located in White Plains, New York. Bates coauthored both the SharePoint 2007 User's Guide: Learning Microsoft's Collaboration and Productivity Platform and the SharePoint 2003 User's Guide. He also has performed the technical editing on many other SharePoint books and published an article titled "SharePoint Web Part Development" in the April 2005 edition of Dr. Dobb's Journal. Bates has more than 12 years' experience engineering business solutions, primarily using Microsoft technologies. With experience in all phases of the software engineering life cycle, he brings a broad mix of analysis, design, and implementation expertise to his work.



■ Tony Smith is a product manager for DataLan Corporation, a Microsoft Gold Certified partner located in White Plains, New York. Tony coauthored both the SharePoint 2007 User's Guide: Learning Microsoft's Collaboration and Productivity Platform and the SharePoint 2003 User's Guide. He has been working with SharePoint technologies since they were originally introduced in 2001 and has been working with SharePoint 2010 since its initial beta release. He also has experience designing and deploying SharePoint solutions in a wide range of organizations across many industries. With a background that includes business analysis, network engineering, and application development, Tony has more than 15 years' experience engineering business solutions and regularly presents to engineers, analysts, and business decision makers. You can find additional information

about Tony and topics discussed in this book at www.sharepointextras.com

## **About the Technical Reviewer**



■ Aaron Bates is a software engineer for Private Client Resources, LLC, located in Wilton, Connecticut. Aaron was also the Technical Reviewer for SharePoint 2007 User's Guide. He has been working with SharePoint since 2003 and has more than eight years of experience working with Microsoft technologies to design, create, and maintain software solutions for practical business needs.

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- Tony Smith

## Introduction

SharePoint 2010 is the next stage in the evolution of the SharePoint technology platform. SharePoint 2010 expands on the previously provided SharePoint platform by extending existing capabilities and introducing new capabilities to make it easier and more cost effective to create business collaboration solutions. We have seen many situations where SharePoint is introduced and individuals struggle to leverage these resources because they are not aware of all the capabilities available or how to leverage them to gain the most value possible. This book was an outcome of this need and can serve as a reference for people working within a SharePoint environment.

The goal of this book is to deliver a resource to all levels of SharePoint users. Beginners will be provided with the information they need to most effectively use the capabilities provided. Intermediate users will be given the information they need to manage their SharePoint resources. Advanced users will be provided the foundation needed to build business solutions using SharePoint's capabilities. We have incorporated our experiences working with a variety of organizations and knowledge of the product into an easily understood format for learning about SharePoint 2010, which we hope will enable you to gain the in-depth knowledge you need to effectively use and manage these tools.

#### Who This Book Is For

The goal of this book is to provide the knowledge necessary for anyone to effectively use Microsoft's SharePoint 2010 platform. Whether you have not yet used SharePoint, have used previous versions, just started using the basic features of SharePoint 2010, or have been using it for a long time, this book provides the information you need to work effectively with the capabilities of SharePoint 2010.

If you want to learn about these capabilities in a detailed yet understandable format, this book is for you. Being a user guide, this book does not require you to have any programming knowledge. It does assume you have a basic understanding of navigating web sites. Some of the more advanced topics require prior working knowledge of Microsoft Office applications such as Word and Excel.

#### How This Book Is Structured

The chapters in this book are organized into two groups. Chapters 1 through 10 offer the fundamental knowledge of SharePoint 2010 that users need to successfully utilize the capabilities provided by the platform. This group of chapters can be used as an end-to-end reference guide, allowing you to easily look up specific SharePoint topics. It also includes step-by-step instructions, figures, tables, and examples. The capabilities described in these chapters are important and act as the building blocks for the solutions described in the second group of chapters.

The second group, Chapters 11 through 13, presents business solutions commonly deployed through SharePoint. Each of these chapters contains an example scenario that will help you understand the potential challenges of the solution, along with the benefits that SharePoint provides. The scenarios also include the necessary steps for creating these solutions within a SharePoint environment.

#### **Chapter 1: Introduction to SharePoint Technologies**

This chapter introduces you to SharePoint Foundation 2010 and SharePoint Server 2010. It contains an explanation of the technology and its uses, benefits, and related terminology.

