Oracle® Communications Network Integrity

Licensing Information User Manual

Release 7.4

F96772-01

July 2024

ORACLE®

Contents

Introduction

This Licensing Information document is a part of the product or program documentation under the terms of your Oracle license agreement and is intended to help you understand the program editions, entitlements, restrictions, prerequisites, special license rights, and/or separately licensed third-party technology terms associated with the Oracle software program(s) covered by this document (the "Program(s)"). Entitled or restricted use products or components identified in this document that are not provided with the particular Program may be obtained from the Oracle Software Delivery Cloud website (https://edelivery.oracle.com) or from media Oracle may provide. If you have a question about your license rights and obligations, please contact your Oracle sales representative, review the information provided in Oracle's Software Investment Guide (http://www.oracle.com/us/corporate/pricing/software-investment-guide/index.html), and/or contact the applicable Oracle License Management Services representative listed on http://www.oracle.com/us/corporate/license-management-services/index.html.

Licensing Information

Product	Subproduct	Licensing Description
Oracle Communications Network Integrity	Oracle Communications Network Integrity, Discovery Manager	Oracle Communications Network Integrity, Discovery Manager gives you the ability to: • Create, schedule, run, and manage discovery scans (including blackout windows); browse and manage scan results, including historical data about successful and failed scans; access the discovered data via the GUI or through programmatic interfaces. • Add generally available Cartridges from Oracle (such as the MIB-II SNMP cartridge and the Optical TMF814 CORBA cartridge) to the scan. Note that each cartridge must be individually licensed. • Use Abstract CLI cartridge to discover device information using command line interface of the device. • Use the Network Integrity Plugin for Oracle Communications Service Catalog and Design (SCD) to build new discovery cartridges and extend the data modeling of the discovery results. The Developer's Guide includes instructions about how to do this. Note that Oracle Communications Service Catalog and Design is a separately licensed product. • Use the Oracle Communications Network Integrity Software Developer Kit and its documentation. • Use the provided Oracle OAS Publisher template reports. Note that using the report templates is optional; if used they require Oracle OAS Publisher which is a separately licensed product. **Inclusions:** • **Oracle Enterprise Scheduler:** Oracle Communications Network Integrity customers are granted the restricted free license for Oracle Enterprise Scheduler. This license includes the ability to schedule and manage Network Integrity jobs for the discovery, reconciliation, assimilation, or resolution of data controlled from within the Network Integrity application only (as outlined in Licensing Notes above). Any use of this component outside of Oracle Communications Network Integrity requires the purchase of the appropriate licenses from Oracle. **Prerequisites:** • Oracle Database (Oracle RDBMS) Enterprise Edition • Oracle WebLogic Server Enterprise Edition • Oracle Communications Service Catalog and Design • Oracle OAS Publisher (if you would like to use the optional template discovery reports provided with Network Integrity)
Oracle Communications Network Integrity	Oracle Communications Network Integrity, Reconciliation Manager	The Oracle Communications Network Integrity, Reconciliation Manager includes the ability to: • Create, schedule, run, and manage discrepancy detection scans (including blackout windows) to compare data from two different sources and create discrepancies based on rules defined in cartridges. Typically, the two data sources are the discovered network (using the discovered results from Network Integrity Discovery Manager) and a network operator's inventory system, but any two data sources can

