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With trusted authors, rigorous technical reviews, authoritative coverage, and independent viewpoints, the Microsoft Community can rely on Addison-Wesley to deliver the highest quality technical information.
To my close friends and family, who supported me tremendously during the writing of this book.

—Scott

To my youngest son, Corey, and my husband, Bruce, who had many dinners and many weekends to fend for themselves while I worked on writing this book. And to my older children, Brian and Jamie, who reminded Corey that I can't really cook anyway.

—Susan
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FOREWORD

Remembering back to the late nineties, I can still recall when we decided to start building a product code-named Tahoe. For those of you who don’t keep up on our code names here at Microsoft, Tahoe was the code name for SharePoint Portal Server 2001. At the time, I was in the Exchange Server group, which supplied the underlying storage technology to the Tahoe team. Many folks, including myself, were nervous about how customers and partners would accept the new technology, especially given that it provided portal, enterprise search, and document management functionality, of which two of the three were completely new categories offered in Microsoft software.

Fast forward to 2010, and we’re just about to release the latest version of SharePoint: SharePoint Server 2010. Three years of development went into this release. We’ve enhanced all the categories in the product, acquired and integrated FAST search technologies, and introduced the cloud version of SharePoint—SharePoint Online.

The product has sold over 100 million licenses and broke $1 billion in the past nine years, making it one of the fastest-growing server products in Microsoft’s history; tens of thousands of companies depend on SharePoint technologies every day to achieve business goals. Much of the success of SharePoint has to be attributed to the early adopters who saw the vision we were painting in the 2001 release and volunteered to help shape and mold that vision and the product over time.

One of those early adopters is Scott Jamison. I first met Scott 12 years ago when he was doing consulting work and I was on the Exchange Server team. Scott was a pro at developing Microsoft Office applications that connected to the new set of server technologies Microsoft was introducing. He believed in the collaboration vision in which Microsoft was investing, and he saw the potential offered by that vision to help his customers increase their business productivity. In fact, Scott worked with the original WSS (which back then was the Web Storage System), which was the underlying platform technology for SharePoint Portal Server 2001.
Any reader of this book will benefit from the history, teachings, and best practices that Scott has internalized over his many years working with Microsoft technologies. Scott has also tapped the experienced minds of Mauro Cardarelli, Susan Hanley, Chris Bortlik, and Donal Conlon, who are Microsoft and industry experts and work with customers every day to solve business issues through software. This book will become a mainstay in your SharePoint library. You will find yourself reaching for it whenever you run into a difficult situation or need extra guidance on how to use the new SharePoint product set. As I was reading this book, I was happy to see the breadth of coverage of the new functionality in SharePoint with no sacrifice of depth and expertise.

When you are done reading this book, you will have a better understanding of SharePoint, SharePoint Online, and how both can help you achieve new levels of personal and business productivity. I guarantee that you will have earmarked many pages where you learned new skills or ideas that sparked your interest for follow-up. Enjoy the book, and enjoy the product. Both are labors of love.

—Tom Rizzo

Senior Director, SharePoint Product Management

Redmond, Washington

March 2010

These are terms that are thrown around when talking about Microsoft SharePoint Server 2010. But what do they really mean?

Most books are designed to address the “how” behind SharePoint, from either an administrative perspective or a programming perspective. This book complements the typical SharePoint book with some of the “what” and “why” of SharePoint, provides insight into targeting needs with collaboration technologies, and helps you understand how those needs might be addressed using SharePoint.

What Is This Book About?

The Information Worker is central to Microsoft’s strategy to bring productive computing to the enterprise and beyond. Navigating the various client and server products can be confusing and daunting. This book will help you navigate these waters, providing direction and understanding. Specifically, this is a book about Microsoft’s SharePoint platform, with a particular focus on four commonly requested topics: a business-focused overview, defining proper strategy, governance and end-user rollout, and a business-focused discussion on how to apply SharePoint’s key features. This book was written because collaboration, knowledge and content management, and Web accessibility are three of the most sought-after features in a corporate software solution. The key product that is the basis for most Microsoft-based solutions in this area is SharePoint Server 2010. Because of this functionality, SharePoint is perhaps one of the most important server products that runs on Windows Server. If you want to deploy SharePoint in your enterprise or upgrade from previous versions, or if you need a concise introduction to collaboration solutions with SharePoint, you’re starting in the right place. This book provides a great
user-level guide to Microsoft’s latest version of SharePoint, along with usage strategies and some insight into the technologies involved. This book is intended to be a tutorial as well as a handy reference.

What You Will Learn from This Book

To implement a collaborative system effectively, you’ll likely need to consider a number of key questions:

■ Do I need a portal or collaboration strategy? If so, how do I create one?
■ What should my governance plan look like?
■ How do users perform the top activities that they’ll need to do?
■ What do I need to consider when I upgrade from previous versions of SharePoint?
■ Where are documents stored currently? Where should documents live?
■ How do users collaborate today?
■ What kind of hardware do I need? How do I deploy the product properly?
■ How does the Web fit into my collaboration needs? What about Office and smart client applications? How about SharePoint Workspace, InfoPath, and Microsoft Access?
■ Will I share information outside of my organization? Should I?

Who Should Read This Book

If you’re a developer, you probably already own a SharePoint programming book or SharePoint API guide (or are looking for one). This is not a book about SharePoint programming; however, developers will find this book useful when building solutions (in conjunction with an API guide) because there are business considerations that are critically important to every SharePoint-based solution.

If you’re a project manager, consultant, or business analyst, you’ll find that this book helps with all of the intangibles of a SharePoint rollout. For example, “What roles should exist to support SharePoint?” or “What should my governance/offline/search/business data strategy be for
SharePoint? This book also introduces you to some key technical concepts and provides simple walkthroughs of the key features that many businesses need to leverage.

**How This Book Is Organized**

This book is organized into three key parts:

- **Part I, “Planning,”** helps you determine what kinds of business needs are addressed by SharePoint and how you should think about SharePoint-based solutions within your organization. It’s also a great introduction to the SharePoint feature set and architecture.
- **Part II, “Optimizing,”** helps you implement SharePoint to its fullest potential.
- **Part III, “Migrating,”** helps you determine your plan for upgrading from previous versions of SharePoint.

