George W. Anderson

#### Fourth Edition

Thoroughly Updated and Expanded, with Extensive New Coverage!

Sams Teach Yourself

# SAP

in 24 Hours

SAMS

Dr. George W. Anderson

# Sams Teach Yourself

# SAP



#### Sams Teach Yourself SAP in 24 Hours

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# **Contents at a Glance**

	Introduction	
Part I: Intr	roduction to SAP	
HOUR 1	SAP Explained	7
2	SAP Business Basics	17
3	SAP Technology Basics	29
4	SAP Project Basics	43
PART II: S	AP Applications and Components	
HOUR 5	Overview of SAP Applications and Components	53
6	SAP NetWeaver: The Foundation for SAP	71
7	SAP ERP: SAP's Core Product	85
8	The SAP Business Suite and Other SAP Applications	103
Part III: S	AP for Business Users	
HOUR 9	A Business User's Perspective on Implementing SAP	117
10	Logging On and Using SAP's User Interface	127
11	SAP User Roles and Authorizations	147
12	Using SAP to Do Your Job	157
13	Reporting and Query Basics	175
14	Extending SAP with Microsoft and Other Products	195
Part IV: S	AP for IT Professionals	
HOUR 15	A Project Manager's Perspective on Implementing SAP	215
16	A Basis Professional's Perspective on SAP	231
17	A Developer's Perspective on SAP	243
18	SAP Technical Installation	257
19	SAP and the Cloud	279
20	SAP System Administration and Management	301
21	SAP Enhancements, Upgrades, and More	317

#### Sams Teach Yourself SAP in 24 Hours

Part V: S	AP Careers
HOUR 2	2 SAP Careers for the Business Professional 329
2	343 SAP Careers for the IT Professional
2	1 Other Resources and Closing Thoughts
Part VI: A	ppendixes
	Case Study Answers 367
1	SAP Acronyms and Common Terms
	Index

# **Table of Contents**

Introduction	
Part I: Introduction to SAP	
HOUR 1: SAP Explained	7
Overview of SAP: The Company	7
SAP Business Applications or Components	9
The SAP Client Concept	12
Running SAP	13
HOUR 2: SAP Business Basics	17
Business Architecture and the Business Roadmap	17
ASAP and Business Blueprinting	21
The Business Perspective	22
Other Perspectives: Mapping Business Needs to SAP Applications	24
Combining the Four Perspectives	26
HOUR 3: SAP Technology Basics	29
SAP Technology 101: SAP Basis	29
SAP Hardware Basics	30
SAP-Supported Operating Systems	36
Database Basics for SAP	39
HOUR 4: SAP Project Basics	43
SAP Project Implementation Basics	43
SAP Realization: Resources and Timelines	44
Accessing Your New SAP Systems	47
Typical Day-to-Day Business Processes	48

## **PART II: SAP Applications and Components**

HOUR 5: Overview of SAP Applications and Components	53
SAP Business Suite Components	53
SAP NetWeaver Components	57
Small and Medium Enterprises	58
SAP Business One	59
SAP Business ByDesign	61
SAP All-in-One	63
Selecting the "Best" SAP Solution	66
Choosing SAP SME Offerings over Business Suite	68
HOUR 6: SAP NetWeaver: The Foundation for SAP	71
A Brief History of SAP NetWeaver	71
The SAP NetWeaver Umbrella: Six Areas	73
Strategic Benefits of NetWeaver	78
SAP NetWeaver Building Blocks	79
Bringing It All Together	81
HOUR 7: SAP ERP: SAP's Core Product	85
The Evolution of SAP ERP	86
SAP ERP Business Scenarios and Modules	86
HOUR 8: The SAP Business Suite and Other SAP Applications	103
SAP Innovations 2010	103
SAP Supply Chain Management	104
SAP Customer Relationship Management	106
SAP PLM: A Platform for Product Management	108
SAP Supplier Relationship Management	110
SAP Manufacturing	112
SAP Service and Asset Management	113

#### **Part III: SAP for Business Users**

HOUR 9: A Business User's Perspective on Implementing SAP	117
The Business User's Role	117
The SAP Project Lifecycle	120
HOUR 10: Logging On and Using SAP's User Interface	127
Logging On to Access SAP	127
SAPGUI Basics	131
Navigation Basics	132
Understanding and Using Fields	132
Display Fields	140
Screen Objects	140
Using the Windows Clipboard	143
<b>HOUR 11:</b> SAP User Roles and Authorizations	147
What Is SAP Security?	147
Overview of SAP Security	148
SAP Authorizations	151
HOUR 12: Using SAP to Do Your Job	157
Which SAP User Interface Is Best?	157
WinGUI Configuration and Tools	159
The Customizing of Local Layout Button	159
New Visual Design Selection	164
Clipboard Selection	165
Font Selection	166
Status Field's System Information Icon	166
Printing from SAP	167
Using Your SAPGUI	170
HOUR 13: Reporting and Query Basics	175
Reporting Tools	175
General Report Selection	177

#### Sams Teach Yourself SAP in 24 Hours

and QuickViewer)	181
SAP Queries	
Understanding the InfoSet (Ad Hoc) Query	190
Understanding the QuickViewer	
HOUR 14: Extending SAP with Microsoft and Other Products	195
SAP Integration with Desktop Applications	195
SAP Assistant	196
Using %pc to Download Data	196
Integrating SAP with Office: Quick References	203
Integrating SAP with Microsoft SharePoint	205
Introduction to Microsoft Duet	207
Introduction to Duet Enterprise	208
Using OpenText with SAP	210
Using SAP Interactive Forms by Adobe	211
Integrating Microsoft Directory with SAP	212
Part IV: SAP for IT Professionals	
HOUR 15: A Project Manager's Perspective on Implementing SAP	215
SAP and the ASAP Methodology	215
The Project Management Office	220
Assembling the Project Team	222
SAP Project Leadership	224
Contemporary Tools and Methodologies	227
Project Closeout	227
HOUR 16: A Basis Professional's Perspective on SAP	231
Shifting Focus: From Business to Technology	231
Installation Master Guides and SAP Notes	232
Setting the Stage: The SAP Landscape	233
Architecture and Sizing Considerations	233

#### Contents

SAP Tec	hnical Readiness and Security Considerations	236
Staffing	and Operational Considerations	239
HOUR 17: A	Developer's Perspective on SAP	243
Progran	nming Tools	243
Develop	per and SAP Methodologies	246
Configu	ration and the SAP IMG	248
Differer	nt Views of the IMG	249
Additio	nal IMG Fundamentals	251
HOUR 18: SA	AP Technical Installation	257
Installa	tion Overview	257
SAP Ins	tallation Planning	258
Infrastr	ucture Readiness	259
Perform	ning a Real-World SAP Installation	261
Post-Ins	stallation Tasks	268
Installi	ng the SAP Trial Version	269
Introdu	cing SAP Single Sign-On	275
HOUR 19: SA	AP and the Cloud	279
Introdu	ction to the Cloud	279
Cloud C	Consumer Perspective	282
Cloud S	ervice Provider Perspective	284
Brief Hi	story of Computing and the Cloud	287
Bringin	g Together SAP and the Cloud	292
HOUR 20: SA	AP System Administration and Management	301
Admini	stering SAP	301
Managi	ing the SAP System	306
HOUR 21: SA	AP Enhancements, Upgrades, and More	317
Setting	the Stage: Making Changes to SAP	317
Enhanc	ement and Upgrade Terminology	318
More or	n SAP Upgrades	322
High-Le	evel Project Planning	322

#### Sams Teach Yourself SAP in 24 Hours

#### **Part V: SAP Careers**

<b>HOUR 22:</b> SAP Careers for the Business Professional	329
What Exactly Is an SAP Business Professional?	329
Where Do I Look?	330
More Details	334
Preparing for a Business Career in SAP	336
HOUR 23: SAP Careers for the IT Professional	343
SAP, Its Partners, and Its Customers	343
What Types of Opportunities Are Available?	345
Preparing for a Career in SAP	347
Working on the Intangibles	350
HOUR 24: Other Resources and Closing Thoughts	353
Professional Resources	353
Internet Resources	359
SAP Conferences	361
Employment and Career Opportunities	363
Part VI: Appendixes	
A Case Study Answers	367
<b>B</b> SAP Acronyms and Common Terms	381
Index	393

# **About the Author**

Dr. George W. Anderson and his family reside in Houston, Texas. An SAP consultant for 13 years and IT professional for 25, he has had the privilege of working on countless SAP implementations, upgrades, migrations, and other enterprise projects. George is a certified SAP Technical Consultant, SAP NetWeaver '04 OS/DB Migration Consultant, PMI PMP, MCSE, MBA, and recent PhD. He loves to write and share with others through books, journal articles, conference sessions, and more. At Microsoft, he provides thought leadership and strategic direction around next-generation platforms and architectures for SAP and other Line of Business (LOB) applications. He also holds a seat as one of several technical editors for the SAP Professional Journal. When not spending time with his family, friends, and extended church family, he enjoys blogging on Microsoft's TechNet site (http://www.blogs.technet.com/b/lobapps/), playing guitar, studying the Bible, trying new steakhouses, and hearing from his readers. Catch him at his best after midnight at george.anderson@microsoft.com.

# **Dedication**

To my beautiful and encouraging wife Michelle, my three amazing kids, my friend Fazil Osman who worked with and inspired me to write my first SAP book, my friend Raymond Smith who helped me with this most recent book, and finally to all my little helpers (you know who you are!), this book is dedicated to you.

# **Acknowledgments**

When I started my SAP career in 1997, I never would have dreamed I'd be where I am today. I've always been a hard worker, sure. But this book and everything else I've achieved really have little to do with me at all. My favorite book says I can do nothing worthwhile apart from God. On the other hand, I can do everything through the One who gives me strength. When I put my faith in these words a decade ago, my life changed. My successes multiplied, but they are His. My family grew larger and closer; they are a blessing from Him. And my work and hobbies evolved and converged in a way I never could have foreseen; they are an awesome gift from Him. So as I sit here thinking about who to acknowledge for making this book possible, I can't help but point to Jesus and say, "Thank You."

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As the reader of this book, you are our most important critic and commentator. We value your opinion and want to know what we're doing right, what we could do better, what areas you'd like to see us publish in, and any other words of wisdom you're willing to pass our way.

You can email or write me directly to let me know what you did or didn't like about this book—as well as what we can do to make our books stronger.

