



Siebel Retail Finance System Requirements and Supported Platforms

Version 2005, Rev. D

May 2010

Copyright © 2005, 2010 Oracle and/or its affiliates. All rights reserved.

The Programs (which include both the software and documentation) contain proprietary information; they are provided under a license agreement containing restrictions on use and disclosure and are also protected by copyright, patent, and other intellectual and industrial property laws. Reverse engineering, disassembly, or decompilation of the Programs, except to the extent required to obtain interoperability with other independently created software or as specified by law, is prohibited.

The information contained in this document is subject to change without notice. If you find any problems in the documentation, please report them to us in writing. This document is not warranted to be error-free. Except as may be expressly permitted in your license agreement for these Programs, no part of these Programs may be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purpose.

If the Programs are delivered to the United States Government or anyone licensing or using the Programs on behalf of the United States Government, the following notice is applicable:

U.S. GOVERNMENT RIGHTS

Programs, software, databases, and related documentation and technical data delivered to U.S. Government customers are "commercial computer software" or "commercial technical data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the Programs, including documentation and technical data, shall be subject to the licensing restrictions set forth in the applicable Oracle license agreement, and, to the extent applicable, the additional rights set forth in FAR 52.227-19, Commercial Computer Software--Restricted Rights (June 1987). Oracle America, Inc., 500 Oracle Parkway, Redwood City, CA 94065.

The Programs are not intended for use in any nuclear, aviation, mass transit, medical, or other inherently dangerous applications. It shall be the licensee's responsibility to take all appropriate fail-safe, backup, redundancy and other measures to ensure the safe use of such applications if the Programs are used for such purposes, and we disclaim liability for any damages caused by such use of the Programs.

The Programs may provide links to Web sites and access to content, products, and services from third parties. Oracle is not responsible for the availability of, or any content provided on, third-party Web sites. You bear all risks associated with the use of such content. If you choose to purchase any products or services from a third party, the relationship is directly between you and the third party. Oracle is not responsible for: (a) the quality of third-party products or services; or (b) fulfilling any of the terms of the agreement with the third party, including delivery of products or services and warranty obligations related to purchased products or services. Oracle is not responsible for any loss or damage of any sort that you may incur from dealing with any third party.

Oracle, JD Edwards, and PeopleSoft are registered trademarks of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

Contents

1 Introduction

- How This Book Is Organized 5
- Important Changes in the Current Revision 5
- Oracle's Siebel Documentation 6
- Oracle Welcomes Your Comments 6

2 Overview of Supported Environments

- Siebel Retail Finance Banking Application Client Types 9
- Siebel Financial Transactions WorkBench 9
- Supported Server Environments 9

3 Globalization Requirements

- Internationalization and Localization 11

4 Hardware and Network Requirements

- Hardware Requirements for Banking Application Server Environments 13
- Server Network Requirements 14
- Hardware Requirements for Siebel Retail Finance Client Environments 14
- Client Network Requirements 15

5 Software Requirements for Client Environments

- Software Requirements for Branch Teller Clients 17
- Software Requirements for Financial Components WorkBench 17
- Requirements for Third-Party Software 18

6 Software Requirements for Server Environments

- Supported Siebel Retail Finance Central Server Operating System 21
- Supported Siebel Retail Finance Branch Server Operating System 21

7 Supported Database Server Platforms

Supported Relational Database Management System Platforms 23

8 Supported Software and Ancillary Programs

Microsoft/IBM/BEA Service Packs, Hotfixes, and Support 25

Supported Software 25

Ancillary Programs 27

Apache License 28

IBM ICU License 30

JDOM License 31

1

Introduction

This chapter provides an overview of how this book is organized and includes the following topics:

- How This Book Is Organized
- Siebel Documentation
- Oracle Welcomes Your Comments

How This Book Is Organized

This book contains the definitive list of system requirements and supported platforms for Oracle's Siebel Retail Finance modules for Release 2005. Siebel Retail Finance is comprised of the following modules:

- Siebel Branch Teller
- Siebel Retail Finance Foundation Services
- Siebel Financial Transactions WorkBench

Important Changes in the Current Revision

The table below documents important changes made in each revision of the document.

