

# Quest® IT Security Search 11.3.2

## Release Notes

### March 2018

These release notes provide information about the Quest® IT Security Search release.

Topics:

- [About this release](#)
- [New features](#)
- [Enhancements](#)
- [Resolved issues](#)
- [Known issues](#)
- [System requirements](#)
- [Product licensing](#)
- [Upgrade and installation instructions](#)
- [More resources](#)
- [Globalization](#)

## About this release

IT Security Search provides IT administrators, IT managers and security teams with a way to navigate the expanse of information about the enterprise network.

## New features

New features in IT Security Search 11.3.2:

- **Delegation of Active Directory recovery privileges to operators**  
You can now configure which operators are allowed to restore backups directly from IT Security Search. The actual recovery functionality is provided by the Recovery Manager for Active Directory connector.

- **Support for new versions of associated products**

The following product versions are supported in this release:

- InTrust 11.3.1
- Change Auditor for Active Directory 6.9.5
- Recovery Manager for Active Directory 9.0
- Active Roles 7.2.1, 7.2

- **Support for TLS 1.2**

IT Security Search can now work in environments where TLS 1.2 is used exclusively.

## New in IT Security Search 11.3.1

- **Support for new versions of associated products**

The following Quest product versions are supported in this release:

- Change Auditor for Active Directory 6.9.4
- Enterprise Reporter 3.0
- Recovery Manager for Active Directory 8.8.1

## New in IT Security Search 11.3

- **Active Roles integration**

IT Security Search now has a connector for Active Roles, giving you access to security audit and management history. Active Roles 7.1 and 7.0 are supported.

- **Saved searches**

The searches you perform on a regular basis can now be saved for future use. Even more usefully, specific terms in such searches can be turned into customizable parameters for easy tweaking.

- **Support for Windows Server 2016**

IT Security Search can be installed on Windows Server 2016.

- **Searching by effective permissions**

Smarter analysis of Enterprise Reporter data lets you search not only by direct permissions on files and folders but also by effective permissions that result from group membership.

- **Support for new versions of associated products**

The following Quest product versions are supported in this release:

- InTrust 11.3
- Change Auditor for Active Directory 6.9.3, 6.9.2, 6.9.1
- Recovery Manager for Active Directory 8.8

- **Detailed documentation for all event fields**

Fields provided by all IT Security Search connectors are now documented in the [IT Security Search User Guide](#). This helps you tailor your searches to suit your data analysis needs precisely.

See also:

- [Enhancements](#)
- [Resolved issues](#)

# Enhancements

**Table 1: General enhancements**

Enhancement	Issue ID
Members of the computer local Administrators group on the IT Security Search server do not automatically become IT Security Search administrators anymore.	857
IT Security Search administrators can now be specified through Active Directory group membership.	887
Facet behavior has been improved: when you click <b>Show more</b> , IT Security Search now displays all filters instead of adding five items at a time.	883
You can now resize columns in the search result table.	834

## Enhancements in IT Security Search 11.3.1

There is now an easy way to fill in the list of repositories in InTrust connector settings. Use the **Select all available repositories** link instead of selecting repositories one by one.

## Enhancements in IT Security Search 11.3

**Table 2: General enhancements**

Enhancement	Issue ID
If an object is outside an operator's explicit scope, information about it should be hidden from the operator.	473
"Whom" field values should be context-sensitive like "Computer " and "Who" field values.	475
Make the "Result" field available for Change Auditor data.	394
Add a details page for events.	533
Improve documentation on SSL certificate requirements.	531
Make the "Organisational Unit" field clickable for computers.	528
Add fields for Office 365-related Change Auditor events.	627

## Resolved issues

The following is a list of issues addressed in this release.

**Table 3: Resolved issues**

Resolved Issue	Issue ID
The IT Security Search installer doesn't check the operating system version.	864
In connector settings, pressing <b>Enter</b> switches tabs if the selected connector is not the first.	844
In the <b>Restore Object</b> dialog box, there is no way to tell whether you are trying to restore the correct attribute.	140
Due to issues in previous IT Security Search versions, you may find yourself in a situation where incorrect Recovery Manager for AD settings are saved. Because of this, IT Security Search can fail to start.	839
An indexing error occurs during collection of computer data from Enterprise Reporter if a computer was removed and added again with the same name in Active Directory.	856
Security vulnerability: you can restore an Active Directory object from an OU that is out of your scope as an IT Security Search operator.	853
When you export results to PDF, some non-ASCII characters are incorrect in the resulting documents.	669