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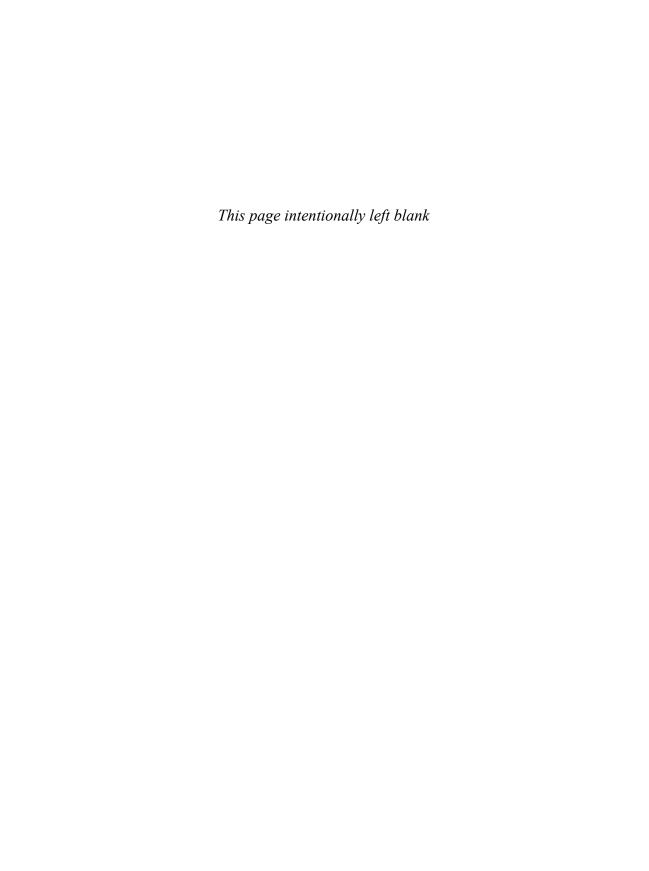
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# Introduction

When I was asked to update *Sams Teach Yourself SAP in 24 Hours*, I was completely thrilled. Seriously! The world of SAP and our world in general have gone through major upheavals in the last few years, and I was excited to share with SAPlings and veterans alike just how much had changed. In the same way, I was anxious to realign and simplify this book in the way that Danielle Larocca, the original Teach Yourself SAP author, had done. She did a magnificent job targeting business users and technical readers at the exclusion of everyone else you tend to find on an SAP project. I've tried to reapply some of that same focus here, which should also (not coincidentally) tackle some of the concerns my readers expressed. And, I wanted to address additional concerns vocalized by my readers related to consistency, eliminating repetition, providing better figures, and more. So thank you for picking up the latest and yes, best ever, edition of *Sams Teach Yourself SAP in 24 Hours*. I am confident you'll find it well worth your investment.

In the name of simplification, I have reorganized and revamped the material into five easy-to-consume sections. Part I naturally kicks off with an introduction to all the basics, followed by Part II, which covers SAP's business applications and components. In this way, the stage is set for us to explore SAP from a business user perspective (Part III) and then from an IT professional's perspective (Part IV). With all your newfound knowledge and focus, and in response to comments from many readers over the last five years, Part V concludes with an extensive section devoted to helping you develop a career in SAP.

Along the way, I cover what matters most to SAP newcomers. For the business users, I go beyond simply setting up access to SAP and customizing your user interface, and I walk you through actual business transactions. Together, we explore what it means to create sales orders, update employee personnel records, and more. I ground you in how SAP users are assigned roles and provided authorization to execute transactions related to those roles. We explore mega business processes like "Order to Cash" and how that breaks down into specific SAP business transactions. And we go into detailed reporting and query processes executed not only from SAP itself but through other commonly used business productivity tools like Microsoft SharePoint, Adobe Forms, and more. In this way, prospective SAP business users can really get a taste of a day-in-the-life-of an SAP end user.

For my technical readers, I've done something new and completely overdue. In the last five years, I've received no less than a hundred emails from newbies interested in installing a "demo" version of SAP. So yes, in this latest Teach Yourself SAP we briefly walk through not only a real technical installation together, step-by-step, but also locate and install SAP's very own freeware. In the past, SAP called this MiniSAP. Today it's

#### Sams Teach Yourself SAP in 24 Hours

simply called the Trial version of SAP. And it will significantly change how you apply what we learn together in these 400+ pages. For example, you should be able to walk away with the hands-on ability to fundamentally administer, tune, maintain, and monitor an SAP system just like SAP IT professionals do in the real world. Together we will also look at what it means to prepare for technical upgrades and manage an SAP project. And by covering SAP technology from several different perspectives including cutting edge insight related to SAP and cloud computing, more experienced technical readers will be even better positioned to make a difference at work.

In the end, you have only invested 24 hours inside the pages of this book, reading and walking through exercises. But armed with new insight and awareness, I bet you'll never look at SAP the same way again. You'll be that rare person who embodies a bit of business know-how as well as technical proficiency. You'll understand the basics of what it means to implement and run SAP. And you'll be on your way to transforming your part of the world.

Thank you again for adding this latest book to your library,

#### SAP?

SAP has come a long way since the first edition of this book was published in the 1990s. From a one-product company to a global software powerhouse creating a suite of applications and technologies used by the majority of big companies around the world, SAP's stable of contemporary business solutions is unparalleled. Even in the wake of economic meltdowns and global shifts in how technology is procured and deployed, the company and its products remain models of both evolution and revolution.

But what is SAP? Unlike familiar office desktop applications like Microsoft Word and Excel used by individuals to perform individual work, SAP's applications are business applications. These are used by individuals to run an entire firm's financial systems, manage warehouse and distribution facilities, figure out how to sell products faster, process payroll for the company, and more. It is this *company-wide* scope of SAP systems that makes them not only complex but critical today to businesses around the world. But these software systems cost millions of dollars and thousands of hours to implement and maintain, and they require knowledgeable technical teams and well-trained business users to get the most out of such an incredibly high investment. That's where this 4th edition of *Teach Yourself SAP in 24 Hours* will be useful, providing the fundamental knowledge needed by IT professionals and business users alike to understand, support, and begin to use SAP.

#### What's Covered

This book covers everything you need to become well acquainted with the core SAP products and components that are often collectively referred to simply as SAP. Though this is a beginner's book, it's provides the most well-rounded and current outlook on SAP today. As a career SAP professional, I've made sure this book reflects the real-world. I share what you *need* to know, understand, and do. This latest edition is more focused than earlier editions and targets the two largest audiences of those interested in learning about SAP: business users and IT professionals. Readers will appreciate how the book is arranged around these two very different types of skill sets and interests. And by providing an overview to each area coupled with actionable steps or guidance, this is the most useful and "teachable" *Teach Yourself SAP in 24 Hours* yet.

The book begins with the basics and by introducing terminology regarding SAP and its business applications, technology underpinnings, and project implementation considerations. From there begins the process of carefully building on your newfound knowledge to piece together the complex world of SAP. The pace of the book is designed to provide a solid foundation up front so you can grasp the more advanced topics covered in later hours. In this way, even a novice will quickly understand what it means to plan for, deploy, and use SAP. With this understanding, you'll also begin to appreciate the roles that so many people play with regard to an implementation project—how executive leadership, project management, business applications, technical deployment, and the application's business users all come together to create and use SAP end-to-end.

The first several chapters establish a better foundation than past editions, bringing readers up to speed before breaking matters down into areas targeted at business users or IT professionals. The book is also organized more clearly by chapter or "hour," making it even easier for readers interested in a particular subject area to quickly locate material most interesting to them. And like the previous edition, each chapter concludes with a real-world case study enabling readers to put their new-found knowledge to the test.

# **What's Really New**

Beyond important structural changes and a clear focus on business users and IT professional, this latest edition of *Teach Yourself SAP in 24 Hours* includes much new content such as:

- ▶ Updates related to new products, capabilities, and terminology
- ► Coverage of hot technologies like Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS)
- ► An hour dedicated to cloud computing both from SAP's point of view and from the view of many SAP infrastructure partners and hosting providers

#### Sams Teach Yourself SAP in 24 Hours

- ▶ An hour dedicated to SAP security fundamentals like roles and authorizations
- ▶ Coverage of easy access methods using SharePoint and Adobe
- ► Improved real-world SAP project implementation guidance
- ► Streamlined content related to systems management, monitoring, and tuning performed by thousands of SAP Basis professionals day in and day out
- ▶ Better and broader treatment related to career guidance
- ► An appendix containing SAP-specific acronyms and common terms

To give you a sense of how SAP businesses work with SAP at their desks every day, the book also includes real-world step-by-step instructions for running many common SAP business transactions. These are the same transactions or business processes tens of thousands of users around the world execute in the name of "running the business." Finally, I have also taken the liberty of pointing you not only to readily accessible resources on the Web but also back to previous editions of this book. My coauthors and I in the 2nd and 3rd editions, for example, provided some deep dives into areas that in hindsight were overkill for many but still hold much value even today for those of you interested in more detail. This has allowed me to eliminate some of the too-technical material in favor of greater and broader coverage aimed at true beginners.

#### **Who Should Read This Book**

This book is for people new to SAP as well as people interested in filling in some of their own SAP knowledge gaps. For example, reading SAP's perspectives on cloud computing outlined in Hour 19 or looking through some of the new underlying technologies mentioned throughout Hour 3, would probably be beneficial to even an experienced SAP professional. However, I have really focused this latest edition on new business users and technology professionals. Sure, if you're an executive or a Project Manager tasked with implementing or upgrading SAP, there's some good and easy-to-find guidance in these pages. Worst case, such a reader might go through Hours 1, 4, 5, and 15 and pass the book on to a novice business user or technical support professional. But the bulk of the material is geared toward business users and technology professionals with little to no knowledge of SAP and a desire to go beyond the introductory fluff floating across the Web.

All told, this latest edition of *Sams Teach Yourself SAP in 24 Hours* serves as an excellent way to jumpstart into SAP. From all of us at Sams, we hope you enjoy this read. More importantly, we hope this material helps gives you an opportunity to put what you've learned in the fourth edition of *Sams Teach Yourself SAP in 24 Hours* into action!

## **Conventions Used in This Book**

Each hour starts with "What You'll Learn in This Hour," which includes a brief list of bulleted points highlighting the hour's contents. A summary concluding each hour provides a brief bit of insight reflecting what you as the reader should have learned along the way.

In each hour, any text that you type will appear as bold monospace, whereas text that appears on your screen is presented in monospace type.

It will look like this to mimic the way text looks on your screen.

Finally, the following icons introduce other pertinent information used in the book:

By the Way presents interesting pieces of information related to the surrounding discussion.