Product	Subproduct	Licensing Description
		be compared such as Billing, Customer Relationship Management, or two inventory systems.
		• Access the comparison results via the GUI or through programmatic interfaces; correct one data source (where applicable) or trigger the publishing of an event.
		• Use the Oracle Communications Network Integrity Software Developer Kit and documentation.
		• Use the Network Integrity Plugin for Oracle Communications Service Catalog and Design to build new reconciliation cartridges. The Developer's Guide includes instructions about how to do this. Note that Oracle Communications Service Catalog and Design is a separately licensed product.
		• Use the provided Oracle OAS Publisher template reports. Note that using the report templates is optional; Oracle OAS Publisher is a separately licensed product.
		• Use the Reference Integration with Oracle Communications UIM; this includes the ability to:
		o Use and extend the reference integration with Oracle Communications Unified Inventory Management (UIM) for importing inventory data and resolving discrepancies. This reference is based upon the Cartridge for MIB-II SNMP or Cartridge for Generic SNMP Cartridge, or the Cartridge for Optical TMF814 CORBA, one of which is required for full out-of-the-box functionality.
		Prerequisites for Unified Inventory Management (UIM) Integration Cartridge:
		o Oracle Communications Unified Inventory Management (UIM)
		Optional Prerequisites for Unified Inventory Management (UIM) Integration Cartridge:
		o Oracle Communications Network Integrity, Cartridge for MIB-II SNMP
		o Oracle Communications Network Integrity, Cartridge for Generic SNMP Cartridge
		o Oracle Communications Network Integrity, Cartridge for Optical UIM Cartridge
		• Use the Reference integration with Oracle Communications MetaSolv Solution (MSS), which includes the ability to:
		o Use the reference cartridge for integrating Network Integrity with Oracle Communications MetaSolv Solution (MSS). The cartridge can be extended and compiled using Oracle Communications Service Catalog and Design to create a deployable cartridge for Network Integrity.
		o Import data from a MetaSolv Solution (MSS) instance via prescribed methods in the Network Integrity MSS Integration Cartridge Guide.
		o Resolve discrepancies for devices and circuits into MetaSolv Solution (MSS), subject to limits documented in the Network Integrity MSS Integration Cartridge Guide.
		o Use the TMF814 model for integration; changing the model, or not having the cartridge for Optical TMF814 CORBA, will require extensibility.

Product	Subproduct	Licensing Description
		o Resolve discrepancies into MetaSolv Solution (MSS), requiring the Oracle Communication Network Integrity Cartridge for MSS Integration. Prerequisites for MetaSolv Solution (MSS) Cartridge: o Oracle Communications MetaSolv Solution (MSS) Optional Prerequisites for MetaSolv Solution (MSS) Integration Cartridge: o Oracle Communications Network Integrity, Assimilation Manager o Oracle Communications Network Integrity, Cartridge for CORBA o Oracle Communications Network Integrity, Cartridge for Optical Circuit Assimilation o Oracle Communications Network Integrity, Cartridge for Optical TMF814 CORBA **Inclusions:** • **Oracle Enterprise Scheduler:** Oracle Communications Network Integrity customers are granted the restricted free license for Oracle Enterprise Scheduler. This license includes the ability to schedule and manage Network Integrity jobs for the discovery, reconciliation, assimilation, or resolution of data controlled from within the Network Integrity application only (as outlined in Licensing Notes above). Any use of this component outside of Oracle Communications Network Integrity requires the purchase of the appropriate licenses from Oracle. **Prerequisites:** • Oracle Database (Oracle RDBMS) Enterprise Edition • Oracle WebLogic Server Enterprise Edition • Oracle Communications Service Catalog and Design • Oracle OAS Publisher (if you would like to use the optional template discovery reports provided with Network Integrity)
Oracle Communications Network Integrity	Oracle Communications Network Integrity, Assimilation Manager	The Oracle Communications Network Integrity, Assimilation Manager includes the ability to: • Use data from multiple scans or sources to deduce other information and create records of Assimilated data (for example, use port allocation data from two discovery scans to determine circuits that exist between those ports). • Add generally available cartridges from Oracle as they become available (may be subject to additional licensing). • Use and extend the Cartridge for Optical Circuit Assimilation as a reference for the creation of data relating to SDH circuits discovered from TMF814, or other sources. This reference is based upon the Cartridge for Optical TMF814 CORBA, which is required for full out-of-the-box functionality. • Use the Network Integrity Plugin for Oracle Communications Service Catalog and Design to build new assimilation cartridges. The Developer's Guide includes instructions about how to do this. Note that Oracle Communications Service Catalog and Design is a separately licensed product. **Inclusions:**