## Previous resolved issues

**Table 4: Resolved issues in InTrust 11.3.1**

Resolved Issue	Issue ID
If you change only the time range (but not the date range) after a search and try to search again, the new search does not start.	690
The <b>Files and folders where this user has permissions (both direct and indirect)</b> action link fails to take <b>Deny</b> permissions into account.	692
There is no "busy" animation on the Security tab to indicate activity.	650
Security vulnerability: if the results of a search contain JavaScript code instead of an attribute value, then this code is executed on the client side during result formatting.	212
If event has a file path in its description, this path is automatically converted to a hyperlink for convenience. However, in Change Auditor events this works only for files, not folders.	821

**Table 5: Resolved issues in IT Security Search 11.3 Updates 1 and 2**

Resolved Issue	Issue ID
If you specify a custom port instead of the default 8087 when you install the IT Security Search Warehouse API component, then the Active Roles connector will not be able to read Active Roles events. A symptom of this is the following error when you try the Test Connection link on the Active Roles connector configuration page:	666

Resolved Issue	Issue ID
<p>Connection error: Data attendant last error 'An error occurred while sending the request.</p> <p>To work around this issue, open the &lt;IT_Security_Search_installation_path&gt;\Connectors\ActiveRoles\ITSS.ARSCconnector.dll.config file and change the port number as necessary in the following line:</p> <pre>&lt;add key="WarehouseHttpPort" value="8087" /&gt;</pre>	
The link to the demo screen for a currently disabled connector doesn't work, because IT Security Search tries to perform a real search instead.	677
If an Active Directory object has been deprovisioned by Active Roles, the link to details about such an object doesn't work.	644
The number shown in the "Results found:" label may not match the number of items actually shown in the grid.	684
The <b>Who has direct or indirect access permissions on this file</b> action link fails to take <b>Deny</b> permissions into account.	576
Clicking <b>Rebuild Index</b> before clicking <b>Apply</b> in Enterprise Reporter connector options causes an error.	654
The event page shows native field names where it should show display names.	656
After you apply a filter by <b>Who</b> , the results pane shows more results than it should.	759
If you are looking at event details and then follow a link to the details for some other record type, then the date range is reset.	760
The default time range should be 00:00 to 23:59.	764
When you select the date range in the calendar control, changing the month above either calendar half also changes the month in the other half.	767

**Table 6: Resolved issues in IT Security Search 11.3**

Resolved Issue	Issue ID
The IT Security Search UI stops working if the authenticated user's display name contains non-ASCII characters.	609
If the account used for connecting to InTrust is denied the rights to log on interactively to the IT Security Search server, the InTrust connector does not work.	554

## Known issues

The following is a list of issues, including those attributed to third-party products, known to exist at the time of release.

**Table 7: General known issues**

Known Issue	Issue ID
Internet Explorer becomes unresponsive when IT Security Search shows a modal dialog box on top of the browser windows. You can work around this by minimizing all windows and clicking the close button in the modal window; Internet Explorer resumes working.	360
After an IT Security Search upgrade, the layout of the controls in the web interface can appear broken (missing blocks of data, misplaced elements and so on). You can correct this by refreshing the page, preferably with a cache cleanup ( <b>Ctrl+F5</b> ).	—
During the IT Security Search Warehouse installation step of IT Security Search setup, an unused service connection point is created in Active Directory. This operation is skipped if the user account used for installation doesn't have the required privileges. Whether or not the service connection point is created, this has no effect on the installation or operation of IT Security Search.	—

## System requirements

Before installing IT Security Search 11.3.2, ensure that your system meets the following minimum hardware and software requirements.

## Compatibility

The following versions of data-providing systems are supported in this version of IT Security Search:

- InTrust 11.3.1, 11.3, 11.2
- Change Auditor 6.9.5, 6.9.4, 6.9.3, 6.9.2, 6.9.1, 6.9, 6.8, 6.7
- Enterprise Reporter 3.0, 2.6, 2.5.1
- Recovery Manager for Active Directory 9.0.1, 9.0, 8.8.1, 8.8, 8.7.1, 8.7
- Active Roles 7.2.1, 7.2, 7.1, 7.0

## Software Requirements

- Operating system:
  - Microsoft Windows Server 2016
  - Microsoft Windows Server 2012 R2
  - Microsoft Windows Server 2012
  - Microsoft Windows Server 2008 R2