Appendix A provides a list of the top SharePoint user tasks.

**Key Points**

At each chapter’s conclusion is a section called “Key Points,” which summarizes the key facts, best practices, and other topics that were covered in the chapter.

**Thank You**

Thank you for reading this book. Our goal was to write the most concise yet useful business-centric guide to Microsoft SharePoint Server 2010. Enjoy!
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ACKNOWLEDGMENTS

First, I’d like to thank Addison-Wesley for giving me another opportunity to write a book, with special thanks to Joan Murray, Olivia Basegio, Julie Nahil, Carolyn Albee, and the rest of the Pearson team for shaping the book into something great.

This book could not have come to fruition without the expertise of Susan Hanley. Her experience and perspective are invaluable to projects like this; every project team should be lucky enough to have her. She provided useful insight, fantastic writing, and real-world expertise to make this a high-quality book.

Thanks to Mauro Cardarelli, who once again lent his deep knowledge of SharePoint to another edition of the book.

I’d also like to thank our team of early reviewers, including Andy Kawa, Arpan Shah, Shelley Norton, Ken Heft, and Ryan Sockalosky who all provided insightful feedback and corrections. I’d like to thank Tom Rizzo for answering numerous questions, lending his team when needed, and writing the Foreword for the book (again!).

I’d also like to acknowledge Chris Bortlik, Donal Conlon, and Nicholas Bisciotti who were instrumental in contributing useful insight and writing to the book.

Special thanks to Joel Oleson for letting us again use his blog posting on file shares versus SharePoint for file storage.

Finally, I’d like to extend a deep and sincere thanks to my family, friends, and customers, and the fantastic team at Jornata who all supported me while writing the book.

—Scott Jamison
Boston, MA
June 2010
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Scott Jamison is a world-renowned expert on knowledge worker technologies and collaborative solutions, and is an experienced leader with almost 20 years directing managers and technology professionals to deliver a wide range of business solutions for customers. Scott is a strong strategic thinker, technologist, and operational manager. Scott is currently Managing Partner and CEO of Jornata (www.jornata.com), a SharePoint and Microsoft Online Services consulting and training firm.

Prior to joining Jornata, Scott was Director of Enterprise Architecture at Microsoft and has held numerous leadership positions, including a senior management position leading a Microsoft-focused consulting team at Dell. Scott has worked with Microsoft teams on local, regional, and international levels for years, often participating as an advisor to the Microsoft product teams. Scott is a recognized thought leader and published author with several books, dozens of magazine articles, and regular speaking engagements at events around the globe.

Scott received his MS in computer science from Boston University, with post-graduate work at Bentley’s McCallum Graduate School of Business. Scott is a SharePoint Certified Master.

Susan Hanley, president of Susan Hanley LLC, is an expert in the design, development, and implementation of successful portal solutions, with a focus on information architecture, user adoption, governance, and business value metrics. She is an internationally recognized expert in knowledge management and writes a blog on SharePoint and Collaboration for Network World Magazine that can be found at http://www.networkworld.com/community/sharepoint. Prior to establishing her own consulting practice, Sue spent 18 years as a consultant at American Management Systems where she led AMS’s knowledge management program. During this time, she was recognized by Consultants News as one of the key “knowledge leaders” at major consulting firms. Sue left AMS to lead the Portals, Collaboration, and Content Management consulting practice for Plural, which was acquired by Dell in 2003. In this role, she was
responsible for a team that developed hundreds of solutions based on the Microsoft SharePoint platform and participated as a member of Microsoft’s Partner Advisory Council for Portals and Collaboration. In 2005, she established Susan Hanley LLC (www.susanhanley.com), a consulting practice dedicated to helping clients achieve high-impact business outcomes with portals and collaboration solutions. Her clients include some of the largest global deployments of SharePoint.

Sue has an MBA from the Smith School of Business at the University of Maryland at College Park and a BA in psychology from Johns Hopkins University.

Mauro Cardarelli is a SharePoint evangelist and has been active in the SharePoint community since its inception in 2001. He has 20 years of experience designing and building technology solutions for customers representing a wide range of industry verticals. His deep knowledge of the Microsoft platform and recognized expertise in the areas of knowledge management and business intelligence make him a popular technology expert.
Chris Bortlik, a SharePoint technology specialist at Microsoft, works with Enterprise customers and partners in the Northeast in a presales technical role. Chris speaks frequently at Microsoft events, including the SharePoint Conference. He also publishes a blog on TechNet at http://blogs.technet.com/cbortlik. Prior to joining Microsoft in 2008, Chris was a Microsoft customer for 14 years, working in technical IT architect, development, and management roles—primarily leading .NET- and SharePoint-related projects. Chris lives in Woburn, Massachusetts, with his wife Marisa and their two daughters, Kayla and Jessica.

Donal Conlon, senior consultant at Jornata, is a technology expert with 15 years in the IT industry, working primarily on Microsoft and IBM technologies. The majority of his career has been spent providing collaboration solutions on many platforms with a focus on Microsoft SharePoint. Donal has held leadership positions at several companies in his career and currently works as a senior consultant at Jornata, delivering solutions on SharePoint 2007 and 2010. Donal holds an engineering degree from University of Ireland, Galway.
The governance plan describes how your SharePoint environment will be managed. It describes the roles, responsibilities, and rules applied to both the back end (hardware, farm, application, database configuration, and maintenance) and the front end (information architecture, taxonomy, and user experience). Effective governance planning is critical for the ongoing success of your SharePoint solution. In the previous edition of this book, we embedded the discussion of governance in the chapter on strategy. In this edition, we give governance a well-deserved chapter of its own but focus primarily on front-end governance because this is the topic that is, quite frankly, hardest to get right. A good governance plan is “necessary but not sufficient” to ensure success, so be advised: A governance plan alone will not guarantee the success of your solution. You still have to ensure that the governance plan is applied. However, not having a governance plan or having a plan that is either impractical or unrealistic is a clear recipe for disaster. This chapter contains the following key sections:

- Why Is Governance Planning So Important?
- How Do I Create a Governance Plan?
- What Is in the Governance Plan?