#### **Chapter 2: Sites**

This chapter contains the details you need to understand the capabilities of sites and workspaces. We will focus on those capabilities making up the core of SharePoint Foundation 2010, which is the foundation of SharePoint 2010 solutions. Security, content, structure, and search capabilities are all covered using detailed examples.

#### **Chapter 3: SharePoint Server 2010**

This chapter focuses on additional core components and capabilities introduced into sites as part of SharePoint Server 2010. It contains the details you need to use these additional capabilities and describes how they are incorporated into the SharePoint environment. Here we will discuss the additional templates introduced with SharePoint 2010, enterprise searching, layout and navigation management, and reporting and auditing.

#### **Chapter 4: List Concepts**

This chapter provides the knowledge needed to work with lists within SharePoint. The use and management of custom lists is described in detail. You will also learn about the advanced integration with Office applications that SharePoint's custom lists provide.

#### **Chapter 5: Lists**

This chapter contains a detailed look at the lists that are provided by SharePoint for you to use as templates when creating your own lists. The use and management of each list is provided in detail, along with any advanced integration with Office applications that they provide.

#### Chapter 6: Libraries

This chapter teaches the use and management of libraries within SharePoint. SharePoint libraries provide many collaborative features and are capable of managing a variety of files from Office documents and forms to images and presentation slides. We will discuss these capabilities and the advanced integration available between these libraries and Office applications.

# Chapter 7: Workflow and Information Management Policies

In this chapter we will discuss workflow processing and information management policies. The steps needed to define and execute business processes using workflows within the SharePoint environment are detailed in this chapter. This chapter also describes how to configure auditing, expiration, and other policies on the documents and information contained in your SharePoint environment.

#### **Chapter: 8 Pages and Web Parts**

Pages and web parts allow for the customization of sites. This chapter uses detailed steps to show you how to customize SharePoint using the various types of pages and the functional components known as web parts.

#### **Chapter 9: Personalization Features**

In this chapter, we discuss the personalization features provided by SharePoint. We will discuss alerts, My Site, tagging, content filtering, and targeting content, as well as how to use these capabilities to provide personalized user experiences.

#### **Chapter 10: Enterprise Office Services**

This chapter contains details about capabilities made available within SharePoint through enterprise integration with Microsoft Office applications. In this chapter we will discuss Excel Services, Form Services, and Visio Services.

#### **Chapter 11: Document Management Solutions**

One of the most common uses for SharePoint is to create document management solutions. This chapter describes the challenges SharePoint document management solutions can address, the benefits you can receive by creating these solutions, and tips to be mindful of when creating these solutions. We will construct a sample document management solution and describe how the solution would be used.

#### **Chapter 12: Project Collaboration Solutions**

Using SharePoint to manage projects is another common use of a SharePoint platform. In this chapter, we will describe how to create project collaboration solutions through SharePoint. We will construct a sample solution and describe the benefits that can be received by creating these solutions.

#### **Chapter 13: Dashboards and Reporting Solutions**

SharePoint allows for the creation of central enterprise reporting and analysis solutions. Reports can be easily shared and distributed and analytics can be combined into comprehensive dashboards. In this chapter, we will discuss how to create SharePoint dashboard and reporting solutions. As part of this discussion we will review the common challenges these SharePoint solutions can overcome and the benefits you can receive by creating these solutions. We will also construct a sample dashboard and describe how it would be used!

#### CHAPTER 1

# Introduction to SharePoint Technologies

Microsoft SharePoint 2010 is the latest iteration of Microsoft's business collaboration platform. SharePoint provides business users with the tools they need to effectively manage and share information, automate business process, collaborate, and interact with others.

SharePoint is the core server component of the Microsoft Office system. Microsoft's Office system is composed of a collection of applications, servers, and services that all work together to improve individual and team productivity, make information sharing more effective, and facilitate business decision making processes.