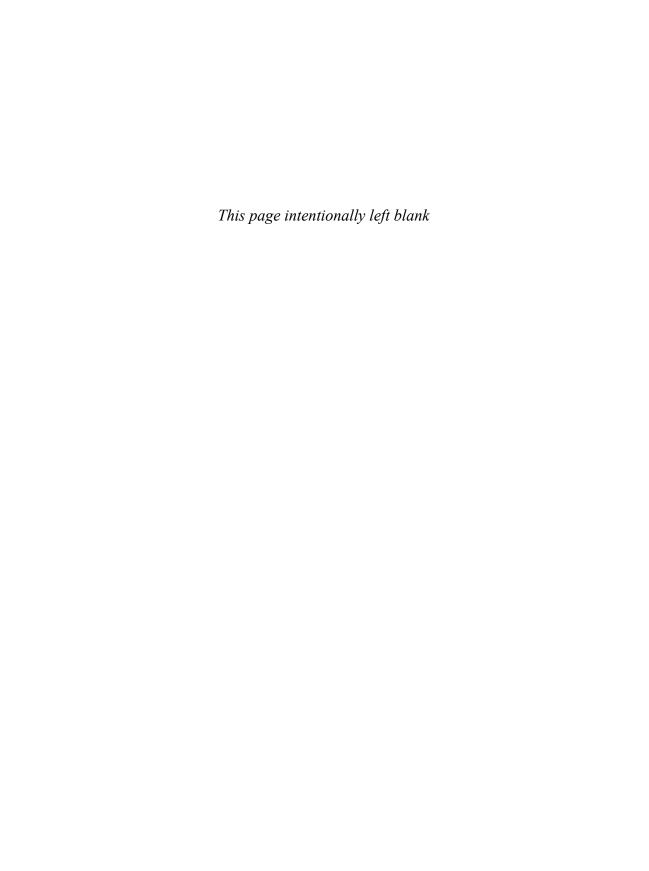
By the Way

Did You Know? offers advice or teaches an easier way to do something.

Did you Know?

Watch Out! advises you about potential problems and helps you steer clear of disaster.

Watch Out!



## HOUR 1

# **SAP Explained**

#### What You'll Learn in This Hour:

- ► An overview of the software company SAP
- ▶ SAP's business applications and industry solutions
- ► Components, modules, and transactions
- ► The SAP client concept
- What it means to run SAP

In this first hour, we set the stage by introducing the software company SAP and reviewing its history. Then we explore SAP's application legacy and unique collection of acronyms. In this way, we can begin to speak the same language. We wrap up the hour outlining SAP's current technologies and applications.

# **Overview of SAP: The Company**

A beginner's guide to SAP is incomplete without a quick look at how the company evolved to its dominant leadership position today. Headquartered in Walldorf, Germany, SAP is the largest enterprise applications provider and one of the largest software companies worldwide. Although SAP and its enterprise competitors are all distinctly different from one another, they are markedly similar as well. Most provide enterprise-class business software, business intelligence and data warehousing solutions, software for small and medium-sized businesses, platforms for web and application development, integration software to tie computer systems together, various cloud computing offerings, and so on. Each competitor helps sustain SAP, too; SAP counts Oracle as its largest database vendor, for example, and Microsoft provides SAP's most popular operating systems in both the data center and in the office. IBM is SAP's largest consulting partner, and both Microsoft and IBM provide business intelligence solutions used by SAP's applications.

SAP was founded nearly 40 years ago in Mannheim, Germany, by a group of former IBM engineers with a singular vision: to develop a software package that married a company's diverse business functions together. The idea was to help companies replace 10 or 15 different business applications—such as financial systems (running accounts payables and receivables), warehousing applications, production planning solutions, plant maintenance systems, and so on—with a single integrated system. Even better, these former IBMers wanted to create a system that embodied all the best practices that various types of businesses and industries had to offer. In the process, it was envisioned that this new software package would minimize a great deal of complexity and provide businesses with more real-time computing capabilities. This vision became real when *Systems, Applications, and Products in Data Processing* (SAP), or in German *Systemanalyse und Programmentwicklung*, opened its doors in 1972. Those of us working in the SAP ecosystem have long referred to the company and its products interchangeably using a single word best spelled out as *S-A-P* (ess aye pea), not sap.

SAP's goal from day one was to change the world, and the company continues to deliver on that goal today. Beyond their initial vision, the company's leaders created a multi-lingual and multinational platform capable of easily changing to accommodate new business process standards and techniques. Today, SAP is used by more than a million business users working for more than 100,000 customers across 120 countries. Its 50,000 employees and 2,000 SAP implementation and support partners are busy building and implementing software in 40 different languages and 50 currencies. Finally, all of these SAP business solutions are running on more than 20 different kinds of computing platforms.

To this last point, SAP revolutionized the technology foundation for enterprise applications. They purposefully broke away from the monolithic mainframe-based technology models prevalent in business applications in the 1960s and 1970s. Instead, SAP architected its software solutions to run on a variety of different hardware platforms, operating systems, and database releases. Through this flexibility and openness, SAP in turn gave its customers flexibility and choice. Such a revolutionary departure from the norm created a tipping point in enterprise business software development and delivery that helped propel SAP to the forefront of IT and business circles by the early 1990s. In less than 20 years after they opened their doors, SAP was not only Europe's top software vendor but was giving IBM and others a serious challenge in the enterprise marketplace.

New entrants to the enterprise software field also grew popular during the 1990s, including Baan, Oracle Corporation, PeopleSoft, and JD Edwards. Soon afterward, smaller players began gaining ground, as well, including Great Plains and Navision. Although still widespread, mainframe applications had simply grown too burdensome and expensive for many firms, and the enterprise software industry jumped at the chance to replace those aging legacy systems. IT organizations in companies around the world were just as anxious, finding it easier and cheaper to support a growing number of standardized hardware platforms.

In the same way that new enterprise software companies were gaining traction, new databases from vendors such as Oracle, Sybase, and Informix offered attractive alternatives to the old mainframe IMS and DB2 offerings. And new operating systems helped create low-cost mission-critical computing platforms for these new databases and applications. By the mid-1990s, when SAP began supporting the Microsoft Windows operating system and SQL Server databases, followed soon afterward by the Linux operating system, SAP's place in the enterprise software market was firmly planted—the company's founders had completely delivered on their vision of a multinational, multilingual business solution capable of running on diverse platforms operated and maintained by equally diverse IT organizations. SAP had not only grown into a multi-billion-dollar company by that time, but had indeed succeeded in changing the world.

# **SAP Business Applications or Components**

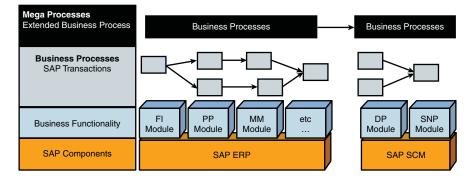
From a business applications software perspective, SAP is nearly all things to nearly all businesses. SAP's application software foundation is built on the concepts of specialization and integration. Each software component or application within the SAP family of products and services meets a particular need, facilitating day-to-day financial and resource management (SAP Enterprise Resource Planning, or ERP), addressing product lifecycle planning requirements (SAP Product Lifecycle Management, or PLM), supporting internal company procurement (SAP Supplier Relationship Management, or SRM), interconnecting different systems to ease integration headaches (SAP NetWeaver Process Integration, or SAP NetWeaver PI), enabling customer relationship management (SAP Customer Relationship Management, or CRM), and so on. Divided by SAP into the SAP Business Suite (comprising all the business applications) and SAP NetWeaver (components of which essentially enable the SAP Business Suite, like a portal product, development tools, and business intelligence tools), all of these products and more are explained in subsequent hours of this book; suffice it to say here that there are many SAP applications or components, many products, and therefore many potential SAP solutions that can be assembled and customized for most any business.

#### **SAP Components, Modules, and Transactions**

Before we get too far along, it's important to understand the differences between SAP components, modules, and transactions. SAP uses the term *components* interchangeably with the term *business application*, and most of the time this latter term is shortened to *application*. On the other hand, SAP *modules* provide specific functionality within a component. The Finance module, Production Planning module, and the Materials Management module are good self-explanatory examples. These individual SAP modules combine to create the SAP ERP component. It is within a particular module that a company's business processes are configured and put together.

Business processes are also called *business scenarios*. A good example is order-to-cash. It comprises many different *transactions*, from writing up sales orders in the system to managing purchase requisitions and purchase orders, "picking" inventory to be sold, creating a delivery, and invoicing the customer for the order. Each transaction is like a step in a process (step one, step two, and so on). When all these transactions are executed in the right order, a business process like order-to-cash is completed. Many times, these transactions are all part of the same module. In other cases, a business process might require transactions to be run in several different modules, maybe even from several different components (see Figure 1.1).

FIGURE 1.1
SAP components are made up of modules, which in turn comprise transactions used to execute business processes.



## **Cross-Application Business Processes**

The fact that SAP's transactions can be combined helps create broad and capable platforms for conducting business. In this way, SAP allows companies to obtain greater visibility into their sales, supply chain, and manufacturing trends, or to allow new methods
of entering or tracking such trends (to maximize revenue and profit) by extending business processes in several different directions. A good example again is order-to-cash,
which is essentially a "back office" accounting process. By combining multiple SAP
applications, a company can create a more capable extended version of this business
process, something called a *cross-application process*, *mega process*, or *extended*business process.

Our simple order-to-cash process can become much more powerful in this way. For example, we might initiate our process through SAP's Enterprise Portal, which allows a broad base of a company's users or even its partners and suppliers to access the company's SAP system using a simple browser. Once in the system, the user might "punch through" to SAP ERP to actually place an order. Through the business logic enabled at the business process level, control might be passed to the SAP CRM application to determine a particular customer's buying preferences or history. CRM's business logic might then direct or influence the business process in a particular way, perhaps to help the salesperson increase the customer's order size or affect the order's gross margin.

Next, SAP's Supply Chain Management (SCM) system might be accessed to revise a supply chain planning process for a set of potential orders, looking to optimize profitability as the system seeks to balance the needs of many different customers with the organization's access to materials, people, and other resources. SAP NetWeaver Business Warehouse might next be queried to pull historical data related to the customer's credit history, financial terms, and sales patterns within a particular geography or during a particular season. After these details are analyzed, the extended business process might turn control over to SAP's Crystal Solutions to create company-internal reports. Simultaneously, SAP ERP or SAP NetWeaver Portal might be used to drive and track the pick-list process, order fulfillment and shipping process, and finally the accounts receivables processes to conclude the overall business process.

## **SAP Industry Solutions**

Beyond enabling broad-based business processes, SAP is also well known for reflecting industry best practices in their software. By adopting SAP best practices rather than inventing their own, companies can more efficiently and effectively serve their customers, constituents, and other stakeholders. This is a big reason why SAP has been so successful: SAP stays abreast of many different industries, making it easy for companies in those industries to not only adopt SAP's software but that industry's best practices as well.