- Additional software:
  - Microsoft .NET Framework 4.6.2 or later
  - Microsoft Windows PowerShell 3.0 or later
  - Microsoft SQL Server 2012 or later (all editions)  
This is a requirement of the IT Security Search Warehouse component, which needs it for internal configuration management.
- Additional requirements for the Recovery Manager for Active Directory connector:
  - Enable remote commands in Windows PowerShell. For details, see <https://technet.microsoft.com/en-us/magazine/ff700227.aspx>.
  - The PowerShell script execution policy must be set to **RemoteSigned**. Run the following cmdlet:  
`Set-ExecutionPolicy RemoteSigned`
- Additional requirements for the Active Roles connector:
  - Active Roles Management Tools
  - The PowerShell script execution policy must be set to **RemoteSigned**.

## Browser Compatibility

The IT Security Search Web interface works correctly with the following browsers:

- Microsoft Edge
- Microsoft Internet Explorer 11
- Google Chrome 40.0 or later
- Mozilla Firefox 35.0 or later

The minimum supported monitor resolution is 1024x768.

## Hardware Requirements

- CPU: Quad-core; recommended: Intel Xeon E5-2670 v2 (Ivy Bridge) and 8–16 logical CPU cores
- RAM: 6GB minimum; 15GB or more recommended
- Disk: 100GB (SSD recommended); disk space requirements are very dependent on the volume of Enterprise Reporter data being processed, because the index size varies proportionally; the indexes for Change Auditor and InTrust data do not consume any disk space on the IT Security Search computer, because they are located in the data stores used by these systems
- If you deploy on a virtual machine, make sure the CPU and memory requirements above are met, and do not overload the virtual machine host

To find out the disk requirements for IT Security Search installation, consider the table below. It shows how much disk space is used for indexing in a sample environment with 10000 of each type of object. Scale the values according to your own circumstances.

Object type	Size of an index entry	Number of objects	Size of the index
Users	2KB	10000	20MB

Object type	Size of an index entry	Number of objects	Size of the index
Groups	2.5KB	10000	25MB
Computers	1KB	10000	10MB
Shares	1KB	10000	10MB
Files	0.2KB	10000	2MB
Total		50000	67MB

To display events rather than objects, IT Security Search uses the built-in indexes in InTrust and Change Auditor data stores.

## Where to Install

It is recommended that you install IT Security Search in the same domain as the servers of your data-providing systems: InTrust, Enterprise Reporter, Change Auditor, Recovery Manager for Active Directory and Active Roles. Do not install IT Security Search on any of those systems' servers.

## Product licensing

This product does not require licensing.

## Upgrade and installation instructions

### Installation instructions

To set up IT Security Search, run the **ITSearchSuite.exe**. You can customize the installation path and the port that will be used for getting data.

During setup, you may also choose to participate in the Quest Software Improvement Program. For details, see [Feedback on IT Security Search](#).

### Upgrade instructions

Upgrade is supported for IT Security Search 11.3.1, 11.3, 11.2.1, 11.2 and 11.1.

To upgrade IT Security Search, simply install the new version on top of the previous one.

## More resources

Additional information is available from [online product documentation](#).



# Globalization

This release is Unicode-enabled and supports any character set. It supports simultaneous operation with multilingual data. This release is targeted to support operations in the following regions: North America, Western Europe and Latin America, Central and Eastern Europe, Far-East Asia, Japan.

## We are more than just a name

We are on a quest to make your information technology work harder for you. That is why we build community-driven software solutions that help you spend less time on IT administration and more time on business innovation. We help you modernize your data center, get you to the cloud quicker and provide the expertise, security and accessibility you need to grow your data-driven business. Combined with Quest's invitation to the global community to be a part of its innovation, and our firm commitment to ensuring customer satisfaction, we continue to deliver solutions that have a real impact on our customers today and leave a legacy we are proud of. We are challenging the status quo by transforming into a new software company. And as your partner, we work tirelessly to make sure your information technology is designed for you and by you. This is our mission, and we are in this together. Welcome to a new Quest. You are invited to Join the Innovation™.

## Our brand, our vision. Together.

Our logo reflects our story: innovation, community and support. An important part of this story begins with the letter Q. It is a perfect circle, representing our commitment to technological precision and strength. The space in the Q itself symbolizes our need to add the missing piece — you — to the community, to the new Quest.

## Contacting Quest

For sales or other inquiries, visit [www.quest.com/contact](http://www.quest.com/contact).

## Technical support resources

Technical support is available to Quest customers with a valid maintenance contract and customers who have trial versions. You can access the Quest Support Portal at <https://support.quest.com>.