Product	Subproduct	Licensing Description
		• **Oracle Enterprise Scheduler:** Oracle Communications Network Integrity customers are granted the restricted free license for Oracle Enterprise Scheduler. This license includes the ability to schedule and manage Network Integrity jobs for the discovery, reconciliation, assimilation, or resolution of data controlled from within the Network Integrity application only (as outlined in Licensing Notes above). Any use of this component outside of Oracle Communications Network Integrity requires the purchase of the appropriate licenses from Oracle. **Prerequisites:** • Oracle Communications Network Integrity, Discovery Manager
Oracle Communications Network Integrity	Oracle Communications Network Integrity Cartridge for MIB-II SNMP Cartridges	This cartridge provides: • The ability to discover network element (NE) information (such as IP address, name, and logical interfaces) from an NE that supports MIB II using a pre-configured SNMP poll profile. • Pre-configured modeling and publishing of the discovered results from the poll list. • The ability to extend the cartridge by configuring a new SNMP poll profile to discover from an SNMP MIB (as described in the Cartridge and Developer's Guides). **Prerequisites:** • Oracle Communications Network Integrity, Discovery Manager
Oracle Communications Network Integrity	Oracle Communications Network Integrity Cartridge for Generic SNMP Cartridge	This cartridge provides: • The ability to discover network element (NE) information from a network vendor router or switch using a pre-configured SNMP poll profile based on the SNMP MIBs. This SNMP poll profile discovers significantly more information than the MIB-II SNMP Cartridge poll profile including detailed physical NE information (such as shelves, slots, sub-slots, and cards). • Pre-configured modeling and publishing of the discovered results from the poll list. • The ability to extend the cartridge by adding to the SNMP poll profile (as described in the Cartridge and Developer's Guides). **Prerequisites:** • Oracle Communications Network Integrity, Discovery Manager
Oracle Communications Network Integrity	Oracle Communications Network Integrity Cartridge for Optical TMF814 CORBA	This cartridge provides: • The ability to discover device information on managed elements (ME) from one or more TMF814-compliant systems using a pre-configured CORBA poll profile. • Pre-configured modeling and publishing of the discovered results from the poll list. • The ability to add support for new CORBA calls (as described in the Cartridge and Developer's Guides). • The ability to create reconciliation and resolution actions through Oracle Communications Service Catalog and Design (as described in the Cartridge and Developer's

Product	Subproduct	Licensing Description
		Guides). **Prerequisites:** • Oracle Communications Network Integrity, Discovery Manager
Oracle Communications Network Integrity	Oracle Communications Network Integrity Cartridge for File Transfer and Parsing	This cartridge provides: • The ability to retrieve information, in a known file format, from systems using FTP, SFTP, or from local server directories. • The ability to parse ASCII-Delimited and XML files and to extend the parser processors through Oracle Communications Service Catalog and Design (as described in the Cartridge and Developer's Guides). • Reference cartridges for ASCII and XML parsing. • The ability to extend the cartridge by adding a custom parsing processor through Oracle Communications Service Catalog and Design (as described in the Cartridge and Developer's Guides). • The ability to create reconciliation and resolution actions through Oracle Communications Service Catalog and Design (as described in the Cartridge and Developer's Guides). **Prerequisites:** • Oracle Communications Network Integrity, Discovery Manager
Oracle Communications Network Integrity	Oracle Communications Network Integrity Cartridge for CORBA	This cartridge provides: • An abstract cartridge for creating a deployable cartridge that uses the CORBA protocol for communication. The cartridge is extended and compiled using Oracle Communications Service Catalog and Design to create a deployable cartridge for Network Integrity. • The ability to build and extend the cartridge by modifying and adding to the framework (as described in the Cartridge and Developer's Guides). **Prerequisites:** • Oracle Communications Network Integrity, Discovery Manager
Oracle Communications Network Integrity	Oracle Communications Network Integrity Cartridge for TL1	This cartridge provides: • An abstract cartridge for creating a deployable cartridge that uses the TL1 protocol for communication. The cartridge is extended and compiled using Oracle Communications Service Catalog and Design to create a deployable cartridge for Network Integrity. • The ability to discover device information on managed elements (ME) from one or more TL1 compliant systems either directly or via a gateway. • The ability to add support for new TL1 calls/versions (as described in the Cartridge and Developer's Guides). • The ability to create reconciliation and resolution actions through Oracle Communications Service Catalog and Design (described in Network Integrity TL1 Cartridge Guide and Network Integrity Developer's Guide). • The ability to build and extend the cartridge by modifying