### Why Is Governance Planning So Important?

A portal or collaboration solution is only as good as the value of its underlying content. A strong governance plan is essential to ensure that a solution delivers worthwhile content to its users in an effective way. Moreover, governance planning is especially important for SharePoint solutions because SharePoint is designed to empower end users who are typically not Information Technology (IT) or content management experts and may not be aware of best practices that will not only improve usability but also save them a lot of time and energy when creating and deploying new sites.
A governance plan establishes the processes and roles required to

- Avoid solution, team site, and content “sprawl” (that is, unmanaged sites and content that is not periodically reviewed for accuracy and relevance) by defining a content and site review process.
- Ensure that content quality is maintained for the life of the solution by implementing content quality management policies.
- Provide a consistently high-quality user experience by defining guidelines for site and content designers.
- Establish clear decision-making authority and escalation procedures so policy violations are dealt with and conflicts are resolved on a timely basis.
- Ensure that the solution strategy is aligned with business objectives so that it continuously delivers business value.
- Ensure that content is retained in compliance with record retention guidelines.

Adoption of a new SharePoint solution often involves a dramatic change in user behavior—specifically, greater integration of technology into day-to-day work and increased collaboration. In more traditional IT solution deployments, the solution business logic changes relatively infrequently. In a SharePoint solution, both the back-end database and business logic change frequently and often significantly. Moreover, the business, market, and technology are guaranteed to change during the lifetime of the solution. This implies that business stakeholders must be continuously engaged given that SharePoint’s ability to meet user needs is critically dependent on areas such as data quality, content relevance and currency, and frequent updates, all of which are business user responsibilities.

What new aspects of governance do you need to consider for SharePoint 2010?

- Governance planning is even more important in SharePoint 2010 because the increased emphasis and availability of social computing features means there are more types of content to govern.
- SharePoint 2010 offers users a far more participatory role in the solution information architecture through the use of “social data” such as tags, bookmarks, and ratings. Users need to understand and internalize the value proposition for leveraging these features. Solution designers will likely need to provide both guidance and encouragement for their use.
Refer to Chapter 7, “Getting Social: Leveraging Community Features,” for additional governance guidance regarding the use of SharePoint 2010’s social computing features.

- SharePoint 2010 introduces new capabilities for sharing metadata across multiple Site Collections and even server farms, which require planning and control to leverage. An additional new role is required to manage and maintain the dictionary of shared metadata.
- SharePoint 2010 includes new and more user-friendly records management capabilities, including the ability to declare a record “in place.” (Refer to Chapter 6, “Making Enterprise Content Management Work: Documents and Records,” for a description of the new records management capabilities in SharePoint 2010.) While many organizations had records management plans and policies for their MOSS 2007 implementations, enforcing and acting on these plans was not consistent. The new records management capabilities introduce an opportunity to create and enforce your records management plan.
- SharePoint 2010 offers many more opportunities for users to customize their sites with easy-to-apply themes, SharePoint Designer, and the opportunity to create “sandbox solutions.” Your governance plan now needs to include decisions regarding how, where, and when to allow configuration using these expanded capabilities.

You should prepare a governance plan prior to the launch of your solution, but do not think of it as being “done” at any one point in time. Your governance plan is a living, breathing document—make time in your project plan to revisit the plan as you learn more about how users are using the solution and capture feedback from their experiences. As your SharePoint environment evolves, revisit your governance plan to adapt to changing needs. You may find that you need greater oversight to ensure conformance. You may also find that you need less oversight to encourage more creative application of core features.

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1. Note that throughout this chapter we use the word “solution” to refer to the business problem you are using SharePoint to solve. The solution includes the hardware and software platform, of course, but it also includes the people and business processes that are critical to a successful outcome. The solution itself might be an enterprise portal, a departmental collaboration site, a partner extranet, or any one of the many business activities you can enable with SharePoint.
Communicating the substance of the governance plan is a core component of launch planning and the ongoing management of your SharePoint environment. It is especially important to ensure that page and site owners understand and commit to the content management responsibilities included in the roles and responsibilities section of your governance plan. Integrate relevant elements of your governance plan into the training and ongoing support you provide for site and content owners.

**How Do I Create a Governance Plan?**

If you are documenting your governance plan for the first time, you will probably find it most effective to put together a small team to help define the key “framing” decisions for governance and then divide up the work to document the details among the team members. The team should clearly include representatives from IT who are responsible for overall IT system use policies, but you will also want to include representatives from the team responsible for system maintenance within IT and outside of IT, people who can represent the interests of those responsible for training, human resources, corporate communications, and if this role exists, people responsible for knowledge management in the organization.

Use the vision statement your SharePoint project sponsors and stakeholders established as a foundation for your governance plan. Identify the basic governance principles at a high level before beginning to draft the actual governance plan. Meet with team members who have the appropriate expertise to draft sections addressing how the various aspects of your environment will be managed. Review each major component of your plan with sponsors, stakeholders and core team members to ensure you are in agreement about the major components of the plan: vision, guiding principles, roles and responsibilities, and key policy decisions.

**What Is in the Governance Plan?**

An effective governance plan provides a framework for design standards, information architecture, service-level agreements, infrastructure maintenance, and your overall measurement plan. It is intended to summarize and tie together, not replace, the documents that describe these activities.
in detail. Referencing this related content rather than embedding it in the governance plan will keep the plan from becoming unnecessarily bloated and unmanageable.

In addition, the governance plan should reference all of your existing IT policies for topics such as the appropriate use of technology resources, confidentiality of content, and records retention. As you begin to deploy more and more “Web 2.0” functionality into your environment, new IT policies will emerge that will impact SharePoint governance. Again, your plan doesn’t need to include these emerging policies, but should reference them where appropriate.

The governance plan is a business document, its primary audience being the business (content) owners of your SharePoint sites and the users who produce and consume the content on those sites. Because all users can effectively produce content in SharePoint via social tags and ratings (if you allow these in your solution), everyone in the organization needs to be familiar with the governance plan.