The Support Portal provides self-help tools you can use to solve problems quickly and independently, 24 hours a day, 365 days a year. The Support Portal enables you to:

- Submit and manage a Service Request
- View Knowledge Base articles
- Sign up for product notifications
- Download software and technical documentation
- View how-to-videos
- Engage in community discussions
- Chat with support engineers online
- View services to assist you with your product

## Third-party contributions

This product contains the following third-party components. For third-party license information, go to <http://www.quest.com/legal/license-agreements.aspx>. Source code for components marked with an asterisk (\*) is available at <https://opensource.quest.com>.

**Table 8: List of Third-Party Contributions**

Component	License and/or Acknowledgement
Angular.js 1.5.3	MIT Copyright (c) 2010-2017 Google, Inc. <a href="http://angularjs.org">http://angularjs.org</a>
angular-file-upload 1.1.5	MIT Copyright (c) 2013 nerv. <a href="https://github.com/nervgh">https://github.com/nervgh</a>
angular-timer 1.1.9	MIT Copyright (c) 2013 Siddique Hameed
angular-translate 2.6.1	MIT Copyright (c) <2015> <pascal.precht@gmail.com>
angular-ui-bootstrap 0.11.0	MIT Copyright (c) 2012-2017 the AngularUI Team, <a href="https://github.com/organizations/angular-ui/teams/291112">https://github.com/organizations/angular-ui/teams/291112</a>
angular-ui-utils 0.0.3	MIT Copyright (c) 2015 the AngularUI Team, <a href="http://angular-ui.github.com">http://angular-ui.github.com</a>
Bootstrap 3.1.1	MIT Copyright (c) 2011-2016 Twitter, Inc.
Castle.Core 4.0.0	Apache 2.0 Copyright 2004-2017 Castle Project - <a href="http://www.castleproject.org/">http://www.castleproject.org/</a>
CommandLineParser 1.9.71	MIT copyright 2005-2012 Giacomo Stelluti Scala
Community MSI Extensions 1.4*	Eclipse Public License 1.0 Copyright (c) Application Security Inc. and Contributors
CsQuery 1.3.4	MIT Copyright (c) 2012 James Treworgy
CsvHelper 2.16.3	Microsoft Public License (Ms-PL) 1.0 Copyright 2009-2016 Josh Close and Contributors
daterangepicker 2.1.25	MIT Copyright (c) 2012-2017 Dan Grossman
ElasticSearch 2.0.0	Apache 2.0 Copyright 2009-2011 ElasticSearch and Shay Banon This product includes software developed by The Apache Software Foundation ( <a href="http://www.apache.org/">http://www.apache.org/</a> ).

Component	License and/or Acknowledgement
Elasticsearch.Net 2.5.4	License is here: <a href="https://github.com/elasticsearch/elasticsearch/blob/master/LICENSE.txt">https://github.com/elasticsearch/elasticsearch/blob/master/LICENSE.txt</a>
HighCharts 3.0.4	Apache 2.0 Highsoft Solutions AS OEM License Agreement 2.0 (c) 2009-2013 Torstein Hønsi
Java SE 7	javase-7 Java SE 7 (JRE) Copyright 2000-2005 INRIA, France Telecom. All rights reserved. Copyright 1999 by CoolServlets.com. Copyright 1995-2005 The Cryptix Foundation Limited. All rights reserved. Copyright 1996-1999 by Scott Hudson, Frank Flannery, C. Scott Ananian Copyright 2001,2003 Keith Packard Copyright 2002 Graz University of Technology. All rights reserved. Copyright 1995-2010 International Business Machines Corporation and others copyright 1991-1998, Thomas G. Lane. Copyright 2004-2009 Paul R. Holser, Jr. Copyright 1999 IBM Corp. All Rights Reserved. Copyright 1997 The Open Group Research Institute. All rights reserved. Copyright 1998 FundsXpress, INC. All rights reserved. Copyright 2007 The Khronos Group Inc. Copyright 1998 – 2002, 2004, 2006-2007 Glenn Randers-Pehrson Copyright 1996, 1997 Andreas Dilger Copyright 1995, 1996 Guy Eric Schalnat, Group 42, Inc. Copyright 1997 Eric S. Raymond Copyright 1998-2010 Marti Maria Saguer Copyright 1999-2002 Brian Paul All Rights Reserved. Copyright 1999-2004 David Corcoran Copyright 1999-2004 Ludovic Rousseau All rights reserved. Copyright Kohsuke Kawaguchi Copyright 2000-2003 Daisuke Okajima & Kohsuke Kawaguchi. All rights reserved. Copyright 1982 The Royal Institute, Thai Royal Government. Copyright 1998 National Electronics and Computer Technology Center, National Science and Technology Development Agency, Ministry of Science Technology and Environment, Thai Royal Government.