Product	Subproduct	Licensing Description
		and adding to the framework (as described in the Cartridge and Developer's Guides).
		Prerequisites:
		• Oracle Communications Network Integrity, Discovery Manager

Third-Party Notices and/or Licenses

Commercial Software

Commercial software products or components distributed in Oracle Communications Network Integrity are identified in the following table along with the applicable licensing information.

Provider	Component(s)	Functionality	Licensing Information
Zoho	SNMP API (4.0.7)	SNMP Discovery	This product is included as part of the license for Oracle Communications Network Integrity, Discovery Manager. Any use of this product outside of Oracle Communications Network Integrity, Discovery Manager requires the purchase of the appropriate licenses from the vendor. This product contains copyright material licensed from zoho, Inc. https://www.zoho.com. All rights to such copyright material rest with zoho.
Zoho	TL1 API (4.0.7)	TL1 Discovery	This product is included as part of the license for Oracle Communications Network Integrity Cartridge for TL1. Any use of this product outside of Oracle Communications Network Integrity requires the purchase of the appropriate licenses from the vendor. This product contains copyright material licensed from zoho, Inc. https://www.zoho.com. All rights to such copyright material rest with zoho.

Open Source or Other Separately Licensed Software

Required notices for open source or other separately licensed software products or components distributed in Oracle Communications Network Integrity are identified in the following table along with the applicable licensing information. Additional notices and/or licenses may be found in the included documentation or readme files of the individual third party software.

Provider	Component(s)	Functionality	Licensing Information
Apache Software Foundation	Jackson Databind 2.16.2 DEPENDENT LIBRARIES jackson-annotations-2.16.2.jar jackson-core-2.16.2.jar jackson-databind-2.16.2.jar	Basic data binding (mapping) functionality that allows for reading JSON content into Java Objects (POJOs) and JSON Trees (JsonNode), as well as writing Java Objects and trees as JSON.	Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at: http://www.apache.org/licenses/LICENSE-2.0. For a copy of the license, see Apache License, Version 2.0.
	OpenCSV 5.9 DEPENDENT LIBRARIES	Csv to Java de-serialization and	

Provider	Component(s)	Functionality	Licensing Information
		vice versa	
	opencsv-5.9.jar		
	commons-lang3-3.14.0.jar		
	commons-collections4-4.5.0-M1.jar		
	commons-beanutils2-2.0.0-SNAPSHOT.jar		
	poi-ooxml 5.2.5 DEPENDENT LIBRARIES poi-5.2.5.jar poi-ooxml-5.2.5.jar poi-ooxml-full-5.2.5.jar log4j-api-2.23.0.jar xmlbeans-5.2.0.jar commons-collections4-4.5-SNAPSHOT.jar commons-compress-1.26.0.jar commons-io-2.15.1.jar commons-codec-1.16.1.jar slf4j-jdk14-2.0.12.jar slf4j-api-2.0.12.jar	Used for excel to Java deserialization and vice-versa.	
	log4j-core 2.23.0 DEPENDENT LIBRARIES log4j-api-2.23.0.jar log4j-core-2.23.0.jar	Helps application in logging messages for debugging purposes.	
	Mina SSHD-mina	Used for ssh	