Table 1. Important Changes in the Current Revision

Revision	Chapter	Section	Change
D	Supported Software and Ancillary Programs	Supported Software, page 27	In Table 13, added support for IBM WebSphere 6.1.0.29 and Oracle 11.2.0.1g.
D	Overview of Supported Environments	Supported Server Environments, page 11	In Table 1, added support for IBM WebSphere 6.1.0.29 on Oracle 11.2.0.1g.
C	Supported Software and Ancillary Programs	Supported Software, page 27	In Table 13, added support for IBM WebSphere 6.0.1 and IBM DB2 UDB (Universal Database) 8.2.

Revision	Chapter	Section	Change
C	Overview of Supported Environments	Supported Server Environments, page 11	In Table 1, added support for IBM WebSphere 6.0.1 on IBM DB2 Universal Database (UDB) 8.2.
C	N/A	N/A	Updated the document to reflect Oracle branding guidelines.
B	Supported Software and Ancillary Programs	Supported Software, page 27	Rational Rose supported version changed from Professional J Edition 2000e to Enterprise Edition 2003.

Oracle's Siebel Documentation

Oracle's Siebel Retail Finance Bookshelf is available on OTN at

<http://www.oracle.com/technology/documentation/siebel.html/>.

Additional documentation, including *Siebel Retail Finance System Requirements and Supported Platforms*, *Siebel Retail Finance Release Notes*, *Siebel Retail Finance Maintenance Release Guides*, Documentation Updates, is available only on Siebel SupportWeb. Updated versions of documentation, including the Siebel Retail Finance Bookshelf, are posted to Siebel SupportWeb regularly.

Siebel Retail Finance Release Notes contain the most current information on known product anomalies and workarounds. The information contained in the current version of the *Siebel Retail Finance Release Notes* supersedes the content of all documentation provided with or for the Siebel Retail Finance Programs. It is important that you thoroughly review the *Siebel Retail Finance Release Notes* prior to the installation and use of the software to ensure a smooth installation and upgrade process.

Oracle Welcomes Your Comments

To help us improve our products, we want to know about any corrections or clarifications to this guide that you would find useful. Please include in your message:

- The title and version of the guide (essential)
- The name and version number of the Siebel application you are using
- Your name, job title or functional area, company name, phone number, and email address

Contact us through regular mail or email at:

Oracle
 Siebel Technical Publications Department
 500 Oracle Parkway
 Redwood Shores, CA 94065

Siebeldoc_ww@oracle.com

We appreciate your feedback.



2

Overview of Supported Environments

This chapter describes Siebel Retail Finance client types and supported environments. This chapter includes the following topics:

- Siebel Retail Finance Banking Application Client Types
- Siebel Financial Transactions WorkBench
- Supported Server Environments

Siebel Retail Finance Banking Application Client Types

The Siebel Retail Finance banking application modules include the following clients:

- **Siebel Branch Teller.** Siebel Branch Teller is a multi-tier application. The client software runs as a Java Swing application.

Siebel Financial Transactions WorkBench

The Siebel Retail Finance Financial Transactions WorkBench module is comprised of the following applications:

- **Design Tools.** The Design Tools are a collection of Microsoft Windows applications which are integrated with Rational Rose.
- **Screen Orchestrator.** The Screen Orchestrator is a stand-alone Java application.
- **Financial Process Integrator.** The Financial Process Integrator is a stand-alone Java application.

Supported Server Environments

Siebel Retail Finance modules can be deployed on heterogeneous environments, where the application servers and database servers reside on different supported platforms. Table 1 lists the Siebel Retail Finance supported server environments.

Table 2. Supported Server Environments.