SAP's industry solutions were historically (and today are still loosely) divided into three areas: Manufacturing, Service Industries, and Financial/Public Services. There are actually 24 different groups of industries, such as Aerospace & Defense, Automotive, Banking, Chemicals, Consumer Products, Engineering, Construction, & Operations, Healthcare, Higher Education & Research, High Tech, Insurance, Media, Mill Products, Mining, Public Sector, Retail, Telecommunications, Utilities, and more. These groups in turn are represented by 40 specific industries. For the complete list, point your browser to www.sap.com/usa/sme/whysap/industries/index.epx or just search "SAP industry solutions" from your favorite search engine. One of the nice things about these industry solutions is that they are simply "installed" atop SAP's other products; the Oil & Gas industry solution, for example, is installed on top of SAP ERP.

#### **Connecting the Dots**

As touched on earlier, applications such as SAP ERP can be broken down into many different modules. A module's discrete functionality addresses a specific business function (which again is composed of many specific business transactions). Individually, each module is used to manage a business area or functional area for which a particular department may be responsible. Prior to extending a line of credit, for instance, a company's Accounts Receivables group may run a business transaction using the Finance module of SAP ERP to check a customer's credit and on-time payment history.

Likewise, the Shipping department will regularly run a business transaction in the Materials Management module to check inventories at a particular warehouse. Other departments may be responsible for managing payables, real estate, sales estimates, budgeting, and so on. Together, all the various departments in the company work together to do the business of the company, using SAP across the board. In this way, the company benefits from a great amount of consistency between departments while giving the company's management the high-level visibility it needs to make all the strategic decisions necessary to keep the business in good shape.

Do you see a common thread? SAP's products are used to satisfy the needs of enterprises, big and small, enabling them to tend to the business of running the business. SAP's software products are all about the "big picture"—about conducting business by connecting people, resources, and processes around the globe. SAP and its enterprise application competitors—Oracle, Microsoft, NetSuite, and several others—enable this capability on a grand scale, integrating many otherwise discrete functions under a single umbrella.

# The SAP Client Concept

We need to look at one more concept before we think about what it means to actually run SAP. In the world of SAP, the term *client* has special meaning. Clients are essentially self-contained business entities or units within each SAP system; using a web browser or one of SAP's special user interfaces, you log in to a client in SAP to actually access and use the system. Each system—SAP ERP, CRM, SCM, and so on—has a unique system-specific client you log in to. Contemporary organizations thus have multiple production clients (one production client per SAP component). And each component contains several nonproduction clients, as well. These are used to develop and test the business functionality that will one day be put into the production client and handed over to the company's end users.

A client has its own separate master records and own set of "tables" (which we cover in detail in Hour 3, "SAP Technology Basics"). The best way to grasp this might be to think about a really large company like ExxonMobil, General Motors, or Honeywell. Within each of these large multinational organizations, for example, you might have three or more other companies or business units. Each SAP client might be tied to a different business unit; really big companies might have two or even three production clients for a single SAP component like ERP. For example, the company might structure its clients around discrete business groups (Chevrolet, Cadillac, and GMC) or by geography (Americas, Europe, and Asia). In this way, a Chevrolet business user might log in to the Chevy client to do her work, whereas business users over at Cadillac log in to the Caddy client on the same SAP system and do their work. In the end, the results can be easily rolled up so that the multinational organization as a whole can easily report on its cross-company financial status, inventory levels, and so on.

When you go to log in to SAP, you choose the specific client you want to log in to. Each one is assigned a unique three-digit number, which you are required to know and type in at login time. This makes it easy to distinguish between clients. A programmer developing the SAP system might log in to client 100 to do some programming, client 200 in another system to review and test new business logic, and client 500 in yet another system to check out the new training system where his code is being used to teach others how to use SAP. In the same way, an end user might log in to client 300 in the production system to do his day-to-day work and occasionally client 200 in a test system to check on the status of new functionality he requested be developed for production.

So just remember this: In the SAP world, the term *client* can mean several things, including an individual PC or workstation. For our purposes here, however, we try to use client in the manner used by SAP—to describe a logically discrete or separate business entity within an SAP system—and try to avoid using this term to describe PCs or workstations.

# **Running SAP**

What does it mean to "run SAP?" Historically, to run SAP meant that the SAP application R/3 was installed and used by business users. For years, the SAP R/3 application was synonymous with SAP. They were one and the same, and to say you ran SAP was the same thing as saying you ran R/3. R/3 was SAP's first true client/server-based *online transaction processing* (OLTP) system—a system that by its very nature satisfied day-to-day transactional needs like you've read about this hour. Like its mainframe predecessor R/2, within R/3 was a number of business modules, such as Finance, Logistics, Human Resource Management, Warehouse Management, and more. SAP ERP is the successor to R/3.

So today when you hear people say they are running SAP, be sure to ask them what that really means in their specific case—with so many different products and solutions out there bearing the SAP label, it's not a good idea to assume anything. Sure, SAP's most popular product remains ERP. However, a lot of older SAP R/3 systems are still running, and even more SAP SCM, CRM, PLM, and SRM systems are out there.

# **Summary**

This hour introduced you to the world of SAP. You gained an understanding of SAP's history and some of the specific business application and technology terms used in the world of SAP. (Until you become more comfortable with SAP's vernacular, feel free to turn to Appendix B, "SAP Acronyms and Common Terms," for quick reminders). When all is said and done, remember that the real work done by SAP is done by its components or applications; this has little to do with technology, but rather involves business

processes that have been specifically configured for a company. Business processes are often industry-unique. Fortunately, SAP's large number of industry solutions helps companies implement industry best practices. Also keep in mind that business processes are nothing more than individual SAP business transactions strung together to get the actual work done of running a business. Transactions are associated with specific modules, but business processes may consist of transactions from different modules. Cross-application or mega business processes consist of transactions spanning multiple modules and even multiple SAP components. We are now ready to turn our attention in Hour 2, "SAP Business Basics," to the core business fundamentals behind SAP. First, though, let's take a look at the following case study.

# **Case Study: Hour 1**

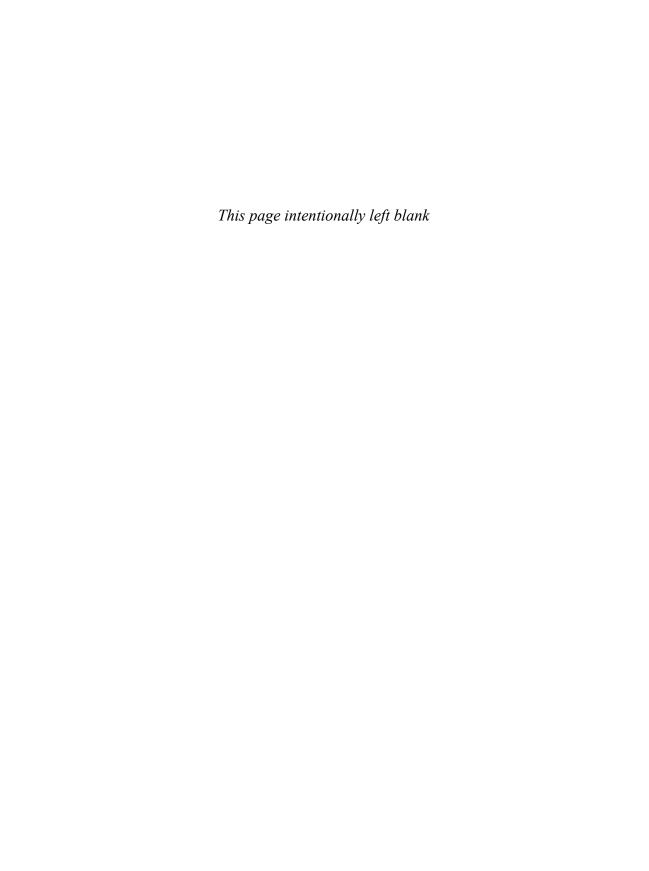
This case study winds its way through each hour and is designed to help you review and synthesize what you have learned and to help you to think ahead as you seek to put your knowledge into practice. You can find the answers posed by the questions related to this case study in Appendix A, "Case Study Answers."

## **Situation**

MNC Inc., or simply MNC, is a large multinational mining and manufacturing company with operations in 20 countries. Its customers are located around the world. Although MNC is a fictional amalgamation of many real-world companies that use SAP, the challenges it faces are relevant to those faced by contemporary organizations today. Ongoing financial transparency issues, lack of supply chain visibility, and recent concerns with falling worldwide sales and lost market opportunities have re-emphasized to the MNC executive board its need to replace its collection of old business systems with a single well-integrated business application. The board is particularly concerned with the firm's requirement to address multiple languages and currencies; with 100,000 Microsoft Windows-based users spread out across 500 different offices and other sites, the board is also concerned with how it can possibly connect its diverse user community to a single application. By walking the board through the following questions, your task is to help the MNC leadership team understand SAP's capabilities and how the firm should proceed.

## **Questions**

- 1. Outside of SAP, which enterprise software companies should MNC also consider investigating?
- 2. Which SAP components or products would the board be most interested in first learning about?
- 3. Does SAP offer an industry solution that might prove especially useful to MNC? Explain.
- **4.** Given the great number of employees (and therefore potential SAP end users) that MNC employs, what are some key technology infrastructure considerations the board should address early on?
- 5. Will language and currency support issues be a problem for SAP?



# Index

## **Symbols**

%pc, downloading data, 196

#### A

ABAP (Advanced Business
Application Programming)
WebAS (Web Application
Server), 71, 244-245
architecture, 234
SAP authorizations, 152-153
sizing, 234
ABAP List Processing, 176
ABAP Query, 176. See also SAP
Query
ABAP stacks, system logs, 303
Accelerated SAP. See ASAP
(Accelerated SAP)
access process, 48

238-239 accessing SAP, 47 access process, 48 with SAPGUI or fat client, 47 with web browsers, 47-48 accounts, managing with SAPGUI, 170 Active Directory (AD), integrating with SAP, 213-212 activity-based costing, 90 Actual End Date field, Status Information, 255 Actual Start Date field, Status Information, 255 Actual Work Days field, Status Information, 255 AD (Active Directory), integrating with SAP, 213-212 Ad Hoc Query, 181 reporting tools, 176 adaptability, BBD (Business

