

SAP Sourcing 10.0 w/ Database Oracle

Document History



Caution

Make sure that you have the latest version of this document on SAP Service Marketplace at service.sap.com/eso.

The following table provides an overview of the most important document changes.

Table 1

Version	Date	Description
1.0	2014-06-19	Initial version

Table 2

Version	Date	Description
1.1	2014-08-07	Initial version with minor updates

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1 Getting Started

1.1 About This Document

The master guide is the starting point for the technical implementation of SAP Sourcing.

i Note

The starting point for the technical upgrade of SAP Sourcing is the upgrade guide on SAP Service Marketplace at service.sap.com/eso.

Use the master guide to get an overview of SAP Sourcing and its software units from a technical perspective. The master guide is a planning tool that helps you to design your system landscape, and refers you to the required detailed documentation.

Since the master guide primarily discusses the overall technical implementation of SAP Sourcing rather than its subordinate components, additional software dependencies might exist without being mentioned explicitly in this guide. For information about component-specific software dependencies, see the corresponding installation guides.

1.2 Functional Overview of SAP Sourcing

SAP Sourcing covers the entire strategic source to contract process across all categories of spend. It consists of a suite of the following solutions:

- SAP Strategic Sourcing
- SAP Contract Lifecycle Management (SAP CLM)
- SAP Supplier Management

The key features of each of these solutions are listed below.

SAP Strategic Sourcing

SAP Strategic Sourcing lets you drive sustainable cost savings while ensuring sustainable sourcing processes.

This solution provides the following key features:

- Project management
Bring internal stakeholders together using a shared, online project plan. Keep team members up-to-date using status reports and alerts. Track opportunities for savings. Leverage preconfigured business process templates to reduce cycle time and help ensure that best practices are repeated throughout your organization.
- Collaborative, multiround sourcing processes
Enable multiple rounds to identify qualified suppliers and negotiate pricing while leveraging collaborative scoring and bid optimization features. Carry key data forward into a comprehensive request for proposal or auction.

- Requests for information, proposals, and quotations
Conduct simple or complex sourcing activities for direct, indirect, and service categories by automating the creation of requests for information, proposals, and quotations.
- Robust reporting
Analyze supplier responses using side-by-side comparisons, pricing, and potential savings reports. Help ensure that diverse suppliers are being invited to participate in sourcing events. Evaluate award decisions over time to understand what key criteria are being used in awarding business to suppliers.
- Effective auctions
Create competitive bidding environments using reverse, forward, and Dutch auctions. Interact with suppliers in real time, using instant messaging, bidding consoles with real-time updates, and graphical representations of auction activities. Easily manage bidding and disclosure rules, such as bid and rank visibility, automatic extensions, weighted-bidding cost factors, staggered start and end times for individual items, and reserve prices.
- Integrated sourcing and procurement execution
Integrate sourcing and procurement processes with SAP ERP and SAP SRM to drive compliance and realize savings.

SAP Contract Lifecycle Management

SAP Contract Lifecycle Management (SAP CLM) lets you optimize corporate contracts by automating contract creation, enhancing visibility, improving compliance, and delivering rapid time to value. By managing the entire contract lifecycle consistently across the enterprise, you can realize the full value of your contracts, resulting in higher profits and lower legal and financial risk.

This solution provides the following key features:

- Standardized, automated contract creation from clause libraries and templates
Streamline the approval process with consistent, preapproved language, controlled edits, and appropriate approvals.
- Fully searchable repository
- Contract performance management
Encourage purchasing under contract terms, track accruals against contracts, and streamline activities by quickly reporting on outstanding commitments and contracts.
- Integration with back-end systems and processes
Improve compliance by integrating contract information into back-end systems.
- Management of expirations and contract audits
Optimize contract negotiations by initiating timely renewals and leveraging the full contract history to negotiate better terms and conditions.

SAP Supplier Management

SAP Supplier Management lets you optimize supplier onboarding, information management, evaluation, and performance management. With full supplier visibility, you can make more-informed, collaborative supply decisions that boost profitability.

This solution provides the following key features:

- Supplier onboarding and qualification
Automate supplier onboarding processes with supplier self-service and identify the right suppliers easily by streamlining the process for gathering additional information.
- Supplier development
Drive improved performance with centralized monitoring and administration of supplier development.