Provider	Component(s)	Functionality	Licensing Information
	2.12.1 DEPENDENT LIBRARIES sshd-common-2.12.1.jar sshd-core-2.12.1.jar sshd-mina-2.12.1.jar mina-core-2.0.25.jar slf4j-api-2.0.12.jar	connections	
	spring-orm 5.3.33 DEPENDENT LIBRARIES spring-orm-5.3.33.jar spring-jcl-5.3.33.jar spring-tx-5.3.33.jar spring-core-5.3.33.jar spring-beans-5.3.33.jar spring-jdbc-5.3.33.jar	Spring-ORM is a technique, or a Design Pattern used to access a relational database from an object-oriented language. In case of UIM and NI it is between Oracle Toplink and Oracle DB.	
	Commons Net 3.10.0 DEPENDENT LIBRARIES commons-net-3.10.0.jar	Apache Commons Net™ library implements the client side of many basic Internet protocols. The purpose of the library is to provide fundamental protocol access, not higher-level abstractions.	Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at: http://www.apache.org/licenses/LICENSE-2.0. For a copy of the license, see Apache License, Version 2.0.
	Apache FreeMarker 2.3.32 DEPENDENT LIBRARIES	Apache FreeMarker is a template engine: a Java library to generate text	

Provider	Component(s)	Functionality	Licensing Information
	freemarker.jar	output (HTML web pages, e-mails, configuration files, source code, etc.) based on templates and changing data.	
	spring-context 5.3.33 DEPENDENT LIBRARIES spring-beans-5.3.33.jar spring-core-5.3.33.jar, spring-expression-5.3.33.jar spring-context-5.3.33.jar	Spring contexts are also called Spring IoC containers, which are responsible for instantiating, configuring, and assembling beans by reading configuration metadata from XML, Java annotations, and/or Java code in the configuration files	
	Mina SSHD-sftp 2.12.1 DEPENDENT LIBRARIES jcl-over-slf4j-2.0.12.jar sshd-common-2.12.1.jar sshd-core-2.12.1.jar sshd-sftp-2.12.1.jar slf4j-api-2.0.12.jar	Library to support the SSH protocols on both the client and server side. Specifically SFTP	

Third-Party Licenses

Apache License, Version 2.0

The following applies to all products licensed under the Apache 2.0 License:

You may not use the identified files except in compliance with the Apache License, Version 2.0 (the "License").

You may obtain a copy of the License at http://www.apache.org/licenses/LICENSE-2.0.

Unless/ required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and limitations under the License.

Apache License
Version 2.0, January 2004
http://www.apache.org/licenses/

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. **Definitions**.

   "License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.
   "Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.
   "Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.
   "You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.
   "Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.
   "Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.
   "Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).
   "Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.
   "Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. **Grant of Copyright License**. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. **Grant of Patent License**. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. **Redistribution**. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

    a. You must give any other recipients of the Work or Derivative Works a copy of this License; and

    b. You must cause any modified files to carry prominent notices stating that You changed the files; and

    c. You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

    d. If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

    You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. **Submission of Contributions**. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. **Trademarks**. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. **Disclaimer of Warranty**. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. **Limitation of Liability**. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. **Accepting Warranty or Additional Liability**. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

Common Development and Distribution License 1.0

Licensed under the Apache License, Version 2.0 (see license above) and the CDDL-1.0 shown below

COMMON DEVELOPMENT AND DISTRIBUTION LICENSE (CDDL) Version 1.0

1. Definitions.

   1.1. "Contributor" means each individual or entity that creates or contributes to the creation of Modifications.
   1.2. "Contributor Version" means the combination of the Original Software, prior Modifications used by a Contributor (if any), and the Modifications made by that particular Contributor.
   1.3. "Covered Software" means (a) the Original Software, or (b) Modifications, or (c) the combination of files containing Original Software with files containing Modifications, in each case including portions thereof.
   1.4. "Executable" means the Covered Software in any form other than Source Code.
   1.5. "Initial Developer" means the individual or entity that first makes Original Software available under this License.
   1.6. "Larger Work" means a work which combines Covered Software or portions thereof with code not governed by the terms of this License.
   1.7. "License" means this document.
   1.8. "Licensable" means having the right to grant, to the maximum extent possible, whether at the time of the initial grant or subsequently acquired, any and all of the rights conveyed herein.
   1.9. "Modifications" means the Source Code and Executable form of any of the following: A. Any file that results from an addition to, deletion from or modification of the contents of a file containing Original Software or previous Modifications; B. Any new file that contains any part of the Original Software or previous Modification; or C. Any new file that is contributed or otherwise made available under the terms of this License.
   1.10. "Original Software" means the Source Code and Executable form of computer software code that is originally released under this License.
   1.11. "Patent Claims" means any patent claim(s), now owned or hereafter acquired, including without limitation, method, process, and apparatus claims, in any patent Licensable by grantor.
   1.12. "Source Code" means (a) the common form of computer software code in which modifications are made and (b) associated documentation included in or with such code.