ByDesign), 62

access strategies, end-users,

#### administering SAP

#### administering SAP, 301 architecture, 233-234 authorization profiles, SAP authorizations, 151-152 displaying logs and traces, ABAP (Advanced Business 304-305 Application Programming) **Automatic Tabbing** WebAS (Web Application (AutoTAB), 163 monitoring application Server), 234 servers (SM51), 302 disaster recoverability, reviewing Alert Monitor 235-236 (RZ20), 305-306 В high availability (HA), 235 reviewing system logs (SM21), 303 infrastructure, 234-235 balancing the books, business system status (SICK), 301 Java Stack, 234 processes, 49-50 workload distribution (SM50 Archiving solution, OpenText, 210 batch job management, 308 and SM66), 302-303 ASAP (Accelerated ASAP), 22, BBD (Business ByDesign), 61-62 administration, 241 216-217, 227 adaptability, 62 business blueprint, 218 Adobe, SAP Interactive Forms, features of, 62-63 211-212 final preparation, 219 functionality, 62-63 Advanced Business Application go-live and support, 220 hosting, 63 Programming (ABAP), 71 project preparation, 217-218 implementing, 62 advanced SAP queries, 189-190 realization, 218-219 SAP and clouds, 296 AL08. 312-314 run phase, 220 SAP partner challenges, 63 Alert Monitor, reviewing, 305-306 ASAP methodology, 246 best SAP solutions, selecting, 67 All-in-One, 63-64 implementation development business process features of, 65-66 phases, 246 complexity, 68 functionality, 64-66 business blueprint cost. 67 Solution Centers, 65 phase, 247 features of, 67 user experience, 66 configuration phase, 247 functionality, 67 AMD, server hardware project preparation, hosted versus on-premises, vendors, 33 246-247 67-68 Americas' SAP Users' Group Run SAP roadmaps, 248 number of employees, 68 (ASUG), 355-356 testing, final preparation, BI (Business Intelligence), 82 APO, 105-106 go-live, 247-248 **BPM (Business Process** application server load, 312-314 assembling project teams, Management), 77-78 222-224 application servers (SM51), BSPs (Business Server Pages), monitoring, 302 assigning InfoSets to query 205-206 groups, 187 application toolbar, SAPGUI user buffers, 314 interface, 131-132 ASUG (Americas' SAP Users

Group), 355-356

#### cloud computing

building blocks, NetWeaver, 79
clients, 80-81
standalone engines, 80
systems with usage types, 80
business acceptance testing,
123-124
business agility, 20-21

Business All-in-One, 65
business architecture, 17-18
business blueprint phase,
implementation development
phases (ASAP methodology), 247
business blueprinting, 21-22
Business ByDesign. See BBD

business communications management, CRM (Customer Relationship Management), 56

business concerns, 19
Business Intelligence (BI), 82
Business One, 59-60

development of, 61 features of, 60-61 functionality, 60 implementing, 61 SDK (software development

kit). See SDK (software development kit)

#### business perspectives

combining, 26
functional perspective, 24
project implementation
perspective, 25-26
stakeholders, 23
support from SAP
technologies, 22-23
technical perspective, 25

business process complexity, selecting best SAP solutions, 68 Business Process Management, SAP NetWeaver, 58

#### business processes

balancing the books, 49-50 cross-application business processes, 10-11 performing employee self-service functions, 49 selling from stock, 50-51

business professionals. See SAP business professionals

business roadmaps, 17-18 business scenarios, 10

Business Server Pages. See BSPs (Business Server Pages)

Business Suite versus SME, 68-69

business teams, 45 business transactions, posting in  $\mbox{\sc A/P}$  (SAPGUI), 171

#### business users

functional configuration specialists, 119 power users, 119-120 role of, 117-118 row leaders, 118-119

Business Warehouse (BW), 82 BW Expert, 358

#### C

calculated fields, 190
canceling all data entered on a
screen, 137-138
CAPEX (capital expenditures), 31

capital expenditures (CAPEX), 31 career opportunities, 363

ITtoolbox, 364 SAP-Resources.com, 363-364 Softwarejobs.com, 364

#### careers

business professionals. See SAP business professionals IT professionals.

See IT professionals cash management, 91

change management, 337 changing sales orders, SAPGUI, 170

check boxes, screen objects, 141-142

clients, 12-13

NetWeaver, 80-81

client/server architectures, cloud computing, 288-289

Clipboard, 143

copying unselectable data, 144

moving and copying data, 144

Clipboard selection, Customizing button, 165-166

cloud computing, 282

history of, 287-288 client/server architectures, 288-289

#### cloud computing

scalability, 295

Enterprise SOA, 290-291 Color Settings tab, Customizing cost, selecting best SAP button, 165 solutions, 67 SOA (service-oriented architecture), 289-290 combining business cost accounting, 89-90 perspectives, 26 Web Application Server cost reduction, 19-20 (WebAS), 289 communications planning, PMO cover sheets, Spool Request (project management office), laaS (Infrastructure of a Attributes, 169 222 Service), 284 **CRM (Customer Relationship** company overview, 7-9 PaaS (Platforms for Service), Management), 9-10, 55-56, 106 283-284 components, 9-10 extending ERP, 106-107 SaaS (Software as a Service), SAP NetWeaver, 57-58 industry-specific processes, 283 composition, NetWeaver, 58, 77 107-108 cloud service providers, 284 CRM Expert, 359 Composition Environment, hosted private clouds, 285 NetWeaver, 245 cross-application business hybrid clouds, 286-287 conferences. See SAP conferences processes, 10-11 internal private clouds, 285 configuration phase cursor position, Cursor tab (Local Layout button), 163 public clouds, 286 implementation development phases, ASAP Cursor tab, Local Layout button, cloud services, SAP and clouds, methodology, 247 162-163 295 Implementation Guide (IMG), cursor width, Cursor tab (Local cloud storage, 34-35 248-249 Layout button), 163 clouds, 279-280 configuration specialists, 119 **Customer Relationship** application holdouts, Management. See CRM configuration teams, 45 281-282 (Customer Relationship configuring SAP Logon Pad, benefits of, 280 Management) 127-128 first-mover cloud applications, Customizing button, 164 content management, 349 280-281 Clipboard selection, 165-166 Contextual Workflow, Duet SAP. 295 Color Settings tab, 165 Enterprise, 209 bridging old and new Font selection, 166 contingency plans, 20 worlds, 296 General tab, 165 PMO (project management Business ByDesign, 296 office), 222 customizing Local Layout button, cloud services, 295 159-160 Controlling module, SAP ERP future of, 298-299 Financials, 89-90 Cursor tab, 162-163 hosting nonproduction Local Data tab, 163-164 copying systems in clouds, data on Clipboard, 144 Options tab. 160-162 297-298 unselectable data to Trace tab, 164 real-world cloud scenarios. Clipboard, 144 296-297

#### end-users, access strategies

deleting data that is held or set D on screens, 139-140 **Demand Planning application** data (APO), 106 copying on Clipboard, 144 desktop applications, integration, deleting (that is held or set 195-196 on screens), 139-140 developers, IT professionals, editing in input fields, 136 349-350 exporting SAP data to development of Business One, 61 Microsoft Excel, 197 development teams, 45 moving, Clipboard, 144 dialog boxes, screen objects, replicating, 138-140 142-143 saving on screens, 138 direct-attached storage, 34 security considerations, disaster recoverability, 235-236 237-238 disk storage systems, 34 data archiving, OpenText, 210 disk subsystem requirements, data teams, 46 infrastructure review, 260 database basics, 39 disk subsystems, security indexes, 40-41 considerations, 237 primers, 40 display fields, 140 structures, 40-41 displaying tables, 40-41 goods movements with database management, 307-308 SAPGUI, 171 database primers, 40 logs, 304-305 database server software traces, 304-305 installation **Document Access for SAP** Microsoft SQL Server, Solutions, OpenText, 210-211 262-263 documentation, IMG Oracle, 263 (Implementation Guide), databases, security 252-253 considerations, 237-238 downloadable media, installation, datacenter teams, 240 260-261 DB02, 307-308 downloading, data with %pc, 196 DBA (database administrator), 40 Duet. 207-208 DBA Cockpit, 307-308 Duet Enterprise, 208

default values, printing from SAP,

169-170

Duet Reporting, 209
Enterprise Collaboration, 208
Federated Search, 209
Duet Profile, Duet Enterprise, 209
Duet Reporting, Duet
Enterprise, 209
DVDs, installation, 260-261

#### Ε

ECC (ERP Central Component), 73 editing data in input fields, 136 education, SAP business professionals, 338-339 EHPs. 319 EHS (environmental health and safety (EHS), 96 **EIS** (Executive Information System), reporting tools, 176-177 Employee Self-Service. See ESS employee self-service functions, performing, 49 Employee tab, Status Information, 255 employment ITtoolbox, 364 SAP-Resources.com, 363-364 Softwarejobs.com, 364 ending sessions, 130 end-users, access strategies, 238-239

Contextual Workflow, 209

Duet Profile, 209

#### enhancements

Excel. 197

SAP Query reports to

Microsoft Excel, 204

enhancements, 318-319 Extended ECM for SAP solutions, first-mover cloud applications, OpenText, 211 cloud, 280-281 project planning, 323-324 extending, ERP (Enterprise Font selection, Customizing **Enterprise Collaboration, Duet** Resource Planning), with CRM, button, 166 Enterprise, 208 106-107 form letters, creating in Microsoft Enterprise Controlling module, Word, 198-199, 204 SAP ERP Financials, 90 foundation management, Enterprise IMG, 250 NetWeaver, 73-74 Enterprise Resource Planning. Foundation Management, SAP See SAP ERP NetWeaver, 58 **Enterprise SOA** fat client, accessing SAP, 47 **FSCM** (Financial Supply Chain cloud computing, 290-291 Federated Search, 209 Management), SAP ERP principles of, 291-292 field entry validation, 137 Financials, 92 environmental health and safety fields, 132-133 functional areas. See InfoSets. (EHS), 96 calculated fields, 190 functional E-Recruiting, 95 display fields, 140 perspective, 24 **ERP** (Enterprise Resource input fields, 134-136 functional project management, Planning). See SAP ERP editing data, 136 335 **ESS (SAP Employee** required, 136-138 functional row leaders, 118 Self-Service), 93 Insert mode, 134 functionality ethics, SAP business Overwrite mode, 134 All-in-One, 64, 65-66 professionals, 340-341 replicating data, 138-140 BBD (Business ByDesign), executing reports, General Report 62-63 status fields, System Selection, 177-178 Information icon, 166-167 selecting best SAP **Executive Information System** solutions, 67 file systems, OS (operating (EIS), reporting tools, 176-177 systems), 37-38 funds management, 91 executive steering committee, 224-225 final preparation, implementation development phases, ASAP exporting methodology, 247-248 lists G Financial and Managerial to Microsoft Access. Accounting module, SAP ERP 204-205 General Properties, Spool Financials, 88-89 to Microsoft Excel, Request Attributes, 168 **Financial Supply Chain** 203-204 **General Report Selection** Management. See FSCM SAP data to Microsoft executing reports, 177-178

(Financial Supply Chain

Management)