- Supplier performance management
Manage scorecards and alerts related to key supplier performance indicators.
- Supplier information management
Capture, centralize, and share the most up-to-date supplier data across the enterprise, enabling more-informed, collaborative supply decisions.

More Information

SAP Library for SAP Sourcing on SAP Help Portal at help.sap.com ► *SAP Business Suite* ► *SAP Sourcing* ►

1.3 Supported Languages

SAP Sourcing supports the following languages:

- English
- Chinese, Simplified
- Czech
- Danish
- Dutch
- Finnish
- French
- German
- Hungarian
- Italian
- Japanese
- Korean
- Polish
- Portuguese (Brazilian)
- Russian
- Serbian
- Slovak
- Spanish
- Swedish
- Turkish


For more information, see *Install Language Packs* in the *Installation Guide for SAP Sourcing* on SAP Service Marketplace at service.sap.com/eso.

1.4 Important SAP Notes

The following table lists important SAP Notes. Make sure that you have the current version of each SAP Note from SAP Service Marketplace at service.sap.com/notes.

Table 3

SAP Note	Title
1786328	SAP Sourcing 10.0 Release Information Note
1526147	SAP Sourcing 9.0 Release Information Note
1478396	SAP Sourcing 7.0 Release Information Note

 **Note**
There is a Release Information Note (RIN) for each support package of SAP Sourcing 7.0. See the RIN for the support package to which you are upgrading.

1.5 System Landscape

For system landscape information, see *Supported Platforms and Configurations* in the product availability matrix on SAP Service Marketplace at service.sap.com/pam.

Basic authentication can be used to authenticate the user to access all systems in the landscape. For more information, see the configuration guide for SAP Sourcing on SAP Service Marketplace at service.sap.com/eso.

The following servers can be hosted on the SAP Hosting site:

- Sourcing
- Optimizer

Caution

We strongly recommend using a minimal system landscape for test and demo purposes only. For performance, scalability, high availability, and security reasons, do not use a minimal system landscape as your production landscape.

2 Software Units

The figure below provides an overview of the components and services that SAP Sourcing can include, depending on the license and distribution media. For more information about each of these components, see below and see also the installation guide for SAP Sourcing on SAP Service Marketplace at service.sap.com/eso.

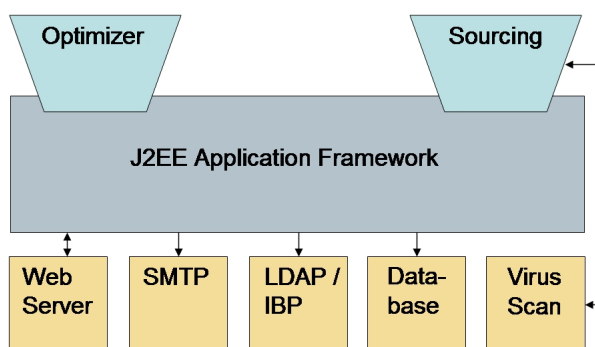


Figure 1: Components and Services

2.1 SAP Sourcing

2.1.1 Server Hardware Requirements

See [Sizing Guidelines \[page 13\]](#). For more information, see *Hardware and Software Requirements* in the installation guide for SAP NetWeaver 7.31 SP05 on SAP Service Marketplace at service.sap.com/instguidesnw73.

2.1.2 Server Software Requirements

SAP Sourcing 10.0 must be installed on SAP NetWeaver 7.31 SP05. You can find the installation guide for SAP NetWeaver 7.31 SP05 on SAP Service Marketplace at service.sap.com/instguidesnw73.

NetWeaver server requirements are as follows:

- Use NetWeaver 7.31 SP05 for all database/OS combinations.
- NetWeaver and SAP Sourcing should be installed on separate databases.
- The IBM i and System Z operating systems are not supported. For reference, these were previously called As400 and z/os.
- Download area: ► www.service.sap.com/swdc ► [NetWeaver 7.3](#) ►

Supported Database Platforms and Operating Systems

For detailed information about the supported database platforms and operating systems for SAP Sourcing and for the optimizer, see the Product Availability Matrix on SAP Service Marketplace at service.sap.com/pam.