Component	License and/or Acknowledgement
	<p>Copyright 1991-2011 Unicode, Inc. All rights reserved.</p> <p>Copyright 1996-2000 Markus Franz Xaver Johannes Oberhumer Laszlo Molnar</p> <p>Copyright 1994-2004 The XFree86 Project, Inc. All rights reserved.</p> <p>Copyright 1993 The Regents of the University of California. All rights reserved.</p> <p>Copyright 2003 The NetBSD Foundation, Inc. All rights reserved.</p> <p>Copyright 1994-1999 Theodore Ts'o,. All rights reserved.</p> <p>Copyright 1995,1999 Theo de Raadt. All rights reserved.</p> <p>Copyright 2001-2002 Damien Miller. All rights reserved.</p> <p>Copyright 1998 Todd C. Miller</p> <p>Copyright 2001-2004 Thomas Winischhofer</p> <p>Copyright 1996 NVIDIA, Corp. All rights reserved.</p> <p>Copyright 1991-9 Silicon Graphics, Inc. All Rights Reserved.</p> <p>Copyright 2003 Bitstream, Inc. All Rights Reserved.</p> <p>Copyright 1995-2005 Jean-loup Gailly and Mark Adler</p> <p>This product includes software developed by IAIK of Graz University of Technology.</p> <p>This software is based in part on the work of the Independent JPEG Group.</p> <p>Portions Copyright Eastman Kodak Company 1992</p> <p>Portions licensed from Taligent, Inc.</p>
JetBrains.Annotations.Redist 7.1.0	<p>Apache 2.0</p> <p>Copyright 2007-2012 JetBrains s.r.o.</p>
jQuery 2.1.3	<p>MIT</p> <p>Copyright 2017 The jQuery Foundation</p>
jQuery Form Plugin 3.50.0	<p>MIT</p> <p>Copyright (c) 2013 M. Alsup</p>
jquery.fileDownload 1.4.3	<p>MIT</p> <p>Copyright (c) 2013 - John Culviner</p>
jquery-cookie 1.4.1	<p>MIT</p> <p>Copyright 2013 Klaus Hartl</p>
Kendo UI Web 2014.3.1316	<p>Kendo UI Web</p> <p>Copyright 2013 Telerik AD. All rights reserved.</p>
keycloak-js-bower 3.2	<p>Apache 2.0</p> <p>Copyright 2017 Red Hat</p>
Linq2Rest 4.1.0	<p>Microsoft Public License (Ms-PL) 1.0</p>

Component	License and/or Acknowledgement
	Copyright © Reimers.dk 2014
Log4Net 2.0.8	Apache 2.0 Copyright 2004-2017 The Apache Software Foundation
Lucene.Net 3.0.3	Apache 2.0 Copyright 2013 The Apache Software Foundation
Lucene.Net.Contrib 3.0.3	Apache 2.0 Copyright 2013 The Apache Software Foundation
Microsoft.Bcl 1.1.10	Microsoft .NET Library 1.0
Microsoft.Bcl.Build 1.0.21	Microsoft .NET Library 1.0
Microsoft.Net.Http 2.2.29	Microsoft .NET Library 1.0
Microsoft.Owin 3.1.0	Microsoft.Owin 1
Microsoft.Owin.Host.HttpListener 3.1.0	Microsoft.Owin 1
Microsoft.Owin.Hosting 3.1.0	Microsoft .NET Library 1.0
Moment.js 2.10.6	MIT
Nancy 1.4.3	MIT Copyright (c) 2010 Andreas Håkansson, Steven Robbins and contributors
Nancy.Boostsrapers.Ninject 1.4.1	MIT Copyright (c) 2010 Andreas Håkansson, Steven Robbins and contributors
Nancy.Owin 1.4.1	MIT Copyright (c) 2010 Andreas Håkansson, Steven Robbins and contributors
Nancy.Serialization.JsonNet 1.4.1	MIT Copyright © 2010 Andreas Håkansson, Steven Robbins and contributors
NEST 2.5.4	Apache 2.0 © 2016. All Rights Reserved - Elasticsearch
Newtonsoft.Json.dll 10.0.2	MIT Copyright (c) 2007 James Newton-King
Ninject 3.2.2	Apache 2.0 Copyright 2007-2012 Ninject Project Contributors
Ninject.Extensions.ChildKernel	Apache 2.0