1.13. "You" (or "Your") means an individual or a legal entity exercising rights under, and complying with all of the terms of, this License. For legal entities, "You" includes any entity which controls, is controlled by, or is under common control with You. For purposes of this definition, "control" means (a) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (b) ownership of more than fifty percent (50%) of the outstanding shares or beneficial ownership of such entity.

2. License Grants.

2.1. The Initial Developer Grant. Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, the Initial Developer hereby grants You a world-wide, royalty-free, non-exclusive license: (a) under intellectual property rights (other than patent or trademark) Licensable by Initial Developer, to use, reproduce, modify, display, perform, sublicense and distribute the Original Software (or portions thereof), with or without Modifications, and/or as part of a Larger Work; and (b) under Patent Claims infringed by the making, using or selling of Original Software, to make, have made, use, practice, sell, and offer for sale, and/or otherwise dispose of the Original Software (or portions thereof). (c) The licenses granted in Sections 2.1(a) and (b) are effective on the date Initial Developer first distributes or otherwise makes the Original Software available to a third party under the terms of this License. (d) Notwithstanding Section 2.1(b) above, no patent license is granted: (1) for code that You delete from the Original Software, or (2) for infringements caused by: (i) the modification of the Original Software, or (ii) the combination of the Original Software with other software or devices.
2.2. Contributor Grant. Conditioned upon Your compliance with Section 3.1 below and subject to third party intellectual property claims, each Contributor hereby grants You a world-wide, royalty-free, non-exclusive license: (a) under intellectual property rights (other than patent or trademark) Licensable by Contributor to use, reproduce, modify, display, perform, sublicense and distribute the Modifications created by such Contributor (or portions thereof), either on an unmodified basis, with other Modifications, as Covered Software and/or as part of a Larger Work; and (b) under Patent Claims infringed by the making, using, or selling of Modifications made by that Contributor either alone and/or in combination with its Contributor Version (or portions of such combination), to make, use, sell, offer for sale, have made, and/or otherwise dispose of: (1) Modifications made by that Contributor (or portions thereof); and (2) the combination of Modifications made by that Contributor with its Contributor Version (or portions of such combination). (c) The licenses granted in Sections 2.2(a) and 2.2(b) are effective on the date Contributor first distributes or otherwise makes the Modifications available to a third party. (d) Notwithstanding Section 2.2(b) above, no patent license is granted: (1) for any code that Contributor has deleted from the Contributor Version; (2) for infringements caused by: (i) third party modifications of Contributor Version, or (ii) the combination of Modifications made by that Contributor with other software (except as part of the Contributor Version) or other devices; or (3) under Patent Claims infringed by Covered Software in the absence of Modifications made by that Contributor.

3. Distribution Obligations.

3.1. Availability of Source Code. Any Covered Software that You distribute or otherwise make available in Executable form must also be made available in Source Code form and that Source Code form must be distributed only under the terms of this License. You must include a copy of this License with every copy of the Source Code form of the Covered Software You distribute or otherwise make available. You must inform recipients of any such Covered Software in Executable form as to how they can obtain such Covered Software in Source Code form in a reasonable manner on or through a medium customarily used for software exchange.
3.2. Modifications. The Modifications that You create or to which You contribute are governed by the terms of this License. You represent that You believe Your Modifications are Your original creation(s) and/or You have sufficient rights to grant the rights conveyed by this License.
3.3. Required Notices. You must include a notice in each of Your Modifications that identifies You as the Contributor of the Modification. You may not remove or alter any copyright, patent or trademark notices contained within the Covered Software, or any notices of licensing or any descriptive text giving attribution to any Contributor or the Initial Developer.