Database Considerations

The spend and compliance module is supported only on Oracle.

Application Server Considerations

Be sure that the Java Development Kit (JDK) that you specify during the installation of SAP Sourcing (SAP JVM) is the same that is used by the application server.

The application server must have full access to the following folders in the SAP Sourcing installation:

- logs
This is required to write logs of the SAP Sourcing application.
- tmp
This is for use as a temporary folder for attached documents, generated reports, and so on.

Supported LDAP Directories

The following Lightweight Directory Access Protocol (LDAP) directories are supported by SAP Sourcing for the operating system/application server combinations:

- Sun ONE Directory Server 5.2
- Microsoft Active Directory 2003 or 2008
- OpenLDAP

Although SAP User Management Engine is not necessarily an LDAP directory, it can connect to an LDAP as a repository. We recommend using SAP User Management Engine instead of direct LDAP support.

Supported Virus Scan Engines

The following virus scan engines are supported by SAP Sourcing:

- Symantec Protection Engine for Cloud Services 7.0 with the Native API
- SAP VSI Interface

More Information

Product availability matrix on SAP Service Marketplace at service.sap.com/pam

2.1.3 Client Hardware Requirements

For client hardware information, see *Supported Platforms and Configurations* in the product availability matrix on SAP Service Marketplace at service.sap.com/pam.

Note

As with other Web-enabled applications, the performance of the SAP Sourcing client is highly dependent upon the network infrastructure between the Web browser client and the application server. SAP Sourcing

performance may suffer if sufficient bandwidth is not provided. Other factors that influence performance and, consequently, end user response times include the following:

- Network latency
- Number of concurrent users
- Event size (for example, size of RFx event), specifically the number of line items, suppliers, and questions
- Excessive (over 1,000) configurations, such as field extensions

2.1.4 Client Software Requirements

For client software requirement information, see *Supported Platforms and Configurations* in the product availability matrix on SAP Service Marketplace at service.sap.com/pam.

2.2 Optimizer

The optimizer is an optional tool that performs complex calculations and comparisons to automatically determine an award scenario based on your specified priorities, goals (such as achieving the lowest cost or the highest quality), and rules. The optimizer generates the best possible solutions to meet your goal based on the specified rules.

Prerequisites

The following are installed on the server:

- Java Development Kit (JDK)
- SAP NetWeaver 7.3
- SAP Sourcing

Integration

You must install the optimizer on a machine that is physically separate from the SAP Sourcing server. Technically, the system will still function if you run the optimizer on the same machine in a different Java Virtual Machine (JVM), but this is strongly discouraged.

i Note

You can install the optimizer independent of the SAP Sourcing installation. However, you can complete the optimizer installation only after a working SAP Sourcing application has been installed and a context has been created. Typically, the optimizer is installed just after the SAP Sourcing installation.

You must run the optimizer server with the same version and vendor for JVM software as the SAP Sourcing server. Otherwise, the optimizer will not function.

The figure below shows the recommended server topology.