The Office system includes many of Microsoft's products such as SharePoint Server, SharePoint Foundation, Word, Excel, PowerPoint, Live Communications Server, and SQL Server. These applications and servers are designed to work together to meet the following goals:

- Provide business users with faster, comprehensive access to actionable information. The goal is to not only provide access to more information but to make it possible to locate the most relevant information allowing people to rapidly respond to business needs.
- Enable individuals to find the most relevant people to work with and allow them
  to work together effectively. Teams can easily share information regardless of
  location and across company boundaries.
- Improve individual and team productivity by making it easy to create and manage information and allowing this information to be available as part of related business processes.
- Reduce the costs of providing enterprise-wide business solutions by providing a set of applications and servers that work together and can be combined into business solutions.

Microsoft SharePoint 2010 technologies are core components the Microsoft Office system framework and provide the foundation on which business solutions are built.

In this chapter we will define what SharePoint is, discuss the evolution of the product, and provide an overview of the new capabilities that were added as part of SharePoint 2010.

#### What Is Microsoft SharePoint 2010?

Microsoft SharePoint 2010 is the central information sharing and business collaboration platform for the Microsoft Office System. SharePoint 2010 is made up of two main products: SharePoint Foundation 2010 and SharePoint Server 2010.

SharePoint Foundation 2010 is the next stage of the product previously called Windows SharePoint Services. Microsoft has renamed the product so that its name better reflects the product purpose and aligns with other Microsoft foundational services. SharePoint Foundation provides the fundamental collaboration services on which the SharePoint platform is built, including these:

- A web-centric information management and presentation platform
- Lists and libraries for storing and managing documents and structured information, such as contacts, links, and announcements
- Security services allowing for Active Directory integrated access management and content security, as well as the ability to extend the environment to use alternative security access providers
- Environment and information management structure that allows for easy resource configuration and management
- Integrated Windows Workflow Foundation services providing the core for creating workflow-centric solutions

Microsoft SharePoint Server 2010 extends the capabilities provided by SharePoint Foundation by introducing additional services. These services, which follow, integrate directly into the SharePoint Foundation platform enhancing the existing environment:

- Full-featured document, record, and web content management
- Data integration, reporting, and analysis
- Form and process integration automation and management
- Application integration
- Enterprisewide search
- People integration and social networking
- Personalized content and alerts

These capabilities are used to create solutions that bring together people, information, systems, and business processes. Microsoft summarizes the wide range of capabilities provided by SharePoint 2010 into the following categories:

- Sites: SharePoint is a single platform for providing intranet, extranet, and Internet
  solutions. These sites and the information within them are accessible through
  standard web browsers, Microsoft Office programs, and mobile devices.
- Communities: One of the key uses of SharePoint is to allow people to effectively
  work together. Collaboration tools are available allowing teams to work together
  on efforts. Tools are also provided that enable people to connect and
  communicate with one another.
- *Content*: SharePoint includes a comprehensive set capabilities for document management, record management, and web content management.

- Search: Quickly locating relevant information increases people's overall effectiveness. SharePoint provides enterprise search tools that can be used to search across content, people, and data throughout the enterprise.
- *Insights*: SharePoint allows actionable enterprise data to be incorporated into solutions, making corporate data more broadly available.
- Composites: SharePoint is an enterprise solution platform that includes a wide range of tools and interfaces that can be leveraged to create comprehensive, cost-effective business solutions.

The capabilities of SharePoint allow you to create solutions to support your organization's business needs in a way that is cost effective, can be easily managed, and allows the SharePoint environment to become your central system for managing and accessing all enterprise systems and information.

#### **Uncovering the Evolution of SharePoint**

Microsoft's SharePoint technology was first introduced in 2001 with the release of SharePoint Portal Server 2001. This product provided some basic tools designed to allow users to publish and find documents. It allowed for the creation and management of document taxonomies and represented the first step in providing a way to catalog and search for documents across an enterprise.

Microsoft next released SharePoint Team Services, which extended the document and publishing capabilities of SharePoint Portal Server 2001 by providing information collaboration. It allowed groups of individuals to work together to manage documents and lists of information, such as contact lists, event lists, and link lists.

In 2003, Microsoft completely rearchitected SharePoint and released Windows SharePoint Services 2.0 and SharePoint Portal Server 2003 as part of the introduction of the first Microsoft Office system. The focus of these technologies was to provide a foundation for the collection of applications, servers, and services that work together to improve user and team productivity. These products allowed organizations to introduce a variety of collaborative business solutions that would have previously been very difficult and costly to create and maintain.