3.4. Application of Additional Terms. You may not offer or impose any terms on any Covered Software in Source Code form that alters or restricts the applicable version of this License or the recipients' rights hereunder. You may choose to offer, and to charge a fee for, warranty, support, indemnity or liability obligations to one or more recipients of Covered Software. However, you may do so only on Your own behalf, and not on behalf of the Initial Developer or any Contributor. You must make it absolutely clear that any such warranty, support, indemnity or liability obligation is offered by You alone, and You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of warranty, support, indemnity or liability terms You offer.

3.5. Distribution of Executable Versions. You may distribute the Executable form of the Covered Software under the terms of this License or under the terms of a license of Your choice, which may contain terms different from this License, provided that You are in compliance with the terms of this License and that the license for the Executable form does not attempt to limit or alter the recipient's rights in the Source Code form from the rights set forth in this License. If You distribute the Covered Software in Executable form under a different license, You must make it absolutely clear that any terms which differ from this License are offered by You alone, not by the Initial Developer or Contributor. You hereby agree to indemnify the Initial Developer and every Contributor for any liability incurred by the Initial Developer or such Contributor as a result of any such terms You offer.

3.6. Larger Works. You may create a Larger Work by combining Covered Software with other code not governed by the terms of this License and distribute the Larger Work as a single product. In such a case, You must make sure the requirements of this License are fulfilled for the Covered Software.

4. Versions of the License.

4.1. New Versions. Sun Microsystems, Inc. is the initial license steward and may publish revised and/or new versions of this License from time to time. Each version will be given a distinguishing version number. Except as provided in Section 4.3, no one other than the license steward has the right to modify this License.

4.2. Effect of New Versions. You may always continue to use, distribute or otherwise make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. If the Initial Developer includes a notice in the Original Software prohibiting it from being distributed or otherwise made available under any subsequent version of the License, You must distribute and make the Covered Software available under the terms of the version of the License under which You originally received the Covered Software. Otherwise, You may also choose to use, distribute or otherwise make the Covered Software available under the terms of any subsequent version of the License published by the license steward.

4.3. Modified Versions. When You are an Initial Developer and You want to create a new license for Your Original Software, You may create and use a modified version of this License if You: (a) rename the license and remove any references to the name of the license steward (except to note that the license differs from this License); and (b) otherwise make it clear that the license contains terms which differ from this License.

5. DISCLAIMER OF WARRANTY. COVERED SOFTWARE IS PROVIDED UNDER THIS LICENSE ON AN "AS IS" BASIS, WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES THAT THE COVERED SOFTWARE IS FREE OF DEFECTS, MERCHANTABLE, FIT FOR A PARTICULAR PURPOSE OR NON-INFRINGING. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE COVERED SOFTWARE IS WITH YOU. SHOULD ANY COVERED SOFTWARE PROVE DEFECTIVE IN ANY RESPECT, YOU (NOT THE INITIAL DEVELOPER OR ANY OTHER CONTRIBUTOR) ASSUME THE COST OF ANY NECESSARY SERVICING, REPAIR OR CORRECTION. THIS DISCLAIMER OF WARRANTY CONSTITUTES AN ESSENTIAL PART OF THIS LICENSE. NO USE OF ANY COVERED SOFTWARE IS AUTHORIZED HEREUNDER EXCEPT UNDER THIS DISCLAIMER.

6. TERMINATION.

6.1. This License and the rights granted hereunder will terminate automatically if You fail to comply with terms herein and fail to cure such breach within 30 days of becoming aware of the breach. Provisions which, by their nature, must remain in effect beyond the termination of this License shall survive.