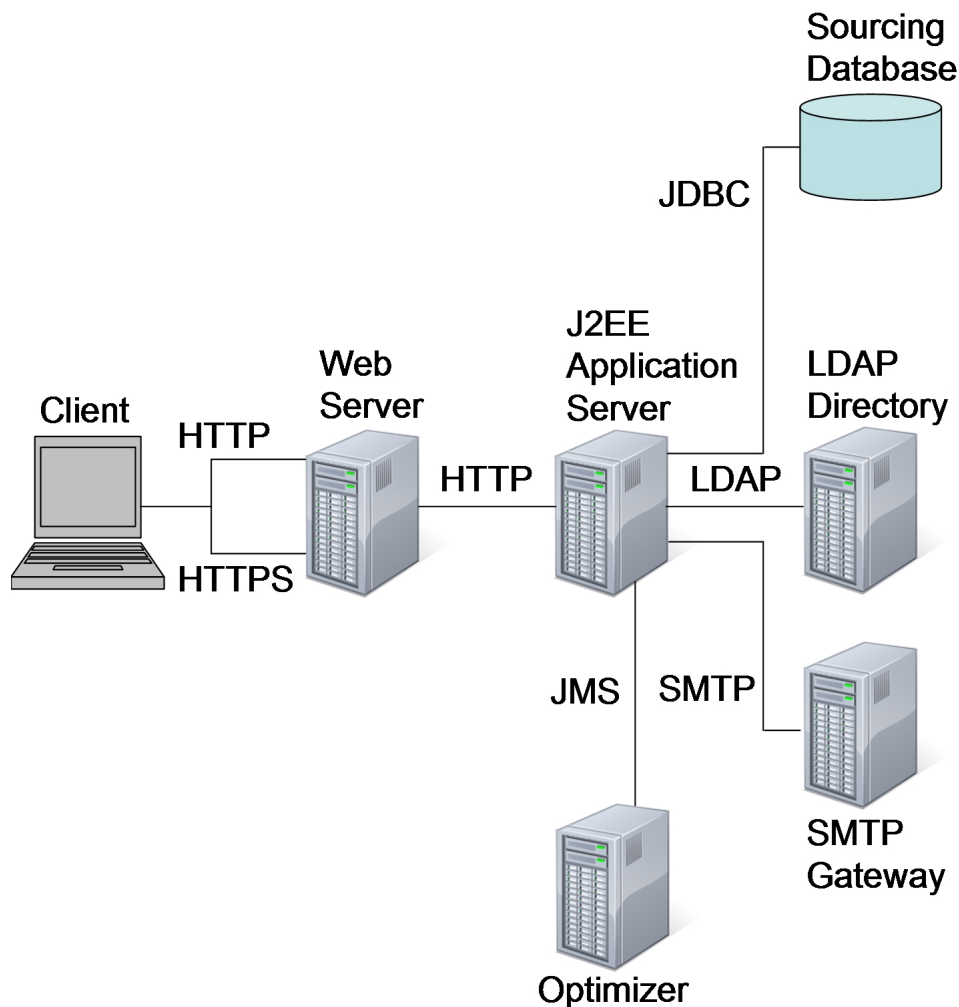


Figure 2: Recommended Server Topology

2.3 Contract Generation

Contract generation is an optional service that enables you to generate a contract from an RFx, auction, or master agreement. Each contract is based on a contract document template, which consists of clauses and sections of standard legal terms. Clauses can contain variables that are automatically replaced with terms and other detailed information that is taken directly from a sourcing event such as an RFx or auction, or from a specific agreement. The contract document is a Microsoft Word file that is attached to the sourcing event from which it is created. After the contract is generated, you can edit it in Microsoft Word (note that only .docx files are supported) and use it for negotiation with the supplier.

To enable the contract generation feature, do the following:

1. Log into SAP Sourcing as the system user.
2. Navigate to ► [Setup](#) ► [System Properties](#) ►.
3. Change the contract generation system property as follows:

```
contractgen.wordserviceenabled = FALSE
```

2.4 Sizing Guidelines

The sizing guidelines are based on a simple sizing model for a small and large installation. When the number of concurrent SAP Sourcing users is less than 50, it is considered a small installation; when the number of concurrent SAP Sourcing users is greater than 50, it is considered a large installation.

In addition, the sizing guidelines are based on the following assumptions:

- Each server is configured with the minimum recommended hardware configuration and has only a single J2EE instance with neither hardware nor software clustering enabled.
- Each deployed instance uses only out-of-box functionality with no custom modifications or customizations.
- All benchmarks are based on standard and most-used transactions and processes.

Sizing Guidelines for Core SAP Sourcing Application

A production installation employs a dual hardware strategy (two separate boxes) to support failover for a small installation. For optimal performance, a large installation may employ additional application instances to enable a user load balancing of approximately 50 concurrent SAP users per application instance. An application instance is defined as an instance of the application running within its own JVM. This can be accomplished on separate instances of NetWeaver on separate servers, by additional dialog instances within a NetWeaver landscape, or with the use of additional server nodes.

If SAP CLM is installed and contract generation (IIS server) is enabled, contract generation should reside on a separate server.

If SAP CLM is installed and RFx bid optimization is enabled, the optimizer should reside on a separate server.