Financials Expert, 358

lists, 181

178-179

searching for reports,

### implementation basics

selection screens, 179 SAPS (SAP Application HR Expert, 359 Performance Standard), variants, 179 HTML, SAPGUI, 158-159 32-33 modifying, 179-180 hybrid clouds, 286-287 server availability General Selection Tree, searching features, 33 for reports, 178-179 server hardware General tab, Customizing vendors, 33 button, 165 storage area networks, 34 global query areas, 184-185 laaS (Infrastructure of a Service), storage system Global Trade Services, See GTS availability, 35-36 (Global Trade Services) cloud computing, 284 storage system GlobalSAP, 227 SAP, 294-295 performance, 35 go-live phase, implementation IBM, server hardware vendors, 33 **HCM** (Human Capital development phases (ASAP Management), 92-94 IMG (Implementation Guide) methodology), 247-248 PA module, 94-96 configuration phase, 248-249 goods movements documentation, 252-253 help, IMG (Implementation displaying with SAPGUI, 171 Guide), 252 Enterprise IMG, 250 posting for materials, high availability (HA), help, 252 SAPGUI. 171-172 architecture, 235 Project IMG, 250 GRC (Governance, Risk, and history Compliance), SAP ERP Reference IMG, 250 of cloud computing, 287-288 Financials, 88 Release Notes, 255 client/server architec-GTS (Global Trade Services), 99 Solution Manager, 251 tures, 288-289 SAP ERP Financials, 91-92 Status Information, 253-255 Enterprise SOA, 290-291 **Upgrade Customizing** SOA (service-oriented IMGs, 251 architecture), 289-290 implementation basics, 43-44 Н Web Application Server business teams, 45 (WebAS), 289 configuration teams, 45 HA (high availability), 235 of NetWeaver, 71-73 data teams, 46 hardware, 30-31 Hold Data, 138 development teams, 45 servers, 31-32 hosted private clouds, 285 integration teams, 45 cloud storage, 34-35

hosted versus on-premises, 67-68

nonproduction systems in

clouds, 297-298 site readiness, 236

BBD (Business ByDesign), 63

hosting

direct-attached storage, 34

disk storage systems, 34

network-attached

storage, 34

other teams, 46

security teams, 46

technical teams, 46

test/QA teams, 45

implementation development

# implementation development phases, ASAP methodology

phases, ASAP methodology	editing data, 136	acquiring, downloading,
business blueprint	required, 136-138	extracting, 270-271
phase, 247	Insert mode, fields, 134	preparing for installation,
configuration phase, 247	InsiderPROFILES Magazine,	269-270
project preparation, 246-247	357-358	installing Master Guides, 232-233
Run SAP roadmaps, 248	installation	integrating
testing, final preparation, go-live, 247-248	database server software installation	Microsoft Directory with SAP, 212
Implementation Guide (IMG). See	Microsoft SQL Server,	SAP with SharePoint, 205
IMG (Implementation Guide)	262-263	SAP with SharePoint 2007,
implementing	Oracle, 263	205-207
BBD (Business ByDesign), 62	DVDs and downloadable	SAP with SharePoint
Business One, 61	media, 260-261	2010, 207
importing SAP into Microsoft	infrastructure, 259	integration
Access, 200-201	SAP infrastructure review,	SAP integration with desktop
indexes, database basics, 40-41	259–260	applications, 195-196
industry solutions, 11	operating system installation,	SRM-to-PLM, benefits, 111
industry-specific processes, CRM	261-262	integration teams, 45
(Customer Relationship	overview, 257-258	Intel, server hardware
Management), 107-108	planning, 258-259	vendors, 33
information management,	post-installation tasks,	Interaction Center (IC)
NetWeaver, 76		management assumes the ODM
notification, 10	268-269	management support, CRM
Information Management, SAP	268-269 prerequisite checklist, 262	(Customer Relationship
,		(Customer Relationship Management), 55
Information Management, SAP	prerequisite checklist, 262	(Customer Relationship Management), 55 internal private clouds, 285
Information Management, SAP NetWeaver, 58	prerequisite checklist, 262 SAP software	(Customer Relationship Management), 55 internal private clouds, 285 IT professionals
Information Management, SAP NetWeaver, 58 InfoSet Query, 190-191	prerequisite checklist, 262 SAP software installation, 263	(Customer Relationship Management), 55 internal private clouds, 285 IT professionals developers, 349-350
Information Management, SAP NetWeaver, 58 InfoSet Query, 190-191 creating, 191	prerequisite checklist, 262 SAP software installation, 263 SAP Central Instance,	(Customer Relationship Management), 55 internal private clouds, 285 IT professionals
Information Management, SAP NetWeaver, 58 InfoSet Query, 190-191 creating, 191 InfoSets, 183	prerequisite checklist, 262 SAP software installation, 263 SAP Central Instance, 267-268 SAP Central Services Instance for ABAP	(Customer Relationship Management), 55 internal private clouds, 285 IT professionals developers, 349-350 jobs with SAP, 343-344 jobs with SAP customers,
Information Management, SAP NetWeaver, 58 InfoSet Query, 190-191 creating, 191 InfoSets, 183 assigning to query	prerequisite checklist, 262 SAP software installation, 263 SAP Central Instance, 267-268 SAP Central Services Instance for ABAP (ASCS) installation, 264	(Customer Relationship Management), 55 internal private clouds, 285 IT professionals developers, 349-350 jobs with SAP, 343-344
Information Management, SAP NetWeaver, 58 InfoSet Query, 190-191 creating, 191 InfoSets, 183 assigning to query groups, 187	prerequisite checklist, 262 SAP software installation, 263 SAP Central Instance, 267-268 SAP Central Services Instance for ABAP (ASCS) installation, 264 SAP Central Services	(Customer Relationship Management), 55 internal private clouds, 285 IT professionals developers, 349-350 jobs with SAP, 343-344 jobs with SAP customers,
Information Management, SAP NetWeaver, 58 InfoSet Query, 190-191 creating, 191 InfoSets, 183 assigning to query groups, 187 creating new, 185-186	prerequisite checklist, 262 SAP software installation, 263 SAP Central Instance, 267-268 SAP Central Services Instance for ABAP (ASCS) installation, 264	(Customer Relationship Management), 55 internal private clouds, 285 IT professionals developers, 349-350 jobs with SAP, 343-344 jobs with SAP customers, 344-345
Information Management, SAP NetWeaver, 58 InfoSet Query, 190-191 creating, 191 InfoSets, 183 assigning to query groups, 187 creating new, 185-186 infrastructure, installation, 259 SAP infrastructure review,	prerequisite checklist, 262 SAP software installation, 263 SAP Central Instance, 267-268 SAP Central Services Instance for ABAP (ASCS) installation, 264 SAP Central Services Instance (SCS) installation, 264-265 SAP Database Instance,	(Customer Relationship Management), 55 internal private clouds, 285 IT professionals developers, 349-350 jobs with SAP, 343-344 jobs with SAP customers, 344-345 jobs with SAP partners, 344 platform administrators,
Information Management, SAP NetWeaver, 58 InfoSet Query, 190-191 creating, 191 InfoSets, 183 assigning to query groups, 187 creating new, 185-186 infrastructure, installation, 259 SAP infrastructure review, 259-260	prerequisite checklist, 262 SAP software installation, 263 SAP Central Instance, 267-268 SAP Central Services Instance for ABAP (ASCS) installation, 264 SAP Central Services Instance (SCS) installation, 264-265	(Customer Relationship Management), 55 internal private clouds, 285 IT professionals developers, 349-350 jobs with SAP, 343-344 jobs with SAP customers, 344-345 jobs with SAP partners, 344 platform administrators, 348-349

laaS See input fields, 134-136 SAP trial version, 272-275

### menu paths, performing tasks

leveraging existing K business experience, 347-348 keyboards, navigation, 132 management, 241 leveraging existing managing technical expertise, 348 accounts with SAPGUI, 170 right where you are, 347 risk, 20 L programmers, 349-350 SAP technical positions, 345-346 application server load, landscapes, SAP, 233 technical project manage-312-314 language, logging on to access ment, 346 batch job management, 308 SAP. 129 testers, 346 database management, Linux RPM, 262 trainers, 346 307-308 lists working on intangibles, 350 print management exporting IT project management office (SPAD), 308 to Microsoft Access. (PMO), 240 SAP application server 204-205 ITtoolbox, employment, 364 buffers, 314 to Microsoft Excel, iViews. NetWeaver Portal. SAP Computing Platform 203-204 206-207 (ST06), 311-312 General Report Selection, 181 workload/performance load testing, 124 management, 309-311 Local Data tab, Local Layout Managing Your SAP Projects, 362 button, 163-164 market risk management, 91 Local Layout button, customizing, marketing support, CRM Java, programming tools, 245 159-160 (Customer Relationship Java application servers, user Cursor tab, 162-163 Management), 55 authorizations, 153 Local Data tab, 163-164 master data row leaders, Java Stack Options tab, 160-162 118-119 architecture, 234 Trace tab, 164 Master Guides, installing, sizing, 234 logging off of SAP, 130 232-233 Java stacks, system logs, 303 logging on to access SAP, 127 matching and prototyping, project JavaGUI, 158 clients, user IDs and lifecycle, 122 jobs, looking for, 330 language, 129 Materials Management module, configuring SAP logon pad, SAP ERP Operations, 97-98 127-128 Mendocino, 207-208 sessions, 129-130 menu paths, performing

tasks, 132

creating, 130

ending, 130 logs, displaying, 304-305

### Messages, Options tab, Local Layout button

Messages, Options tab, Local Layout button, 161-162 Microsoft Access exporting lists to, 204-205 importing SAP, 200-201 Report Wizard, 201-203 Microsoft Duet, 207-208 Microsoft Excel exporting lists to, 203-204 SAP Query reports, 204 importing SAP data to Microsoft Excel, 197 Microsoft SharePoint 2007. integrating with SAP, 205-207 Microsoft SharePoint 2010, 207 integrating with SAP, 205 Microsoft Silverlight, 207 Microsoft SQL Server, database server software installation. 262-263 Microsoft Word creating SAP form letters, 198-199 form letters, 204 Middleware, NetWeaver, 74-75 middleware, SAP NetWeaver, 58 migrations OS/DB migrations (operating system/database migrations), 321-322

versus upgrades, 320-321

modifying variants, General

Report Selection, 179-180

mitigating risk, 20

modules, 9 -12

monitoring application servers (SM51), 302 MOSS (Microsoft Office SharePoint Server), 208 mouse, navigation, 132 moving data, Clipboard, 144

# N

### navigation

with mouse and
keyboard, 132
performing tasks with menu
paths, 132
stopping transactions, 132
NetWeaver, 71
benefits of 78-79

benefits of, 78-79
BPM (Business Process
Management), 77-78
building blocks, 79
clients, 80-81
standalone engines, 80
systems with usage
types, 80
composition, 77
foundation management, 73-74
history of, 71-73
information management, 76
Middleware, 74-75
team productivity, 76-77
etWeaver Composition