Application Server or Web Server	Application Server or Web Server Operating System	RDBMS Server	RDBMS Operating System
----------------------------------	---	--------------	------------------------

Application Server or Web Server	Application Server or Web Server Operating System	RDBMS Server	RDBMS Operating System
IBM WebSphere 6.1.0.29	IBM AIX 6.1.2.0	Oracle 11.2.0.1g	IBM AIX 6.1
BEA WebLogic 8.1.0	Sun Solaris 9	Oracle 9i Enterprise Server (9.2.0.4.0)	Sun Solaris 9
IBM WebSphere 5.1.1	IBM AIX 5.2	IBM DB2 UDB 8.1 FixPak 5	IBM AIX 5.2
IBM WebSphere 5.1.1	IBM AIX 5.2	Oracle 9i Enterprise Server (9.2.0.4.0)	Sun Solaris 9
IBM WebSphere 6.0.1	IBM AIX 5.2	IBM DB2 UDB 8.2	IBM AIX 5.2

3

Globalization Requirements

This chapter includes the topic Internationalization and Localization.

Internationalization and Localization

Siebel Retail Finance banking application modules support internationalization and localization for specific languages, based on customer demand. Siebel Retail Finance Modules Version 2005 includes the localization support listed in Table 2, where Yes indicates support. Please contact your Oracle representative for updates on supported languages.

Table 3. Localized Languages for Siebel Retail Finance Version 2005

Language Description	Language Code	Siebel Retail Finance Banking Application	Supported Database Code Pages
English	ENU	Yes	Traditional ¹ /Unicode

¹ English language (US) is available on all supported database code pages.





4

Hardware and Network Requirements

This chapter describes the hardware and network requirements for the Siebel Retail Finance Server and Client environment and includes the following topics:

- Hardware Requirements for Banking Application Server Environments
- Server Network Requirements
- Hardware Requirements for Siebel Retail Finance Client Environments
- Client Network Requirements

Hardware Requirements for Banking Application Server Environments

Table 3 lists the minimum hardware requirements for the Siebel Retail Central Server.

Table 4. Siebel Retail Finance Central Server Hardware Requirements

Platform	Server Environment	Minimum Hardware Required
IBM AIX 6.1.2.0	Application Server	As recommended by the Application Server vendor
	Web Server (comes as part of the Application Server, however, the Web tier can be deployed separately)	As recommended by the Application Server vendor
	Database Server (RDBMS)	As recommended by the Database Server vendor
IBM AIX 5.2	Application Server	As recommended by the Application Server vendor
	Web Server (comes as part of the Application Server, however, the Web tier can be deployed separately)	As recommended by the Application Server vendor
	Database Server (RDBMS)	As recommended by the Database Server vendor
Sun Solaris 9	Application Server	As recommended by the Application Server vendor
	Web server (comes as part of the Application Server, however the Web	As recommended by the Application Server vendor

Platform	Server Environment	Minimum Hardware Required
	tier can be deployed separately)	
	Database Server (RDBMS)	As recommended by the Database Server vendor

NOTE: The number of servers, CPU, and memory capacity that are required to operate Siebel Retail Finance Modules increase with the number and types of users, and the number of Siebel Retail Finance Modules deployed.

Table 4 lists the minimum hardware requirements for the Branch Server.

Table 5. Minimum and Recommended Hardware Requirements for Siebel Retail Finance Branch Server

Platform	CPU and Storage Requirements	Memory Requirement
Microsoft XP Professional 2002 SP1 and SP2	One class processor with a capacity of 1 Ghz, and with 100 GB of storage	2 gigabytes (GB) recommended.

Server Network Requirements

Siebel Retail Finance Banking Application server machines require a TCP/IP LAN with a minimum 100 megabytes (MB) per second connection between the database that hosts the Siebel data and the Siebel Servers.

Hardware Requirements for Siebel Retail Finance Client Environments

Table 5 lists the minimum hardware requirements for the Siebel Retail Finance client environments.

Table 6. Minimum and Recommended Hardware Requirements for Siebel Retail Finance Client Environments

Client Type	CPU and Storage Requirements	Minimum Memory Requirement on Windows XP Professional
Banking Application Java client (Branch Teller)	One 500 megahertz (MHz) X86 class processor, and 40 MB of storage	512 megabytes (MB) minimum. 1 gigabyte (GB) is recommended.
Banking Application JSP client	One 500 megahertz (MHz) X86 class processor, and 40 MB of storage	512 megabytes (MB) minimum. 1 gigabyte (GB) is recommended.