SAP Sourcing Server

The minimum hardware requirements are as follows:

- Quad-core processor (for example, AMD Opteron 852 / 2.6GHz or equivalent)
- 16GB RAM, 70GB disk
- 64-bit server

The recommended JVM settings are as follows:

- -XX:MaxPermSize=1024m
- -XX:NewRatio=6
- -Xms4G
- -Xmx4G

Database Server

The minimum hardware requirements are as follows:

- Quad-core processor (for example, AMD Opteron 852 / 2.6GHz or equivalent)
- 16GB RAM
- 64-bit server

For information about scaling up the database server, see your database vendor's documentation on scalability.

Database sizing – specifically for the hard disk – involves two aspects, one of which is fixed and can be considered the baseline size. The other aspect is variable and based on the size of data growth in the application. The following examples are approximate metrics to provide a guideline for sizing. The actual required disk sizes can be obtained by assessing the anticipated rate of growth.

A baseline install of the SAP Sourcing application generates a database that is between 100MB and 150MB. The average database sizes for active customer installations tend to be 19GB, with some customer databases as large

as 150GB and some as small as 500MB. For any given customer, the growth of the database is highly usage-dependent and is relative to the number and size of the attachments.

Sizing Guidelines for Optional Components

Optimizer

The minimum hardware requirements are as follows:

- Quad-core processor (for example, AMD Opteron 852 / 2.6GHz or equivalent)
- 16GB RAM, 70GB disk
- 64-bit server

The recommended JVM settings are as follows:

- -XX:MaxPermSize=1024m
- -XX:NewRatio=6
- -Xms4G
- -Xmx4G

SAP NetWeaver PI

To derive the appropriate hardware sizing, use the Quick Sizer on SAP Service Marketplace at service.sap.com/quicksizing.

3 Overall Implementation Sequence

Process

The following table provides the overall implementation sequence for SAP Sourcing. The table contains all available software units.

Table 4

Action	Documentation	Additional Information
Install supported operating system	Installation Guide for SAP Sourcing on SAP Service Marketplace at service.sap.com/eso	
Install supported JDK and JRE	Installation Guide for SAP Sourcing	
Set up LDAP directory	Installation Guide for SAP Sourcing	Optional if not using Single Sign-On
Install and configure Web server		Optional
Install and configure anti-virus scan		Optional but recommended
Modify database management system (DBMS) and create database user (schema) per SAP specifications	Installation Guide for SAP Sourcing	
Install supported application server	Installation Guide for SAP Sourcing, specific application server documentation	
Install SAP Sourcing	Installation Guide for SAP Sourcing	
Configure SAP Sourcing	Configuration Guide for SAP Sourcing on SAP Service Marketplace at service.sap.com/eso	
Install SAP Sourcing Optimizer	Installation Guide for SAP Sourcing	Optional
Integrate SAP Sourcing with SAP ERP	Configuration Guide for Integrating SAP ERP and SAP Sourcing on SAP Service Marketplace at service.sap.com/eso	Optional
Integrate SAP Sourcing with SAP SRM	Configuration Guide for Integrating SAP SRM and SAP Sourcing on SAP Service Marketplace at service.sap.com/eso	Optional

4 References

4.1 Documentation for SAP Sourcing

The following table shows where to find application help, installation documentation, configuration documentation, upgrade documentation, and other technical documentation for SAP Sourcing.

Table 5

Title	Where to Find
Application Help for SAP Sourcing	help.sap.com ► <i>SAP Business Suite</i> ► <i>SAP Sourcing</i> ►
Component Upgrade Guide for SAP Sourcing	SAP Service Marketplace at service.sap.com/eso
i Note Be sure to choose the correct guide for your database.	
Configuration Guide for Integrating SAP ERP and SAP Sourcing	SAP Service Marketplace at service.sap.com/eso
Configuration Guide for Integrating SAP SRM and SAP Sourcing	SAP Service Marketplace at service.sap.com/eso
Configuration Guide for SAP Sourcing	SAP Service Marketplace at service.sap.com/eso
Installation Guide for SAP Sourcing	SAP Service Marketplace at service.sap.com/eso
i Note Be sure to choose the correct guide for your database.	
Scripting and Workflow Guide for SAP Sourcing	SAP Service Marketplace at service.sap.com/eso
Security Guide for SAP Sourcing	SAP Service Marketplace at service.sap.com/eso
Solution Operation Guide for SAP Sourcing	SAP Service Marketplace at service.sap.com/eso

4.2 Useful Links on SAP Service Marketplace

The following table contains useful links to information on SAP Service Marketplace.