The formal governance plan document includes several critical elements, each of which is discussed in more detail in the remainder of this chapter:

- Vision statement
- Roles and responsibilities
- Guiding principles
- Policies and standards

In addition to these elements, your plan will likely also include a section that references procedures for common tasks such as requesting a new site, requesting a new shared Content Type or attribute, requesting a new site template, and so on. Publish these procedures so site owners can easily find and follow the processes you define. These tasks typically vary from one organization to the next, so we’re not going to address them explicitly in this chapter other than to remind you that you need to provide guidance in this area.

As you think about creating your governance plan, consider how users will consume and internalize the content in your plan. There is a great quote from Blaise Pascal that is often misattributed to Mark Twain (and others). In the original French, the quote reads “Je n’ai fait celle-ci plus longue parce que je n’ai pas eu le loisir de la faire plus courte.” Loosely translated: “If I had more time, I would have written a shorter letter.”
Think about this quote as you are working on your governance plan because it's very easy for these documents to get very, very long. The longer they are, the more difficult it is for users to digest them. Putting in the extra time needed to make sure your plan is as concise as possible will make it easier for your users to understand and follow the rules.

As you create your governance plan, think about how you might create companion material to go with the plan—a “cheat sheet” of your most important guiding principles, a laminated card or magnet with your vision statement, individual brief job descriptions for each core role, a records retention “ad campaign,” or supplements to the governance plan (shorter letters) that will help users remember and internalize this important content.

**Vision Statement**

A vision statement describes, at a high level, what you want to achieve with SharePoint, essentially describing how the solution delivers value to the enterprise and to each individual employee. A clear vision statement provides critical guidance to the inevitable decision trade-offs you will need to make in thinking about your governance plan. The vision statement is typically written when the project to create the solution is initiated and may be refined as the project matures.

Here are two examples of vision statements:

- “The portal enables the creation, management, and sharing of document assets in a business-driven environment for collaboration, classification, and access across all of the company. Through its workflow capabilities and application development foundation, it will support the organization’s information management needs and provide a business process framework for all business units.”
- “SharePoint provides a holistic view of organizational assets that simplifies employee interaction with our enterprise business systems and helps improve collaboration within the company and with our suppliers, partners, and customers, thus improving employee productivity and employee and customer satisfaction.”

Once you have set forth your vision statement, the next step is to gather your core project team together to think about the principles that will guide the creation of your governance plan.
Roles and Responsibilities

Roles and responsibilities describe how each employee as an individual or as a member of a particular role or group is responsible for ensuring success of the solution. Documenting roles and responsibilities is a critical aspect of the governance plan, which defines who has authority to mediate conflicting requirements and make overall branding and policy decisions. Some of the policy decisions that will frame your governance plan and form the basis of the specifics of your roles and responsibilities definition include deciding the following:

- Who is responsible for technical management of the environment, including hardware and software implementation, configuration, and maintenance? Who can install new Web Parts, features, or other code enhancements?
- Who is allowed or who will be responsible for setting up new sites? If this responsibility is controlled by the IT department, then it is likely that IT will have to negotiate a service-level agreement (SLA) for site set-up responsiveness with the business stakeholders. If this responsibility is delegated, users will need training to ensure that they follow acceptable conventions for naming, storage, and so on.
- Who has access to each page/site? Who can grant access to each?
- How much responsibility for page/site design will you delegate to page owners? Can users modify Web Parts (Web-based data and UI components) on pages that they “own” in team sites? Can they modify Web Parts on pages that are part of the corporate intranet publishing solution?
- Will some Web Parts be “fixed” on the page, or will page owners be allowed to customize all of the content on their pages?
- Who is responsible for managing metadata? Who can set up or request new Content Types or Site Columns? How much central control do you want to have over the values in Site Columns? (Content Types and Site Columns allow you to specify elements in your taxonomy. These SharePoint features are discussed in detail in Chapter 3, “SharePoint 2010: Architecture Fundamentals.”)
- If the governance plan says that page and site owners are responsible for content management, are you prepared to decommission pages where no one in the organization will step up to page ownership responsibilities?
There are several key roles to consider. In smaller organizations, many roles may be fulfilled by a single individual. Table 4-1 and Table 4-2 present lists of typical roles and responsibilities in successful solutions. You will likely need to adapt both the responsibilities and even the terms you use to describe each role for your organization, but these lists give you a good place to start.

**Table 4-1 Overall Roles for the Solution**

<table>
<thead>
<tr>
<th>Role</th>
<th>Key Responsibilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Executive Sponsor</td>
<td>Serves as the executive level “champion” for the solution. The primary responsibility of the Executive Sponsor is strategic, positioning the solution as a critical mechanism for achieving business value and helping to communicate the value of the solution to the management levels of the organization.</td>
</tr>
<tr>
<td>Governance Board/ Steering Committee</td>
<td>Serves as a governance body with ultimate responsibility for meeting the goals of the solution. This Board is typically comprised of representatives of each of the major businesses represented in the solution, including corporate communications, HR, and IT.</td>
</tr>
<tr>
<td>Business Owner</td>
<td>Manages the overall design and functionality integrity of the solution from a business perspective. The Business Owner does not have to be an IT expert but his job function typically includes responsibility for internal communications.</td>
</tr>
<tr>
<td>Solution Administrator (Technology)</td>
<td>Manages the overall design and functionality integrity of the solution from a technology perspective. Works in partnership with the Business Owner.</td>
</tr>
<tr>
<td>Technology Support Team</td>
<td>Ensures the technical integrity of the solution. Makes regular backups of the solution and its content. Also usually sets up and maintains the security model, at least the components in the Active Directory. Develops new Web Parts and provides support to Site Sponsors/Owners seeking enhancements to their pages or new uses of the solution.</td>
</tr>
<tr>
<td>Role</td>
<td>Key Responsibilities</td>
</tr>
<tr>
<td>-------------------------------------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Metadata Steering Committee/Content Steward</td>
<td>While some large organizations may already have an individual or group serving in this role, SharePoint 2010’s enterprise content capabilities require an overall metadata management plan and an individual or team responsible for maintaining the “metadata dictionary” over the life of the solution.</td>
</tr>
<tr>
<td>SharePoint “Coach” or Center of Excellence</td>
<td>Provides coaching and design consulting to new users who have Full Control design privileges to ensure that best practices are followed and that the appropriate SharePoint features are applied in individual sites or Site Collections. In many organizations, a particular SharePoint feature becomes the defacto solution for any business problem—a “hammer in search of a nail.” For example, you don’t want to see users creating wiki sites when what they really need is a custom list. If you will be delegating site design capabilities to users who have limited solution design experience (which pretty much means every organization), having experienced site design “coaches” available to help users get started can ensure that you end up with a solution that actually gets used. One successful organization implemented “drop-in” office hours where new site owners could come and spend an hour or two with an experienced solution architect to ensure that they got appropriate guidance (in addition to formal training).Several others have established in-house consulting services to help new site owners get started. In many cases, the first hour or two of consulting is “free,” and services beyond that require a charge code.</td>
</tr>
<tr>
<td>“Power Users” Community of Practice</td>
<td>Supports the successful deployment of SharePoint in the organization by sharing best practices and lessons learned in a Community of Practice team site. Members serve as SharePoint advocates and change agents.</td>
</tr>
</tbody>
</table>
Table 4-2 Roles for Each Site or Site Collection