NetWeaver Composition Environment, 245 NetWeaver Developer Studio, 245 network infrastructure, 259 network-attached storage, 34 networking, SAP business professionals, 338 networks

infrastructure review, 260 security considerations, 236-237

nonproduction systems, hosting in clouds, 297-298 number of employees, selecting best SAP solutions, 68 NWDS (NetWeaver Developer Studio), 245

## 0

processing) systems, 85 online resources, 354-355 SAP Fans, 360 SAP FAQ, 360 SAP ITtoolbox, 359-360 SearchSAP.com, 360-361 TechTarget, 360-361

**OLTP** (online transaction

Online Service System (OSS), 324 on-premises versus hosted, 67-68 OpenText

Archiving solution, 210
data archiving, 210
Document Access for SAP
Solutions, 211
Extended ECM for SAP
solutions, 211
exacting system installation

operating system installation, 261-262

Operating System Monitor, 311-312

operating systems (OS). See OS (operating systems.

operational expenditures (OPEX), 31

operational stabilization (run), 125

operations, 241

OPEX (operational expenditures), 31

Options tab, Local Layout button, 160-162

Oracle, database server software installation, 263

organizational management, PA module (SAP ERP HCM), 95

OS (operating systems), 36-37

features of, 37

SAP file systems, 37-38

security considerations, 237

OS-based work processes, 38

OS/DB migrations (operating system/database migrations), 321-322

OS-level profiles, 39

OSS (Online Service System), 324

output options, Spool Request

Attributes, 169

overall SAP project manager, 226

overhead cost controlling, 90

Overwrite mode, fields, 134

P

PA (Personnel Administration), 94

PA module, SAP ERP HCM (Human Capital Management),

94-96

PaaS (Platforms for Service)

cloud computing, 283-284

SAP, 293

partner challenges, BBD (Business ByDesign) and

SAP, 63

partner channel management,

CRM (Customer Relationship Management), 55-56

management), 55-50

PD (Personnel Planning and development), 94

Percent Complete field, Status

Information, 254

performing

employee self-service functions. 49

tasks with menu paths, 132

Personnel Administration, 94

Personnel Planning and

Development (PD), 94

Plan Start Date field, Status

Information, 254

Plan Work Days field, Status

Information, 254

planning installation, 258-259

Plant Maintenance module, 98

platform administrators, 348-349

Platforms for Service (PaaS),

cloud computing, 283-284

PLM (Product Lifecycle Management), 9, 56

> benefits and impact of, 108-109

using, 109-110

PMI (Project Management

Institute), 346

PMO (project management office), 220-221

communications

planning, 222

quality planning, 222

risk and contingency planning, 222

scheduling, 221

scope management, 221

post-installation tasks, 268-269

power users, 119-120

PREPARE, 325

prerequisite checklist,

installation, 262

presentation, SAP business

professionals, 339-340

presentation layer, 127

print management (SPAD), 308

printing from SAP, 167

default values, 169-170

SAP Print Screen List, 167

Spool Request Attributes,

167-169

product cost controlling, 90

Product Lifecycle

Management, 56

Production Planning and Control module, SAP ERP Operations, 97

project board, 224-225

project implementation

perspective, 25-26 project initiation, 121-122

Project IMG, 250

project closeout, 227-228

### Production Planning application (APO)

**Production Planning application** project leadership, 224 Q (APO), 106 executive steering committee, professional resources, 353-354 224-225 QA (quality assurance), 222 Americas' SAP Users' Group overall SAP project QC (quality control), 222 (ASUG), 355-356 manager, 226 Quality Management module, books, 358 project sponsors, 225-226 SAP ERP Corporate Services, InsiderPROFILES Magazine, 99-100 project lifecycle, 120-121 357-358 business acceptance testing, quality planning, PMO (project newsletters, 358-359 123-124 management office), 222 online resources, 354-355 design and construction, query groups, 182-183 122-123 SAP Professional Journal, assigning InfoSets to, 187 356-357 matching and prototyping, 122 query reporting tools, 181-182 SAPinsider, 357 operational stabilization administrative decisions. (run), 125 profiles, OS-level profiles, 39 183-185 preparation for production InfoSets, 183 profitability analysis, 90 cut-over. 124-125 program management, 335 query groups, 182-183 project initiation, 121-122 programmers, IT professionals, Quick Info, Options tab, Local SIT (system integration 349-350 Layout button, 161 testing), 123 programming tools, 243-244 QuickViewer, 191 **Project Management Institute** ABAP (Advanced Business creating, 192 (PMI), 346 Application Programming), project management office. 244-245 See PMO Java. 245 R project planning, 322-323 **NetWeaver Composition** for enhancements, 323-324 Environment, 245 R/3, 13 upgrades, 324-326 NWDS (NetWeaver Developer radio buttons, screen objects, 142 Studio), 245 project preparation, implementa-**RAID 0, 36** tion development phases SE80, 244-245 (ASAP methodology), 246-247 **RAID 1, 36 Project and Portfolio** project sponsors, 225-226 **RAID 5, 36** Management module, SAP ERP **RAID 10, 36** Corporate Services, 100 project teams, assembling, 222-224

public clouds, 286

(APO), 106

**Purchasing Planning application** 

RDBMS (relational database

management system), 40

module, SAP ERP Corporate

Real Estate Management

Services, 99

real-time offer management, risk monitoring application **CRM** (Customer Relationship servers (SM51), 302 managing, 20 Management), 56 reviewing Alert Monitor mitigating, 20 real-world cloud scenarios, (RZ20), 305-306 PMO (project management 296-297 reviewing system logs office), 222 red swap screen, 314 (SM21), 303 roles, security, 149-150 Reference IMG, 250 system status (SICK), 301 row leaders, 118-119 regulatory compliance, 114 workload distribution **Run SAP. 125** (SM50 and SM66), Release Notes, IMG Run SAP roadmaps, implementa-302-303 (Implementation Guide), 255 tion development phases (ASAP clouds, 295 Remaining Work Days field, methodology), 248 Status Information, 255 bridging old and new RZ20, 305-306 worlds, 296 replicating data, 138-140 Business ByDesign, 296 Report Wizard, Microsoft Access, cloud services, 295 201-203 S future of, 298-299 reporting tools, 175 ABAP List Processing, 176 hosting nonproduction SaaS (Software as a Service) systems in clouds, ABAP Ouerv. 176 cloud computing, 283 297-298 Ad Hoc Query, 176 SAP 292-293 real-world cloud scenarios. **Executive Information System** 296-297 Sales and Distribution module, 98 (EIS), 176-177 sales support, CRM (Customer scalability, 295 SAP Information System, 177 Relationship Management), 55 defined, 2 Structural Graphics, 176 SAML (Security Assertion Markup difficulties with reports, executing General Report Language), SAP Single Sign-On implementation, 215-216 Selection, 177-178 (SSO), 277 laaS (Infrastructure of a required input fields, 136-138 SAN/disk subsystem teams, 240 Service), 294-295 resources SAP importing into Microsoft online resources. See online Access, 200-201 accessing, 47 resources access process, 48 integrating AD (Active professional resources. Directory), 213-212 with SAPGUI or fat See professional resources client, 47 making changes to, 317-318 reviewing with web browsers, 47-48 managing Alert Monitor, 305-306 administering, 301 application server load, infrastructure, 259-260 312-314 displaying logs and traces. system logs (SM21), 303 304-305 batch job management, 308

database management,

307-308 SAP Basis layer, 71 SAP clients, logging on to access print management SAP, 129 SAP Basis professional, 235 (SPAD), 308 SAP Competency Centers, 234 SAP Business Explorer tool, 65 SAP application server SAP Computing Platform (ST06), SAP business professionals, buffers, 314 311-312 329-330 SAP Computing Platform SAP conferences, 361 business and functional (ST06), 311-312 positions, 334-335 Managing Your SAP workload/performance Projects, 362 functional project and promanagement, 309-311 SAP TechEd, 362 gram management, 335 overview of company, 7-9 functional trainers and SAPPHIRE NOW, 361-362 PaaS (Platforms for Service). testers, 335-336 WIS-sponsored, 362-363 293 looking for jobs, 330 SAP data, exporting to Microsoft real purpose and impact, right where you are, Excel. 197 19-20 330-331 SAP Database Instance, SAP SaaS (Software as a Service). at SAP, 331-332 software installation, 265-267 292-293 at SAP customers, 334 SAP Developer Network, 354 updates, 318 at SAP partners, 332-334 SAP Ecosystem, 354 user IDs, 48 preparing for business SAP enhancements, 318-319 **SAP AG, 227** careers, 336 project planning, 323-324 SAP Application Performance education, 338-339 SAP Enterprise IMG, 250 Standard, See SAPS ethics, 340-341 SAP enterprise learning, 95 (Application Performance leveraging existing SAP ERP (Enterprise Resource Standard). business experience, 337 Planning), 9, 13, 54, 85-87 SAP application server buffers, looking for work on the evolution of, 86 314 fringe, 337-338 extending with CRM, 106-107 SAP Assistant, 196 networking, 338 SAP ERP Analytics, 54 SAP authorizations, 151 presentation, 339-340 SAP ERP Central Component. ABAP (Advanced Business right where you are, 336 See ECC. Application Programming), SAP Business Server Pages, 152-153 SAP ERP Corporate Services, 205-206 authorization profiles, SAP Central Instance, SAP 151-152 Project and Portfolio software installation, 267-268 Management module, 100 user authorizations. Java SAP Central Services Instance for application servers, 153 Quality Management module, ABAP (ASCS) installation, 264 99-100 SAP Basis, 29-30, 231-232 SAP Central Services Instance Real Estate Management security considerations, 238 module, 99

staffing, 239-240

(SCS) installation, 264-265

SAP ERP Financials, 9-11, 54

Controlling module, 89-90

Enterprise Controlling module, 90

Financial and Managerial

Accounting module, 88-89 FSCM (Financial Supply Chain

Management), 92

GRC (Governance, Risk, and Compliance), 88

GTS (Global Trade Services), 91-92

Treasury Management module, 91

SAP ERP HCM (Human Capital Management), 92-94

PA module, 94-96

SAP ERP Human Capital Management, 54-69

SAP ERP Operations, 54, 96-97, 113

Materials Management module, 97-98

Plant Maintenance module, 98

Production Planning and Control module. 97

Sales and Distribution module, 98

SAP Fans, 360

SAP FAQ, 360

SAP form letters, creating in Microsoft Word, 198-199, 204

**SAP GRC GTS, 91-92** 

SAP Help Portal, 354

SAP Information Lifecycle Management, 76

SAP Information System, 177

SAP Innovations 2010, 103-104

SAP integration with desktop applications, 195-196

SAP Interactive Forms, Adobe, 211-212

SAP ITtoolbox, 359-360

SAP landscapes, 233

SAP Lean Planning and Operations, 113

SAP learning solution, 95-96

SAP Logon Pad, configuring, 127-128

SAP manufacturing, 96-97, 112-113

Materials Management module, 97-98

Plant Maintenance module, 98 Sales and Distribution

module, 98

SAP Manufacturing Integration and Intelligence, 113

SAP NetWeaver Business Process Management. See BPM

SAP NetWeaver Business Warehouse, 350

SAP NetWeaver Business
Warehouse Accelerator, 76

SAP NetWeaver Business Warehouse (BW), 76

SAP NetWeaver, components, 57-58

SAP NetWeaver Composition Environment (CE), 77

SAP NetWeaver Developer Studio, 77

SAP NetWeaver Enterprise Search (ES), 77 SAP NetWeaver Master Data Management, 76