6.2. If You assert a patent infringement claim (excluding declaratory judgment actions) against Initial Developer or a Contributor (the Initial Developer or Contributor against whom You assert such claim is referred to as "Participant") alleging that the Participant Software (meaning the Contributor Version where the Participant is a Contributor or the Original Software where the Participant is the Initial Developer) directly or indirectly infringes any patent, then any and all rights granted directly or indirectly to You by such Participant, the Initial Developer (if the Initial Developer is not the Participant) and all Contributors under Sections 2.1 and/or 2.2 of this License shall, upon 60 days notice from Participant terminate prospectively and automatically at the expiration of such 60 day notice period, unless if within such 60 day period You withdraw Your claim with respect to the Participant Software against such Participant either unilaterally or pursuant to a written agreement with Participant. 6.3. In the event of termination under Sections 6.1 or 6.2 above, all end user licenses that have been validly granted by You or any distributor hereunder prior to termination (excluding licenses granted to You by any distributor) shall survive termination.

7.   LIMITATION OF LIABILITY. UNDER NO CIRCUMSTANCES AND UNDER NO LEGAL THEORY, WHETHER TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL YOU, THE INITIAL DEVELOPER, ANY OTHER CONTRIBUTOR, OR ANY DISTRIBUTOR OF COVERED SOFTWARE, OR ANY SUPPLIER OF ANY OF SUCH PARTIES, BE LIABLE TO ANY PERSON FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY CHARACTER INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOST PROFITS, LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, OR ANY AND ALL OTHER COMMERCIAL DAMAGES OR LOSSES, EVEN IF SUCH PARTY SHALL HAVE BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. THIS LIMITATION OF LIABILITY SHALL NOT APPLY TO LIABILITY FOR DEATH OR PERSONAL INJURY RESULTING FROM SUCH PARTY'S NEGLIGENCE TO THE EXTENT APPLICABLE LAW PROHIBITS SUCH LIMITATION. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS EXCLUSION AND LIMITATION MAY NOT APPLY TO YOU.

8.   U.S. GOVERNMENT END USERS. The Covered Software is a "commercial item," as that term is defined in 48 C.F.R. 2.101 (Oct. 1995), consisting of "commercial computer software" (as that term is defined at 48 C.F.R. ¤ 252.227-7014(a)(1)) and "commercial computer software documentation" as such terms are used in 48 C.F.R. 12.212 (Sept. 1995). Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7202-4 (June 1995), all U.S. Government End Users acquire Covered Software with only those rights set forth herein. This U.S. Government Rights clause is in lieu of, and supersedes, any other FAR, DFAR, or other clause or provision that addresses Government rights in computer software under this License.

9.   MISCELLANEOUS.

This License represents the complete agreement concerning subject matter hereof. If any provision of this License is held to be unenforceable, such provision shall be reformed only to the extent necessary to make it enforceable.
This License shall be governed by the law of the jurisdiction specified in a notice contained within the Original Software (except to the extent applicable law, if any, provides otherwise), excluding such jurisdiction's conflict-of-law provisions.
Any litigation relating to this License shall be subject to the jurisdiction of the courts located in the jurisdiction and venue specified in a notice contained within the Original Software, with the losing party responsible for costs, including, without limitation, court costs and reasonable attorneys' fees and expenses.
The application of the United Nations Convention on Contracts for the International Sale of Goods is expressly excluded. Any law or regulation which provides that the language of a contract shall be construed against the drafter shall not apply to this License.
You agree that You alone are responsible for compliance with the United States export administration regulations (and the export control laws and regulation of any other countries) when You use, distribute or otherwise make available any Covered Software.

10. RESPONSIBILITY FOR CLAIMS.

As between Initial Developer and the Contributors, each party is responsible for claims and damages arising, directly or indirectly, out of its utilization of rights under this License and You agree to work with Initial Developer and Contributors to distribute such responsibility on an equitable basis. Nothing herein is intended or shall be deemed to constitute any admission of liability.