<table>
<thead>
<tr>
<th>Role</th>
<th>Key Responsibilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site Sponsor/Owner</td>
<td>Serves as the centralized, primary role for ensuring that content for a particular page/site is properly collected, reviewed, published, and maintained over time. The Site Sponsor is an expert in the content that is showcased on the site or page and will likely need to learn about SharePoint, but his or her primary expertise is business-focused. The Site Sponsor/Owner may designate a Site Steward/Contact who will provide the primary day-to-day interface between their business and the users of the page or site.</td>
</tr>
<tr>
<td>Site Steward/Contact</td>
<td>Manages the site day-to-day by executing the functions required to ensure that the content on the site or page is accurate and relevant, including records retention codes. Monitors site security to ensure that the security model for the site matches the goals of the Business Owner and Site Sponsor/Owner and support Users of the site by serving as the primary identified contact point for the site. Acts as the Content Steward for the sites for which they are responsible.</td>
</tr>
<tr>
<td>Site Designer</td>
<td>In an environment where site design is delegated to business users, the Site Designer creates and maintains the site (or Site Collection) design. Follows design best practices and guiding principles to ensure that even sites with limited access are optimized for end-user value. Defines and executes the security plan for the site.</td>
</tr>
<tr>
<td>Users</td>
<td>Uses the solution to access and share information. Users may have different access permissions in different areas of the solution, sometimes acting as a Contributor (content producer) and other times acting as a Visitor (content consumer).</td>
</tr>
</tbody>
</table>

**Guiding Principles**

Guiding principles define organizational preferences supporting the vision. These critical statements reflect best practices that all users and site designers must understand and internalize to ensure the success of your
solution. It is very likely that your organization will share many of the same guiding principles that we’ve seen in successful SharePoint deployments.

Use the examples shown in Table 4-3 to help define a starter set of guiding principles for your solution. Think about how you might create some supplemental reference material to help users internalize these principles—or consider adding a “principle of the day” to the home page of your solution. If users have a good understanding of the guiding principles, you have a reasonable shot at getting them to follow your governance guidelines.

Table 4-3  Examples of Guiding Principles

<table>
<thead>
<tr>
<th>Governance Guiding Principle</th>
<th>Implication</th>
<th>Remember ...</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General Principles</strong></td>
<td>The different audiences for sites allow you to adapt the governance model according to business needs. While some policies will be enforced across the entire organization, others may be determined by each site owner. This means that there may be some content that will not be as structured or searchable compared to other content that will be consistently “managed.” Content ownership, security, management, and contribution privileges are distributed across the entire organization, including users who may not have had content contribution, security, or records management privileges in the past. All content contributors need to be aware of organization policies for business-appropriate use of IT resources.</td>
<td>One size does not fit all. Yes, we’ve got rules, but we’re smart enough to know when it’s appropriate to deviate from a standard in order to achieve a business objective more effectively. Existing rules still apply—would you want your mother/boss/customer/client to see this picture? Should your mother/boss/customer/client be able to see this content?</td>
</tr>
</tbody>
</table>

(continues)
Table 4-3 Examples of Guiding Principles (continued)

<table>
<thead>
<tr>
<th>Governance Guiding Principle</th>
<th>Implication</th>
<th>Remember ...</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Security Principles</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overall firm security policies about who can see what content still apply and govern the portal.</td>
<td>Users need to think about where content is published to ensure that confidential content is only shared on sites with limited access. Users may have different permissions on different areas of the portal, which has an implication for both governance and training. While most users may not have content contribution privileges for tightly governed intranet pages, every user has Full Control privileges on his or her My Site.</td>
<td>Publish to meet the “need to know” standards for your organization: No more, no less! You may not have the same permissions on every page of the portal.</td>
</tr>
<tr>
<td>Role-based security will govern access control and permissions on each area of the portal (intranet and extranet).</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Site Design Principles</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Provide a consistent user experience—users should be able to consistently find key information on any collaboration site and search for the content they need.</td>
<td>All sites will also follow a consistent baseline design template to ensure consistency and usability across collaboration sites.</td>
<td>Hey—it’s not about you, it’s about the user!</td>
</tr>
<tr>
<td>Design to minimize training requirements for end users—use the best (and simplest) feature for each business objective.</td>
<td>Any user with site design privileges will be encouraged to participate in training to ensure that they use the most appropriate Web Parts and lists for each task.</td>
<td>Just because you can, doesn’t mean you should. You don’t really need to try every new feature!</td>
</tr>
<tr>
<td>Ensure that “findability” governs design decisions—optimize metadata and site configuration to</td>
<td>In situations where design trade-offs must be considered (more metadata versus less, information above or below “the fold,” duplicating links in multiple</td>
<td>Avoid building the roach motel—where content “checks in” but it never “checks out.”</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Governance Guiding Principle</td>
<td>Implication</td>
<td>Remember ...</td>
</tr>
<tr>
<td>------------------------------</td>
<td>-------------</td>
<td>--------------</td>
</tr>
<tr>
<td>provide the best value for the end-user audience, not just the content contributor.</td>
<td>places), decisions should be made to make it easier for end users rather than content contributors. “Findability” means designing sites so that important information is easily visible and that navigational cues are used to help users easily find key information. It also means using metadata to improve accuracy of search results. Both the “browse” and “search” experience for users will guide design decisions in initial site development and modification over time.</td>
<td>It’s all about Spiderman: “With great power comes great responsibility.” Use your powers wisely.</td>
</tr>
<tr>
<td>Site designers must understand the objectives of the recommended site design standards and make changes only when they can be justified with a valid business need.</td>
<td>Even though site designers may have permissions that allow them to make changes to site templates and other “controlled” site areas, they agree not to arbitrarily make changes to the basic site templates based on personal preference. Suggestions for changes to the standard site templates should be elevated to the Governance/Steering Committee.</td>
<td></td>
</tr>
<tr>
<td>All sites/pages must have a clearly identified content “owner.”</td>
<td>Users need to know who to contact if information on a page or site is out of date or inaccurate.</td>
<td>Make it obvious who owns the content on all pages and sites.</td>
</tr>
</tbody>
</table>