In 2007, Microsoft released Windows SharePoint Services 3.0 and Microsoft Office SharePoint Server 2007. With the release of these technologies Microsoft extended its Office vision to include the capabilities needed to support the creation of business solutions. These capabilities include content management; collaboration; business information management; workflow; intranet, extranet, and Internet support; and business integration services. With this release, SharePoint became a business productivity platform allowing for the creation of full-featured business applications and the aggregation of information from other applications, data sources, and systems.

With the release of SharePoint 2010, the SharePoint platform has been enhanced to make it easier to create full-featured business solutions and allow the platform to be leveraged as your organization's main platform for document management, reporting, and web content management. The enhancements made include updates to the previously existing collaboration, workflow, business intelligence, and data integration capabilities. This version also introduces new capabilities, including full-featured records management, new Office integration services, global metadata and taxonomy management, and social networking services. SharePoint 2010 connects people and enables them to work together in the most effective ways, which in turn, allows people to respond to business needs by quickly creating business solutions that can be integrated with enterprise business data, tools, and processes.

#### **Exploring What's New in SharePoint 2010**

SharePoint 2010 boasts many new capabilities and updates to existing SharePoint capabilities. Here are some of the most notable updates to existing capabilities:

- Enhanced wiki capabilities: Wiki functionality can be added to any site. Wiki pages
  can contain web content and web parts managed together and organized in any
  configuration within wiki zones; in previous versions, these elements needed to be
  managed in separate content and web part zones.
- *Updated mobile access interface*: The mobile access interface has been updated so it no longer just lists the libraries and lists available within the site; it now presents all page details in a form factor that is usable on mobile and handheld devices.
- Site and content management: Silverlight management interfaces have been added to make site list and content updating easier. Also, the Office ribbon has been introduced to support site, page, list, and library management.
- Integrated records management: Records management capabilities can now be used anywhere within the environment; documents no longer need to be moved to a records management site. Records can now be declared as records in their original source locations anywhere in SharePoint.
- Search enhancements: The SharePoint Search feature has been updated to include better relevance management, conversational search queries, social searching capabilities, and the ability to integrate FAST Search with SharePoint.
- Social networking: My Site has been updated to allow users to manage content, relationships with others, and professional details. It also allows for professional networking.

New capabilities that have been added as part of SharePoint 2010 include the following:

- Managed metadata: The ability to centrally manage metadata has been added.
  This feature allows you to manage attributes and attribute values that are used
  throughout the environment.
- Ratings: Users of SharePoint content can rate the content, allowing users to easily see how useful materials have been for others.
- Tags and notes: Users can tag content to relate it to their needs and processes. By tagging content, users can see how it relates to internal needs and organize and track relevant information. Notes can also be added to further clarify details about the use of site resources and information.
- Document sets: A group of documents can be defined as a set allowing them to be managed together. Management of document sets includes sending the full set of documents through a single workflow process instance.
- Metadata driven navigation: Navigation hierarchies can be identified within lists and libraries, and these hierarchies can be used to navigate through the available information.
- Visio services: Visio diagrams can be presented in SharePoint as web-based diagrams. Visio services can also be used to present data-driven diagrams to be used for graphical visualization of information.

We will discuss the capabilities updated and the new capabilities added to SharePoint 2010 and describe how they can be used to create business solutions.

#### Understanding the Value of SharePoint 2010

SharePoint 2010, including both SharePoint Server 2010 and SharePoint Foundation 2010, provides an information management and sharing platform, document and record management platform, workflow platform, business process management framework, and development foundation on which information worker solutions can be created. The building blocks needed to create comprehensive business solutions are available and can be easily assembled into scalable enterprise solutions.

In today's work environment, information management and business processes are often very "people centric." Organizations rely on individuals' knowledge of available information and on manual business processes to address many needs. Therefore, organizations to become dependant on specific individuals to complete certain tasks, and allowing others to participate in these areas becomes difficult. In this model, finding information is challenging. Individuals without knowledge of information that is available often require a significant amount of time to find necessary information or will, in some cases, re-create materials already available. Trying to build solutions to simplify and automate business processes and the information management environment can be costly and difficult to create and maintain.