SAP NetWeaver Master Guide, 81-82

SAP NetWeaver Mobile, 76

SAP NetWeaver Portal, 76, 206-207

SAP NetWeaver Process Integration, 9

SAP NetWeaver Visual Composer, 77

SAP Notes, 232

SAP Partner Portal, 354

SAP Print Screen List, 167

SAP process security, 149

SAP Professional Journal, 356-357

SAP Profile Generator, security, 150

SAP Project IMG, 250

SAP project manager, 226

SAP queries, 187 advanced, 189-190

creating, 187-189

SAP Query, 181

SAP Query reports, exporting to Microsoft Excel, 204

SAP R/3, 13

SAP Reference IMG, 250

SAP Service and Asset Management, 113-114

SAP Service Marketplace, 354

SAP Single Sign-On (SSO), 275

SAML (Security Assertion Markup Language), 277 SPNego, 275-277

#### SAP software installation

SAP software installation SAP Workload Monitor, 309-311 SCM Expert, 358-359 SAP Central Instance, SAP-as-a-Service, 294-295 scope management, PMO 267-268 (project management SAPGUI. 170 office), 221 SAP Central Services accessing SAP, 47 Instance for ABAP (ASCS) screen objects, 140-141 changing sales orders, 170 installation, 264 check boxes, 141-142 displaying goods SAP Central Services dialog boxes, 142-143 movements, 171 Instance (SCS) installation, radio buttons, 142 for HTML, 158-159 264-265 SAP trees, 141 for Java, 158 SAP Database Instance, table controls, 143 managing accounts, 170 265-267 screens, saving data, 138 posting business transactions system variants, 263 in A/P, 171 SDK (software development SAP SolMan, 227 kit), 61 posting goods movement for SAP Solutions for Auto-ID and materials, 171-172 SE80, 244-245 Item Serialization, 113 Tweak SAPGUI, 159 searching for reports, General **SAP Supply Chain** Selection Tree, 178-179 for Windows, 159 Management, 113 SearchSAP.com, 360-361 SAPGUI Print button, 167 SAP Support Portal, 354 security SAPGUI user interface, 127, 131 SAP TechEd, 362 data, 237-238 application toolbar, 131-132 SAP technical infrastructure databases, 237-238 standard toolbar, 131 security, 148-149 disk subsystems, 237 SAPinsider, 357 SAP Transaction Monitor. network considerations. 309-311 SAPOSCOL, 38 236-237 SAP trees, screen objects, 141 SAPPHIRE NOW, 361-362 OS (operating systems, 237 SAP trial version SAP-Resources.com, 363-364 overview, 147-148 installation, 272-275 SAPS (SAP Application SAP authorizations, 151 Performance Standard), 32-33 acquiring, downloading, authorization profiles, extracting, 270-271 **SART, 177** 151-152 preparing for installation, saving data on screens, 138 SAP Basis, 238 269-270 scalability, SAP and clouds, 295 SAP process security, 149 using, 275 SCC (Supply Chain Cockpit), 105 SAP Profile Generator, 150 SAP Upgrade Customizing scheduling PMO (project IMGs, 251 SAP roles, 149-150 management office), 221 SAP technical infrastructure SAP upgrades SCM (Supply Chain security, 148-149 project planning, 324-326 Management), 10, 56-57, 104 servers, 237 business benefits and testing, 325-326 impact, 105-106 SAP Web Services, 206

purpose of, 104-105

### **Spool Request Attributes**

Security Assertion Markup Language (SAML), 277 security teams, 46, 240 selecting best SAP solutions business process complexity, 68 cost, 67 features of, 67 functionality, 67 hosted versus on-premises, 67-68 number of employees, 68 selection screens, General Report Selection, 179 selling from stock, business processes, 50-51 server availability features, 33 server hardware vendors, 33 server infrastructure, 259 server infrastructure teams, 240

cloud storage, 34-35 direct-attached storage, 34 disk storage systems, 34 network-attached storage, 34 SAPS (SAP Application Performance Standard), 32-33 security considerations, 237 server availability features, 33 server hardware vendors, 33 storage area networks, 34 storage system availability, 35-36 storage system performance, 35

servers

service providers, clouds, 284 hosted private clouds, 285 hybrid clouds, 286-287 internal private clouds, 285 public clouds, 286 service support, CRM (Customer Relationship Management), 55 sessions, 48 logging on to access SAP. 129-130 creating sessions, 130 ending, 130 Set Data, 138 SharePoint, integrating with SAP. 205 SharePoint 2007, integrating with SAP, 205-207 SharePoint 2010, 207

SICK (system status), 301
Silverlight, 207
single points of failure.
See SPOFs
Single Sign-On (SSO), 275
SAML (Security Assertion
Markup Language), 277
SPNego, 275-277
SIT (system integration

testing), 123 site readiness, 236 sizing, 233-234 ABAP (Advanced

ABAP (Advanced Business Application Programming) WebAS (Web Application Server), 234 Java Stack, 234 SM13, 307-308
SM21, 303
SM37, 308
SM50, 302-303
SM51 (application servers), monitoring, 302
SM66, 302-303
SME (small and medium enterprise), 53, 58-59
versus Business Suite, 68-69

SM12, 307-308

SMLG, 312-314

SNP Planner (APO), 106

SOA (service-oriented architecture), cloud computing, 289-290

Software as a Service (SaaS)

Software as a Service (SaaS), cloud computing, 283 software development kit (SDK), 61 Softwarejobs.com, 364 SolMan (Solution Manager), 251 Solution Centers, All-in-One, 65 Solution Manager, 251 SPAD, print management, 308 SPAU, 325 SPDD, 325

(SSO), 275-277 SPOFs (single points of failure), 36 Spool Request Attributes, 167-169

SPNego, SAP Single Sign-On

cover sheets, 169
General Properties, 168
output options, 169
Spool Request, 168-169

## Spool Request, Spool Request Attributes

Spool Request, Spool Request

Attributes, 168-169 storage infrastructure, 259 NetWeaver, 76-77 SRM (Supplier Relationship storage system availability, 35-36 SAP NetWeaver, 58 Management), 9, 57, 110-111 storage system performance, 35 teams business benefits and stress testing, 124 assembling, 222-224 impact, 111-112 Structural Graphics, 176 business teams, 45 integration benefits, structures, database basics, configuration teams, 45 SRM-to-PLM, 111 40-41 data teams, 46 SSO. See Single Sign-On (SSO) Supplier Relationship development teams, 45 ST02, 314 Management. See SRM integration teams, 45 ST03. 309-311 (Supplier Relationship other teams, 46 ST03G, 311 Management) security teams, 46 ST06, 311-312 Supply Chain Cockpit (SCC), 105 technical teams, 46 ST07. 312-314 Supply Chain Management. See test/QA teams, 45 SCM staffing, SAP Basis, 239-240 technical perspective, 25 System Information icon, status stakeholders, business technical positions. fields, 166-167 perspectives, 23 IT professionals, 345-346 system logs standalone engines, NetWeaver, 80 technical project management, IT ABAP stacks, 303 standard query areas, 184 professionals, 346 Java stacks, 303 standard toolbar, SAPGUI user technical teams, 46 interface, 131 reviewing, 303 TechTarget, 360-361 Status field, Status System option, Options tab, Local testers, 335-336 Information, 253 Layout button, 162 IT professionals, 346 status fields, System Information system status (SICK), 301 testing icon, 166-167 system variants, SAP software business acceptance testing, Status Information, IMG installation, 263 123-124 (Implementation Guide), systems with usage types, 253-255 implementation development NetWeaver, 80 phases, ASAP methodology, stopping transactions, 132 247-248 storage load testing, 124 cloud storage, 34-35 T SIT (system integration direct-attached storage, 34 testing), 123 network-attached storage, 34 table controls, screen objects. unit/functional testing, 123 storage area networks, 34 143 upgrades, 325-326 storage system availability, tables, database basics, 40-41 user acceptance testing, 124 35-36 tasks, performing with menu storage system paths, 132 performance, 35

storage area networks, 34

team productivity

### workload/performance management

test/QA teams, 45 third-parties, application considerations, 238

toolbars

application toolbar, SAPGUI user interface, 131-132 standard toolbar, SAPGUI user interface, 131

Trace tab, Local Layout button, 164

traces, displaying, 304-305 trainers, 335-336

IT professionals, 346

transactions, 9-10

stopping, 132

treasury management, 91
Treasury Management module,
SAP ERP Financials, 91

Tune Summary, 314
Tweak SAPGUI, 159

U

UME (User Management Engine), 153 unit/functional testing, 123 UNIX, 321 updates, SAP, 318 Upgrade Assistant, 325 Upgrade Customizing IMGs, 251 upgrades, 322

versus migrations, 320-321 project planning, 324-326 testing, 325-326 upgrading, 319-320 user acceptance testing, 124 user authorizations

> ABAP (Advanced Business Application Programming) WebAS (Web Application Server), 152-153

Java application servers, 153 user experience (UX), 46

All-in-One, 66

user groups, creating new, 185 user IDs, 48

logging on to access SAP, 129 user interfaces, 157-158

JavaGUI, 158 WebGUI, 158-159

WinGUI, 159

User Management Engine (UME), 153

UX (user experience), 46

V

ValueSAP, 227
variants, General Report
Selection, 179
modifying, 179-180
vendors, server hardware
vendors, 33
virtualization, 294
volume testing, 124

W-Z

Web Application Server (WebAS), 72

cloud computing, 289

web browsers, accessing SAP, 47-48

web channels, CRM (Customer Relationship Management), 55

Web Dynpro, 205-206

WebAS (Web Application Server), 72

WebGUI, 158-159

Wellesley Information Services (WIS), 357

Windows, SAPGUI, 159

Windows Clipboard, 143

copying unselectable data, 144 moving and copying data, 144

WinGUI, 159

WIS (Wellesley Information Services), 357

SAP conferences, 362-363

wizards, Report Wizard (Microsoft Access), 201-203

work processes, OS-based work processes, 38

workload distribution (SM50 and SM66), 302-303

workload/performance management, 309-311