(continues)
Table 4-3 Examples of Guiding Principles (continued)

<table>
<thead>
<tr>
<th>Governance Guiding Principle</th>
<th>Implication</th>
<th>Remember …</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Content Principles</strong></td>
<td>This means that the official version of a document is posted once by the content owner (which may be a department, not necessarily an individual). For the reader’s convenience, users may create a link to the official copy of a document from anywhere in SharePoint but should not post a “convenience copy.” Users should not post copies of documents to their personal hard drives or My Sites if they exist elsewhere in the solution.</td>
<td>Post one copy of a document.</td>
</tr>
<tr>
<td>All content is posted in just one place. Users who need access to content should create links to the document ID* for the document to access the content from its “authoritative” location.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Edit in place—don’t delete documents to create new versions.</td>
<td>Version control will be enabled in document libraries where prior versions need to be retained during document creation or editing. If prior versions need to be retained permanently for legal purposes, “old” versions of documents should be stored in an archive location or library. Documents will be edited in place rather than deleted and re-added so that document links created by other users will not break.</td>
<td>Someone may be linking to your documents. Update, don’t delete!</td>
</tr>
</tbody>
</table>

*Document ID is a new feature in SharePoint 2010. The document ID is a unique identifier (a static URL) for the document that remains associated with the document even if it is moved to another location.
<table>
<thead>
<tr>
<th>Governance Guiding Principle</th>
<th>Implication</th>
<th>Remember ...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site Sponsors/Owners are accountable, but everyone owns the responsibility for content management.</td>
<td>All content posted to a site shared by more than a small team will be governed by a content management process that ensures content is accurate, relevant, and current. Site Sponsors/Owners are responsible and accountable for content quality and currency and archiving old content on a timely basis, but site users are responsible for making Site Sponsors/Owners aware of content that needs updating.</td>
<td>We’re all responsible for content management.</td>
</tr>
<tr>
<td>Links instead of e-mail attachments.</td>
<td>Users should send links to content whenever possible rather than e-mail attachments.</td>
<td>No more e-mail attachments!</td>
</tr>
<tr>
<td>Copyrighted material will not be added to the portal without the proper licensing or approval.</td>
<td>Copyright violations can be very costly. This is probably one of the most frequently ignored principles on corporate intranets and one that your corporate librarian (if your organization still has one) is going to be particularly concerned about.</td>
<td>Don’t publish what we don’t own.</td>
</tr>
</tbody>
</table>

It is especially important to remember the “one size does not fit all” guiding principle when it comes to governance. Use Figure 4-1 to help plan both the principles and communications around your governance plan.
Policies define rules for SharePoint use; standards describe best practices. From a governance perspective, policies are usually driven by statutory, regulatory, or organizational requirements. Users are expected to meet policies without deviation. If your organization is subject to regulatory oversight, be sure you can actually enforce your policies because a failure to do so may target you as being noncompliant. Standards are usually established to encourage consistent practices. Users may adopt some elements of the standard that work for them while not implementing others.

As applied to the topic of file names, a policy might state, “Do not include dates or version numbers in file names,” while a standard might state “File names should be topical and descriptive.” In another example, the policy might state “All SharePoint sites will have a primary and secondary contact responsible for the site and its content,” and the standard might state, “The site contact is listed on the site home page and in the site directory.”

Each organization will have its own set of policies and standards. General topics should include content oversight, site design, branding and user experience, site management, back-end systems (hardware, software, and database management), and security. To ensure your content is relevant, do the following:
■ Verify that your SharePoint policies and standards do not conflict with broader organizational polices.
■ Publish policies and standards where users can easily find and follow them. Some policies may need to be published to “all readers,” while others may need to be secured to protect the integrity of the application.
■ Regularly review and revise policies and standards to keep them aligned to organizational needs.

The next sections describe some specific examples of policies and standards that you might want to consider for your organization. This is not an exhaustive list but includes some reusable ideas to consider.

**Content Policies and Standards**
Consider the following example content policies and standards, each of which is discussed in more detail in this section:

■ Posting content to existing pages or sites
■ Posting content to the home page
■ Content auditing and review
■ Records retention

**Posting Content to Existing Pages or Sites**  You will definitely need a policy or standard to ensure that the “one copy of a document” guiding principle is enabled. Take a look at the Content Contribution and Ownership sidebar that follows for a good policy to guide users regarding only posting content that they “own.” In addition, consider creating policies for these other content topics:

■ **Content posting cycle.** Create a policy to remind users to delete content from its original source or collaboration environment when it is “published” to the official SharePoint repository (or use automated content disposition policies to make sure this happens routinely).
■ **Content editing.** Because content contributors on one site might have a link to content on a site they don’t own, it is important to have a standard reminding users to “edit documents in place” so that links do not break.
- **Content formats and names.** Decide whether you need policies for where certain types of content are stored in your solution and whether or not you need file naming standards. Consider a policy for defining what types of content belong in your SharePoint solution and what types of content belong in other locations. Given the rich search capabilities in SharePoint, it is not always necessary to define strict standards for file names other than to encourage users to choose names that will help someone else identify the file contents.