Client Type	CPU and Storage Requirements	Minimum Memory Requirement on Windows XP Professional
Siebel Financial Transactions WorkBench Windows Application	One 500-MHz X86 class processor, and 650 MB of storage	300 MB to install.

Client Network Requirements

Siebel Retail Finance Banking Application Java clients, such as Siebel Branch Teller, should use a 56-kilobytes per second (kbps) modem or better. If lower bandwidth modems are used the application will be functional, however, performance degradation can be expected.

5

Software Requirements for Client Environments

This chapter describes the software platform requirements for the Siebel Retail Finance clients, and Financial Transactions WorkBench Windows application. Required software lists products that must be installed separately by the user on the client machine in order to achieve basic Siebel functionality.

This chapter includes the following topics:

- Software Requirements for Branch Teller Clients
- Software Requirements for Financial Components WorkBench
- Requirements for Third-Party Software

Software Requirements for Branch Teller Clients

Table 6 lists the supported client operating system, Web browser and Java Runtime Environment (JRE) combinations for Siebel Retail Finance Branch Teller clients. See Table 9 for supported versions, required minimum patch levels, and other third-party software requirements.

Table 7. Branch Teller Client Software Requirements

Operating System	Web Browser	JRE
Microsoft XP Professional 2000 SP4	Microsoft Internet Explorer 6	1.4.2
Microsoft XP Professional 2002 SP1	Microsoft Internet Explorer 6	1.4.2
Microsoft XP Professional 2002 SP2	Microsoft Internet Explorer 6	1.4.2

Software Requirements for Financial Components WorkBench

Siebel Retail Finance Financial Components WorkBench is a Java application for Windows. Table 8 lists the software requirements for each WorkBench Module. See Table 9 for supported versions, required minimum patch levels, and other third-party software requirements.

Table 8. Financial Components WorkBench Software Requirements

Module	Operating System	JDK	Rational Rose
--------	------------------	-----	---------------

Module	Operating System	JDK	Rational Rose
Design Tools	Microsoft XP Professional 2002 SP1	1.4.2	Enterprise Edition 2003
Screen Orchestrator	Microsoft XP Professional 2002 SP1	1.4.2	Not applicable
Financial Process Integrator	Microsoft XP Professional 2002 SP1	1.4.2	Not applicable

Requirements for Third-Party Software

Table 9 Lists third-party supported versions and required minimum patch levels.

Table 9. Third-Party Software Requirements

Third-Party Product	Prerequisites and Notes	Supported Version
Microsoft Windows XP Professional	<p>Service Pack 2 is a prerequisite for customers running Windows 2002 XP Professional.</p> <p>Microsoft makes service packs available at:</p> <p>http://www.microsoft.com/downloads/details.aspx?FamilyID=d4d8a9a4-31fc-480b-9cd9-adccb6997ce3&DisplayLang=en</p> <p>Additional information regarding fixes in this Service Pack can be found at:</p> <p>http://support.microsoft.com/default.aspx?scid=kb;en-us;Q324720</p>	2002 SP2
Microsoft Windows XP Professional	<p>Service Pack 1 is a prerequisite for customers running Windows 2002 XP Professional.</p> <p>Microsoft makes service packs available at:</p> <p>http://www.microsoft.com/downloads/details.aspx?FamilyID=d4d8a9a4-31fc-480b-9cd9-adccb6997ce3&DisplayLang=en</p> <p>Additional information regarding fixes in this Service Pack can be found at:</p> <p>http://support.microsoft.com/default.aspx?scid=kb;en-us;Q324720</p>	2002 SP1