With the introduction of SharePoint 2010, Microsoft continues to expand the Office System by further extending the information management, collaboration, business process automation, and data integration capabilities. SharePoint 2010 also introduces additional capabilities to allow people to work together more effectively and to create solutions needed to rapidly respond to business needs.

#### **Knowing the Building Blocks**

SharePoint Foundation 2010 and SharePoint Server 2010 include many capabilities that can be combined to create enterprise business solutions:

- Sites and workspaces provide a central location to securely consolidate related information of various types and to organize this information to conform to the business needs it supports.
- Libraries and lists allow users to manage documents and other types of information.
- Workflows allow for managed information to be incorporated into business processes.
- Records management capabilities allow you to manage regulated content through the full life cycle of the documents.
- Alerts give users the ability to be notified when information has been added or changed.
- Web parts allow existing information to be organized and presented appropriately
  and provide additional business logic and applications that can be incorporated
  into solutions.
- Navigation and search capabilities provide the resources necessary to find relevant information when it is needed.

- Personalization capabilities allow users to create and manage their own information and share this information with others, as well as communicate with others in the most effective ways to support business needs.
- *Data integration capabilities* allow users to incorporate corporate data into information sharing and business processes.

In this book, we will discuss these tools in depth; we'll describe how they are used and combined into business solutions. In the first part of this book, Chapters 2 through 10, we will discuss the components that make up a SharePoint 2010 environment and provide you with the information necessary to effectively work with these components. In the second part of this book, Chapters 11 through 13 we will discuss some of the common solutions created within the SharePoint environment. The solutions we will focus our discussions around include the following:

- Document management: Often, the goal of a group of information workers is to create and manage documents. Whether these documents are business plans, budgets, sales presentations, or some other type of business materials, managing the creation and publishing of these items is critical to the success of the business processes they support. Individuals working on materials are often geographically disbursed, yet each needs the same level of access to the materials being created. This creation process also often includes an approval process before the items are considered final, and the final materials often need to be properly categorized and placed in a location where they can be easily referenced in the future.
- Project management: When teams are brought together to work on a project, the
  management of the project significantly impacts its success. All aspects of the
  project, including the process, communications, deliverables, timelines, and
  tasks, need to be properly managed to ensure success. All interested parties,
  including team members, stakeholders, and managers, need visibility into the
  progress of the project and all associated resources.
- Business intelligence and reporting: Managers and other individuals within the
  organization need on-demand access to corporate information to make decisions,
  understand the health of the organization, and determine areas of business
  requiring attention. Dashboards allow for business information in documents and
  data systems to be brought together and summarized allowing for quick review
  and easy understanding.

#### CHAPTER 2

## **Sites**

SharePoint Foundation 2010 provides the core document management, list management, workflow, collaboration, and application platform services for a SharePoint environment. SharePoint sites are the foundation on which business solutions based on the Office system store and manage information. Sites provide locations where groups of people can work together and share information. They can also be used to collect team and enterprise knowledge and enable individuals to effectively work with this knowledge. They are also the entry point into business solutions and workflow processes.

As an application development platform, SharePoint Foundation provides many of the building blocks needed to construct business solutions. As part of the Office system, SharePoint Foundation is also tightly integrated with the other Office system products, enabling SharePoint solutions to be easily extended to include a wide range of capabilities.

Several different types of components are available within SharePoint Foundation to store and manage information, facilitate collaboration, and provide workflow, reporting, and other application-centric capabilities. These components include the following:

- Lists: SharePoint Foundation includes a variety of standard lists and the ability
  to create custom lists. Lists are available to facilitate communication and track
  information. Several of the available lists have extended capabilities that help
  support their primary purposes. For example, contact lists integrate with
  Microsoft Outlook to allow them to be used in the same way as contact lists
  created within Outlook. Lists can also be tailored to meet specific information
  management needs. We will discuss lists in detail in Chapters 4 and 5.
- Libraries: Libraries are available in SharePoint Foundation to manage documents, InfoPath forms, wiki pages, and pictures. The available library types are extended by SharePoint Server 2010 to also include Translation Management, Asset, Data Connection, Report, and Slide libraries. These additional libraries are used to incorporate additional business solution capabilities. We will discuss libraries in more detail in Chapter 6.
- Workflow: General workflow capabilities are available within SharePoint Foundation to allow the state of content to be managed through a process. These capabilities are greatly extended in SharePoint Server to allow information to be easily incorporated into business processes. We will discuss workflow in more detail in Chapter 7.
- Web parts: A web part is an application component that can be displayed and managed through pages in sites. Web parts can also be introduced that provide application functionality within SharePoint. We will discuss web parts in more detail in Chapter 8.