- **Content containing links.** Clearly define who is accountable for making sure that links in content or on a site are not “broken.”

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**Sample Policy: Content Contribution and Ownership**

Site Sponsors are accountable for ensuring that the content posted on their pages is accurate and relevant and complies with records retention policies.

Only post content on a collaboration site or in My Site that you “own.” Ownership means that the document is or was created by someone in your department, and your department is committed to maintaining the content for its entire life cycle. If a document is not owned by your department, but access to the document is needed on your site, ask the owner to post it and then create a link to it on your site.

Do not post content that you do not own the legal right to post electronically, including .pdfs or scanned images of journal articles or other documents from sources to which your organization does not have online publishing rights. A link may be created to this content on the content owner’s Web site.

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**Posting Content to the Home Page** You will definitely want to consider creating a specific policy for posting content to the home page of your portal solution. Most content on the home page should be carefully controlled, especially for your intranet. After all, you get one chance to make a first impression, and your home page is where users get that impression! On an enterprise intranet, the home page can become a battle for “real estate” among several business units, usually Corporate Communications or Marketing and Human Resources. Even if your “solution” is a project team
site, you will need to carefully consider how information is presented on the home page of the site and who is allowed to create and place content in this critical location. Some organizations solve the battle for home page real estate by assigning areas of the page (“neighborhoods”) to specific departments. Others assign primary ownership to one specific department (often the department responsible for internal communications) but use the Portal Governance Board or Steering Committee to provide oversight and escalation if there are disagreements about content.

**Content Auditing and Review** Consider a policy to define the frequency and type of review that you will have on each type of content or site. All content posted to enterprise-wide sites should be governed by a content management process that ensures content is accurate, relevant, and current, but even private team sites should have a content management strategy. For most sites, the maximum content review cycle should be no more than 12 months from the date content is posted. Confirm that your review cycles conform to any regulatory or statutory requirements.

**Records Retention** Be sure you define clear policies regarding how your records retention policies will be implemented in your solution and the responsibilities content owners have to identify content as records and associate the appropriate record retention code to a given content item.

**Design Policies and Standards**

Consider creating policies and standards for each of the following design elements:

- Creating new subsites
- Page layout and organization
- Content Types and metadata
- Content-specific guidelines/policies
- Security
- Branding

**Creating New Subsites** If individual “end-user” site owners will have permissions that enable them to create their own information architectures for sites under their control, it is important to provide some guidance to
help them understand best practices for creating nodes in an information hierarchy. For example

- **Content ownership.** If a particular business group is the primary owner of all of the content to be posted on the page or site, creating a separate subsite (“node”) for that business group probably makes sense.

- **Security.** If a significant group of content is highly sensitive, create a separate subsite, workspace, or node to more easily control the security settings for that content.

- **Database administration.** If there is a need to backup, restore, or otherwise manage content in a single group, having a unique subsite or page for that content will make these processes easier to manage.

- **Navigation.** Minimize the levels of nesting in the information architecture. It is a good practice to keep the number of levels in the hierarchy to no more than three so that users do not have to continuously “click through” to get to critical content. If a new node in the architecture is not needed for any of the other reasons just outlined, don’t create it.

**Page Layout and Organization**  Nothing makes a site more confusing than a random collection of disorganized Web Parts cluttering a page. Anyone with page design permissions needs to remember the guiding principle about focusing on the end user, but these page designers should also be familiar with general design usability best practices. Usability guru Jakob Nielsen publishes a bi-weekly newsletter with excellent advice, best practices, and tips for Web page designers. You can sign up to get your copy directly in your e-mail inbox at http://www.useit.com/alertbox. Some of the recommended best practices for page design include

- **Consistency.** Establish a standard design for all pages of each site to ensure that users can navigate without getting surprised by changing page layouts.

- **Speed.** Make sure that users can get important information as quickly as possible.

- **Scrolling.** Does the page layout require that users scroll up or down or left to right to find important information? Design a page to fit your organization’s standard screen size and then make sure that
users do not have to scroll to find the most important information or Web Parts on the page. Scrolling should never be tolerated for critical information.

- **Important content in the upper left.** Put the most important content toward the top-left part of the page. This is where readers will “land” visually when they get to the page. If the most important information is in this location, chances are better for capturing the user’s attention than if the information is buried somewhere else on the page.

### Content Types and Metadata
A Content Type is a collection of settings that define a particular type of information, such as a project plan or financial report, and can be defined for the entire enterprise, for an entire Site Collection, or it can be defined “locally” for a specific page or site. Site Columns are the “properties” of a particular type of content. Columns are part of the attributes or properties of a Content Type. Site Columns can also be defined across the entire solution or for an individual site or Site Collection. Content Types and Site Columns are both types of “metadata” in SharePoint 2010. The values for many Site Columns (metadata) are specific to specific sites. Best practices and concepts for defining a good metadata structure are presented in Chapter 5, “Planning Your Information Architecture.” Your governance plan needs to include your standards and policies for the Content Types and Site Columns used in your solution as well as policies for how users can request the creation of a new enterprise Content Type or Site Column.

### Social Tags and Ratings
Social feedback, content added by users as tags and ratings, is new in SharePoint 2010. These capabilities allow users to participate and interact with your SharePoint solution and improve content “findability” by allowing individuals to supplement formal classification with additional tags they find personally meaningful. Social tags refer to metadata that users add to content to help define what it is, what it includes, or what it does. Your governance policies should include guidelines for how you want users to participate in social tagging and provide guidance and examples of meaningful tags for your organization. You should also make sure that users understand that social tagging uses the Search Index to provide security trimming on content that is stored in SharePoint, which means that users will be able to tag confidential documents, but those tags are not visible to anyone who doesn’t have read access to the document.
If you choose to activate the Ratings feature in SharePoint 2010, users will have the option to “rate” documents (and pages) on a scale of 0 to 5 stars. Your governance plan should document how you intend to use ratings in your organization—for example, are you asking users to rate whether they think the content is well-written or whether or not they think it is useful? An October 2009 article in the Wall Street Journal\(^2\) cited a statistic that states when consumers write online reviews of products, they tend to leave positive ratings: The average rating for items online is 4.3 stars out of 5. If you want to have meaningful ratings on content in your organization, you will need to define your expectations and make it clear to users how ratings will be used. Obviously, if all the ratings are positive, it’s going to be hard to find value. Some organizations try to identify stellar examples as best practices, but this is a very difficult process to sustain over time without dedicated resources. Allowing users to rate content as they see fit may help identify potential best practices, but you need to be careful about assuming that low-rated content is necessarily “bad.”