Third-Party Product	Prerequisites and Notes	Supported Version
Microsoft Internet Explorer	<p>Internet Explorer 6.0 Service Pack 2 or above is a prerequisite for customers running Microsoft Windows XP Professional. Microsoft makes this patch and related information available through their support organization or the following download location: http://www.microsoft.com/windows/ie/downloads/critical/ie6sp1/default.mspx Cumulative Security Update for Internet Explorer 6 Service Pack 1 (KB867801) or above is a prerequisite. Microsoft makes this patch and related information available through their support organization or the following download location: http://www.microsoft.com/downloads/details.aspx?FamilyId=06F49985-F19F-4B50-A75F-7636D8BEE576&displaylang=en Sun Java Runtime Environment (JRE) 1.5.0 or above is a prerequisite.</p>	6.0





6

Software Requirements for Server Environments

This chapter describes the software platform requirements for Siebel Retail Finance Server Modules. It includes the following topics:

- Supported Siebel Retail Finance Central Server Operating Systems
- Supported Siebel Retail Finance Branch Server Operating System

Supported Siebel Retail Finance Central Server Operating System

Table 10 lists the third-party software products that must be installed on the Siebel Retail Finance Central Server. These products are not provided by Oracle; they must be obtained by the customer.

Table 10. Supported Central Server Operating System

Operating System Supplier and Product	Patch Level
IBM AIX 6.1.2.0	IBM makes Service Packs available at: http://www-933.ibm.com/support/fixcentral/main/System+p/AIX .
IBM AIX 5.2	IBM makes Service Packs available at: http://www-933.ibm.com/support/fixcentral/main/System+p/AIX .
Sun Solaris 9 (32-bit)	For Solaris patch downloads, see http://www.sun.com/software/download/inter_ecom.html .

Supported Siebel Retail Finance Branch Server Operating System

The Branch server supports offline transactions when the central server is offline. Table 11 lists the third-party software products that must be installed on the servers. These products are not provided by Oracle; they must be obtained by the customer.

Table 11. Supported SRF Branch Server Operating System

Supplier and Software Product	Patch Level
-------------------------------	-------------

Supplier and Software Product	Patch Level
Microsoft Windows XP Professional	<p>Service Pack 2 is a prerequisite for customers running Windows 2002 XP Professional.</p> <p>Microsoft makes service packs available at: http://www.microsoft.com/downloads/details.aspx?FamilyID=d4d8a9a4-31fc-480b-9cd9-adccb6997ce3&DisplayLang=en</p> <p>Additional information regarding fixes in this Service Pack can be found at: http://support.microsoft.com/default.aspx?scid=kb;en-us;Q324720</p>
Microsoft Windows XP Professional	<p>Service Pack 1 is a prerequisite for customers running Windows 2002 XP Professional.</p> <p>Microsoft makes service packs available at: http://www.microsoft.com/downloads/details.aspx?FamilyID=d4d8a9a4-31fc-480b-9cd9-adccb6997ce3&DisplayLang=en</p> <p>Additional information regarding fixes in this Service Pack can be found at: http://support.microsoft.com/default.aspx?scid=kb;en-us;Q324720</p>

7

Supported Database Server Platforms

This chapter describes the software platform requirements for the Siebel Retail Finance database. It includes the topic Supported Relational Database Management System Platforms.

Supported Relational Database Management System Platforms

The Siebel Retail Finance Modules support the relational database management systems and platforms listed in Table 12.

Table 12. Supported Relational Database Management System Platforms

Vendor and Product	Version	Supported Operating System
Oracle 11.2.0.1.g Enterprise Server	11.2.0.1	IBM AIX 6.1.2.0
Oracle 9i Enterprise Server	9.2.0.4.0	Sun Solaris 9
IBM DB2 Universal Database (UDB) Enterprise Server Edition for AIX (32 bit)	8.1 with FixPak 5	IBM AIX 5.2
IBM DB2 Universal Database (UDB) Enterprise Server Edition for AIX (32 bit)	8.2	IBM AIX 5.2



8

Supported Software and Ancillary Programs

This chapter provides a comprehensive listing of the software developed by third-party vendors that is supported by, embedded in, or distributed with Siebel Retail Finance Applications. The third-party software and respective versions contained in this chapter supersede any other documentation that may be available.