In this chapter, we will familiarize you with the general layout and structure of sites. We will describe how to navigate through sites and locate information within them, as well as how to create, manage, and maintain sites, including aspects such as site security and navigation options.

#### **Understanding Sites**

Sites provide the information management capabilities, the workflow engine, the collaboration services, and the application platform that make up the foundation of a SharePoint environment. Sites include a variety of components and services that make up the core elements of business solutions. Five different categories of sites are available within SharePoint Foundation for managing and hosting information:

- Team sites are designed to facilitate team collaboration. These sites provide the capabilities necessary to allow for information management, sharing, and team collaboration.
- Document workspaces are used to facilitate the creation and update of documents. These sites include capabilities needed to allow multiple people to collaborate in the development and management of documents.
- Group work sites provide an environment in which a team can be managed through a collaboration effort. These sites include resources necessary to track team member whereabouts, schedule and manage group events, manage team communications, and manage the materials needed by the team.
- Meeting workspaces facilitate the management of meetings. These sites include
  the capabilities necessary to help plan meetings, share information among
  meeting attendees, organize materials presented during meetings, and track
  post-meeting action items.
- *Blog sites* are used to post information for comment and discussion. Blog sites allow for the capture and management of discussions around specific topics and the capture of materials related to the topic being discussed.

Additional categories of sites are made available through the introduction of SharePoint Server 2010. We will discuss these additional site types and their capabilities in Chapter 3.

SharePoint includes several site templates for use when creating any of the types of sites listed previously. A template is a starting point or default set of capabilities organized to meet a specific need. You create a site based on a template to automatically provide a starting set of capabilities for the site. You can then, if necessary, customize the created site to better meet specific needs. The default set of site templates available through SharePoint Foundation for creating team sites, document workspaces, group work sites, meeting workspaces, and blog sites are designed to provide the most common set of capabilities needed when creating sites for the associated purpose.

As we mentioned previously, several types of components are available in SharePoint Foundation that provide the core capabilities of SharePoint sites. These components act as the building blocks for most SharePoint solutions. Table 2-1 lists the components available in each of the SharePoint Foundation site categories we discussed in this section.

Table 2-1. Site Component Options

	Team Sites	Document Workspaces	Group Work Sites	Meeting Workspaces	Blog Sites
Libraries					
Document libraries	<b>✓</b>	~	<b>✓</b>	•	~
Form libraries	<b>✓</b>	<b>✓</b>	~	•	•
Picture libraries	<b>✓</b>	<b>✓</b>	~	•	•
Wiki page libraries	~	~	•	<b>✓</b>	•
Lists					
Agenda				~	
Announcements	<b>✓</b>	<b>✓</b>	•	<b>✓</b>	•
Calendar	<b>✓</b>	<b>✓</b>	<b>✓</b>	•	~
Circulations			~		
Contacts	~	~	•	<b>✓</b>	•
Custom list	~	~	•	<b>✓</b>	•
Decisions				<b>✓</b>	
Discussion board	~	~	•	<b>✓</b>	•
External list	~	~	•	<b>✓</b>	•
Issue tracking	•	~	<b>✓</b>	<b>✓</b>	~
Links	•	~	<b>✓</b>	<b>✓</b>	~
Microsoft IME Dictionary list			•		
Objectives				<b>✓</b>	
Project tasks	•	<b>✓</b>	•	<b>✓</b>	~
Survey	•	~	•	<b>✓</b>	•
Tasks	•	<b>✓</b>	•	<b>✓</b>	~
Text box				<b>✓</b>	
Things to bring				<b>✓</b>	