**Content-specific Guidelines/Policies** High-impact collaboration solutions ensure that content is easily accessible by end users. This means that the content is not just “findable,” but that it is structured and written to be consumed online. Assuming that your content contributors are good writers to begin with, they may not be familiar with best practices for writing for the Web. It’s helpful to provide some standards and policies for specific SharePoint lists and libraries. Following are several examples of standards, policies, and best practices you may wish to consider for your solution.

- **Blogs and wikis.** End users should be aware of what your organization considers appropriate for posting social content to personal sites such as blogs and wikis. While in some organizations, blogging about your hobbies is acceptable; in others, it’s not. Be very thoughtful about how you define governance policies for social content because you need to be sure that you are not placing so many rules on your content that you will discourage content contributions. There is no single right answer for every organization. Chapter 7

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includes some specific governance suggestions for social computing features that you should consider as part of your governance plan.

- **Announcements.** Overall, the tone of all text should be concise and helpful. For announcements, create a descriptive but succinct title. In the announcement text, put the important information first and write briefly, using no more than four to five sentences. Try to avoid using large fonts and avoid lots of white space in announcement text. Do not underline anything that isn’t a hyperlink. Make the link text a concise description of the link so that it aids the reader in scanning:
  - **Bad:** Click here for the latest application form
  - **Better:** Download the latest application form
  - **Best:** Download the latest application form

- **Discussion boards.** Effective discussion boards must have someone who will serve as the discussion board moderator to ensure that questions are answered and that the discussion board adds value. In some organizations, you will need to consult with the Legal department to ensure that information about products, research, patients, data, regulated content, or legal issues are appropriate in online discussion boards.

- **Picture or video libraries.** Content posted to picture or video libraries should be business-related and appropriate for publication in the corporate environment. Be sure to obtain permission from any individual in a picture or video that will be posted to a site before it is uploaded. Also make sure that your organization owns the image or has obtained the proper licenses for its use.

- **Links.** In some cases, users and site designers will have the option to indicate whether or not a link should open up in a new window. In general, the following standards are recommended for links:
  - Links to documents or pages within the Site Collection: Do not open in a new window.
  - Links to documents or pages in another Site Collection: Open in a new window.
  - Links outside your intranet (to another application within the company or to an Internet site): Open in a new window.

- **Document libraries.** (For additional best practices for document libraries, please see Chapter 5.) Consider how documents will be used when you upload to SharePoint. Documents may be uploaded to SharePoint using almost any document format (Word, .pdf, Excel, PowerPoint, and so on). If you upload documents in their native formats, users will be able to download them and easily edit
them to create their own versions. Unless they have Contributor privileges to a library, they will not be able to post them back to the same sites. Documents that might be reused as an example for others should always be uploaded in their “native,” editable formats. Documents that must be protected from editing or changing, even on a “private” copy, should be uploaded in a “protected” format or with passwords for editing. Consider the .pdf format for very large documents given that this format will reduce the file size and thus download time for others.

Security Security considerations are one of the most important design elements for a SharePoint site. It is important to think about security during the design process because understanding how objects will need to be secured on the site will affect the site structure, page layout, and metadata design. Considering that in almost all SharePoint deployments, end users will have some capabilities to manage security for sites they control, it is critical to ensure that anyone with permissions to assign security understands how SharePoint security works.

SharePoint provides the capability to secure content down to the item level and provides multiple options for creating security groups. This is both a blessing (due to the flexibility it enables) and a curse (because it makes it very easy for users to create overly complex and virtually unmanageable security models). As a best practice, it is helpful to offer “security planning” consulting to users who are new to SharePoint because planning security can easily fall into the category we call “Don’t try this at home.”

We talk more about planning security in Chapter 8, “Planning Your Security Model.” In your governance plan, you need to clearly articulate specific security policies and how they should be applied within SharePoint sites.

Branding The Corporate Communications department (or its equivalent) in most organizations will typically define branding standards for your intranet and Internet presence. A key governance decision you need to think about is whether the corporate branding can be changed in a given SharePoint Site Collection. There may be valid business reasons to deviate from the corporate brand: For example, you may want an extranet collaboration site that is “co-branded” with your organization and a partner. Within an intranet solution, users may find it confusing and wonder “Where am I?” if the site branding changes from site to site, so you
need to consider defining branding standards and policies with the site user in mind. Using some elements of color or brand variability in the site branding might help reinforce your security model. For example, you may want the site “brand” or theme to communicate the security model on the site—one theme or brand for enterprise-wide intranet sites and another theme or brand for secure team sites. This can help to provide visual cues to content contributors, reminding them when they post to a site with the “public” brand, the content can generally be seen by everyone in the organization.

**Key Points**

The key takeaways to remember from this chapter are to

- Establish a governance plan to ensure quality and relevance of content and ensure that all users understand their roles and responsibilities.
- Make sure that you have a Governance Board or Steering Committee with a strong advocate in the role of Executive Sponsor.
- Keep your governance model simple. Solutions need a strong governance model, but they don’t need complicated models with lots of bureaucracy.
- Don’t make the solution itself more complicated than it needs to be. Be careful about “over designing.” Just because SharePoint has a cool feature doesn’t mean that you need to deploy it—at least not right away.
- Ensure that all users with design or Full Control privileges have internalized your design guiding principles and that content contributors understand guiding principles related to content.
- Think about how you will ensure compliance with your governance plan over time, particularly for highly visible sites. You may want to carefully monitor and review some sites and only spot-check others.
- An effective governance plan doesn’t have to constrain every move—it has to provide guidance to users to ensure that your solution remains effective and vibrant over time.
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