This chapter includes the following topics:

- Microsoft/IBM/BEA Service Packs, Hotfixes, and Support
- Supported Software
- Ancillary Programs
- Apache License
- IBM ICU License
- JDOM License

Microsoft/IBM/BEA Service Packs, Hotfixes, and Support

Software vendors often provide new service packs, hotfixes, and patches to address known security issues or defects. In general, Oracle Corporation assumes that new software vendor hotfixes and service packs maintain backward compatibility to older versions of these same files as required by Oracle Corporation. Based on that fact, Oracle Corporation assumes low risk with implementing these security hotfixes and service packs. However, it is recommended that customers perform functional and performance testing prior to deploying these patches in a production environment. This statement applies to the list of supported software in Table 13.

Supported Software

Siebel Retail Finance Applications support the software products listed in Table 13. These products are not distributed with Siebel Retail Finance and must be obtained directly from the vendors that sell them.

Table 13. Siebel Retail Finance Supported Software

Product	Vendor	Version	Associated Siebel Retail Finance Module	Description
WebLogic	BEA	8.1.0	Siebel Retail Finance Foundation Services Branch Teller	

WebSphere (Network Deployment)	IBM	5.1.1, 6.0.1, 6.1.0.29	Siebel Retail Finance Foundation Services Branch Teller	J2EE application server and Web server
Oracle Database server	Oracle	11.2.0.1.g	Siebel Retail Finance Foundation Services Branch Teller	RDBMS
DB2 UDB	IBM	8.1, 8.2,9.7	Siebel Retail Finance Foundation Services Branch Teller	RDBMS
Java 2 Runtime Environment (J2RE), Standard Edition	Sun	1.4.2	Siebel Retail Finance Foundation Services Branch Teller	Java software development kits and run-time environments used to develop and support Java applications.
Java Development (JDK)	Sun	1.4.2	Financial Transactions WorkBench	Java software development kits and run-time environments used to develop and support Java applications.
Java Communications API Specification	Sun	2.0	Branch Teller	Java communications API used to interface with peripheral devices. The win32 API is available for download at: http://javashop1m.sun.com/ECom/docs/Welcome.jsp?StoreId=22&PartDetailId=7235-javacomm-2.0-spec-oth-JSpec&SiteId=JSC&TransactionId=noreg

Rational Rose	Rational Rose	Enterprise Edition 2003	Financial Transactions WorkBench	Unified Modelling Language (UML) tool
2GIF	fCoder	5.2	Siebel Financial Transactions WorkBench (Design Tools application)	An image converter used to publish documentation to HTML format.
XML Core Services (MSXML)	Microsoft	3.0 Service Pack 4	Siebel Financial Transactions WorkBench (Design Tools application)	Microsoft XML Core Services (MSXML) allows customers to build high-performance XML-based applications that provide a high degree of interoperability with other applications that adhere to the XML 1.0 standard
Siebel CRM Financial Services	Oracle	7.8.2	Branch Teller CRC functionality	An installation of Siebel CRM Financial Services is required to enable the Branch Teller CRC functionality.

Ancillary Programs

The ancillary programs listed in Table 14 are provided with Siebel Retail Finance through licensing agreements with the vendors that own them. The use of all ancillary programs is governed by the terms of the Software License and Services Agreement (SLSA) between your company and Oracle.

Instructions for installing ancillary programs are provided in the *Siebel Retail Finance Installation Guide* on the Siebel Retail Finance Bookshelf. Your Oracle Siebel Retail Finance software may include some or all of the ancillary programs listed in Table 14.