Table 6

Content	SAP Service Marketplace
Installation and Upgrade Guide Documentation	service.sap.com/instguides
Maintenance Optimizer	service.sap.com/solman-mopz

Content	SAP Service Marketplace
Performance of SAP Software Solutions	service.sap.com/performance
Platform and Technology Information Center	service.sap.com/platforms
Product Availability Matrix	service.sap.com/pam
Quick Sizer	service.sap.com/quicksizing
Ramp-Up Knowledge Transfer (RKT)	service.sap.com/rkt
Release Notes – What's New	service.sap.com/releasenotes ► <i>SAP Solutions</i> ► <i>SAP Sourcing</i> ►
SAP Download Manager You can use SAP Download Manager to download software from SAP Software Distribution Center. If you have any problems or questions relating to SAP Download Manager, create a customer message under component XX-SER-SAPSMP-SDM.	service.sap.com/download-basket ► <i>Get Download Manager</i> ►
SAP Installations and Upgrades	service.sap.com/installations
SAP Maintenance Strategy	service.sap.com/maintenance
SAP Message Wizard	service.sap.com/message Use the relevant component under SRM-ESO.
SAP Notes Search	service.sap.com/notes
SAP Security Guides	service.sap.com/securityguide
SAP Software Catalog for Customers and Partners As an alternative to downloading software from SAP Software Distribution Center, you can order software on CD-ROM or DVD from the SAP software catalog. If you have problems or questions relating to ordering, create a customer message under component XX-SER-SWFL-SHIP.	service.sap.com/softwarecatalog
SAP Support Packages and Patches	service.sap.com/patches
SAP Support Package Stacks	service.sap.com/sp-stacks

4.3 Special Information for Ramp-Up Customers

If you encounter any problems in the SAP Sourcing ramp-up phase, report them as customer messages by using the SAP message wizard on SAP Support Portal at service.sap.com/message and indicate that the message is a ramp-up message. During the ramp-up phase, technical support is provided directly by SAP Development.

For information about the ramp-up process, see SAP Service Marketplace at service.sap.com/rampup. If you have questions about the ramp-up process, enter them in a customer message using component XX-SER-RU.

For a successful implementation of your project, we offer our ramp-up customers the relevant SAP online knowledge product at no cost. SAP online knowledge products are online training materials for the latest SAP

solutions and products. They contain delta knowledge on new functions of the software, implementation knowledge, and guidelines for your project. You receive role and task-specific online learning material for the implementation of your project, including the following:

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2. Name the product/solution you are implementing.
3. Provide the S-user IDs (for SAP Service Marketplace) of up to 10 of your consultants engaged in your project.

Access to the SAP online knowledge product is then granted immediately.

4.4 Related Master Guides

The following table shows where to find the master guides for related applications.

Table 7

Title	Location
Master Guide for SAP NetWeaver 7.3	websmp110.sap-ag.de/instguidesnw ► SAP NetWeaver ► SAP NetWeaver 7.3 ► Installation ►

Typographic Conventions

Table 8

Example	Description
<Example>	Angle brackets indicate that you replace these words or characters with appropriate entries to make entries in the system, for example, "Enter your <User Name>".
► Example ► Example ▢	Arrows separating the parts of a navigation path, for example, menu options
Example	Emphasized words or expressions
Example	Words or characters that you enter in the system exactly as they appear in the documentation
www.sap.com	Textual cross-references to an internet address
/example	Quicklinks added to the internet address of a homepage to enable quick access to specific content on the Web
123456	Hyperlink to an SAP Note, for example, SAP Note 123456
<i>Example</i>	<ul style="list-style-type: none"> Words or characters quoted from the screen. These include field labels, screen titles, pushbutton labels, menu names, and menu options. Cross-references to other documentation or published works
Example	<ul style="list-style-type: none"> Output on the screen following a user action, for example, messages Source code or syntax quoted directly from a program File and directory names and their paths, names of variables and parameters, and names of installation, upgrade, and database tools
EXAMPLE	Technical names of system objects. These include report names, program names, transaction codes, database table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE
EXAMPLE	Keys on the keyboard





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