Table 14. Ancillary Programs

Product	Vendor	Version	Associated Siebel Retail Finance Module	Distribution Method and Description
---------	--------	---------	---	-------------------------------------

Ant	Apache Software Foundation	1.5.4	<ul style="list-style-type: none"> ■ Branch Teller ■ Foundation Services ■ Financial Transactions WorkBench 	Distributed. This is a Java-based build tool.
ICU	IBM	3.0	Branch Teller	Embedded. ICU is a set of Java library components used to develop Unicode supported software services
J2EE JAR	Sun Microsystems	1.3.1	<ul style="list-style-type: none"> ■ Branch Teller 	Distributed. J2EE class libraries provided by Sun Microsystems.
JDOM	The JDOM Project	8 and 9	<ul style="list-style-type: none"> ■ Foundation Services ■ Financial Transactions WorkBench 	Embedded. Provides a Java representation of XML documents.
Log4J	Apache Software Foundation	1.2.6, 1.2.7 and 1.2.8	Foundation Services	Embedded. Provides logging functionality.
Adaptive Server Anywhere (ASA)	Sybase	9.0.1 (1751)	Branch Teller (Branch offline server)	Distributed. RDBMS.
Statesoft	ViewControl (formerly called JStateMachine runtime)	Not applicable	<ul style="list-style-type: none"> ■ Branch Teller ■ Financial Transactions WorkBench—Screen Orchestrator application. 	Embedded. The ViewControl runtime product is an application framework that simplifies and speeds the development of user interfaces.

Apache License

Relevant portions of the License Agreement for the Apache products bundled with Siebel Retail Finance are reprinted as follows:

Siebel Retail Finance Modules and other Siebel products include this software, which was developed by the Apache Software Foundation (www.apache.org). The Apache components are subject to the following terms and conditions.

The Apache Software License, Version 1.1

Copyright (c) 2000 The Apache Software Foundation. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

The end-user documentation included with the redistribution, if any, must include the following acknowledgment: "This product includes software developed by the Apache Software Foundation (<http://www.apache.org/>)."

Alternately, this acknowledgment may appear in the software itself, if and wherever such third-party acknowledgments normally appear.

The names "Apache" and "Apache Software Foundation" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact apache@apache.org.

Products derived from this software may not be called "Apache", nor may "Apache" appear in their name, without prior written permission of the Apache Software Foundation.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE APACHE SOFTWARE FOUNDATION OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

=====
=====

This software consists of voluntary contributions made by many individuals on behalf of the Apache Software Foundation. For more information on the Apache Software Foundation, please see.

Portions of this software are based upon public domain software originally written at the National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign.



IBM ICU License

ICU License - ICU 1.8.1 and later

COPYRIGHT AND PERMISSION NOTICE

Copyright (c) 1995-2001 International Business Machines Corporation and others

All rights reserved.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, provided that the above copyright notice(s) and this permission notice appear in all copies of the Software and that both the above copyright notice(s) and this permission notice appear in supporting documentation.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OF THIRD PARTY RIGHTS. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR HOLDERS INCLUDED IN THIS NOTICE BE LIABLE FOR ANY CLAIM, OR ANY SPECIAL INDIRECT OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Except as contained in this notice, the name of a copyright holder shall not be used in advertising or otherwise to promote the sale, use or other dealings in this Software without prior written authorization of the copyright holder.

All trademarks and registered trademarks mentioned herein are the property of their respective owners.

JDOM License

Copyright (C) 2000 Brett McLaughlin & Jason Hunter. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions, and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions, and the disclaimer that follows these conditions in the documentation and/or other materials provided with the distribution.
3. The name "JDOM" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact license@jdom.org.
4. Products derived from this software may not be called "JDOM", nor may "JDOM" appear in their name, without prior written permission from the JDOM Project Management (pm@jdom.org).

In addition, we request (but do not require) that you include in the end-user documentation provided with the redistribution and/or in the software itself an acknowledgement equivalent to the following:

"This product includes software developed by the JDOM Project (<http://www.jdom.org/>)."

Alternatively, the acknowledgment may be graphical using the logos available at <http://www.jdom.org/images/logos>.

THIS SOFTWARE IS PROVIDED ``AS IS'' AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE JDOM AUTHORS OR THE PROJECT CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL,

SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN

ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This software consists of voluntary contributions made by many individuals on behalf of the JDOM Project and was originally created by Brett McLaughlin <brett@jdom.org> and Jason Hunter <jhunter@jdom.org>. For more information on the JDOM Project, please see <<http://www.jdom.org/>>.