<b>Component</b>	<b>License and/or Acknowledgement</b>
3.2.0	Copyright 2009-2012 Ninject Project Contributors
Outdated Browser 1.0.2	MIT Copyright (c) 2014 burocratik
Owin 1.0.0	Apache 2.0 Copyright 2012 OWIN contributors
PDFsharp 1.32	MIT Copyright (c) 2005-2014 empira Software GmbH, Troisdorf (Germany)
SharpZipLib 0.86	SharpZipLib
SmartFormat.NET 2.0.0	MIT 1.0 Copyright (c) 2015 - Scott Rippey
System.Management.Automation.dll 10.0.10586.0	Microsoft .NET Library 1.0
Underscore.js 1.7	MIT (c) 2009-2014 Jeremy Ashkenas, DocumentCloud and Investigative Reporters & Editors
Windows Installer XML Toolset (aka WiX) 3.11	Microsoft Reciprocal License (MS-RL) Copyright (c) Outercurve Foundation
ZetaLongPaths 1.0.0.17	MIT Copyright (c) 2009-2017 Zeta Software GmbH

## Licenses

### Apache 2.0

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

## Eclipse Public License - v 1.0

THE ACCOMPANYING PROGRAM IS PROVIDED UNDER THE TERMS OF THIS ECLIPSE PUBLIC LICENSE ("AGREEMENT"). ANY USE, REPRODUCTION OR DISTRIBUTION OF THE PROGRAM CONSTITUTES RECIPIENT'S ACCEPTANCE OF THIS AGREEMENT.

### 1. DEFINITIONS

"Contribution" means:

- a) in the case of the initial Contributor, the initial code and documentation distributed under this Agreement, and
- b) in the case of each subsequent Contributor:

- i) changes to the Program, and
- ii) additions to the Program;

where such changes and/or additions to the Program originate from and are distributed by that particular Contributor. A Contribution 'originates' from a Contributor if it was added to the Program by such Contributor itself or anyone acting on such Contributor's behalf. Contributions do not include additions to the Program which: (i) are separate modules of software distributed in conjunction with the Program under their own license agreement, and (ii) are not derivative works of the Program.

"Contributor" means any person or entity that distributes the Program.

"Licensed Patents" mean patent claims licensable by a Contributor which are necessarily infringed by the use or sale of its Contribution alone or when combined with the Program.

"Program" means the Contributions distributed in accordance with this Agreement.

"Recipient" means anyone who receives the Program under this Agreement, including all Contributors.

### 2. GRANT OF RIGHTS

a) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free copyright license to reproduce, prepare derivative works of, publicly display, publicly perform, distribute and sublicense the Contribution of such Contributor, if any, and such derivative works, in source code and object code form.

b) Subject to the terms of this Agreement, each Contributor hereby grants Recipient a non-exclusive, worldwide, royalty-free patent license under Licensed Patents to make, use, sell, offer to sell, import and otherwise transfer the Contribution of such Contributor, if any, in source code and object code form. This patent license shall apply to the combination of the Contribution and the Program if, at the time the Contribution is added by the Contributor, such addition of the Contribution causes such combination to be covered by the Licensed Patents. The patent license shall not apply to any other combinations which include the Contribution. No hardware per se is licensed hereunder.

c) Recipient understands that although each Contributor grants the licenses to its Contributions set forth herein, no assurances are provided by any Contributor that the Program does not infringe the patent or other intellectual property rights of any other entity. Each Contributor disclaims any liability to Recipient for claims

brought by any other entity based on infringement of intellectual property rights or otherwise. As a condition to exercising the rights and licenses granted hereunder, each Recipient hereby assumes sole responsibility to secure any other intellectual property rights needed, if any. For example, if a third party patent license is required to allow Recipient to distribute the Program, it is Recipient's responsibility to acquire that license before distributing the Program.

d) Each Contributor represents that to its knowledge it has sufficient copyright rights in its Contribution, if any, to grant the copyright license set forth in this Agreement.

### 3. REQUIREMENTS

A Contributor may choose to distribute the Program in object code form under its own license agreement, provided that:

a) it complies with the terms and conditions of this Agreement; and

b) its license agreement:

i) effectively disclaims on behalf of all Contributors all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose;

ii) effectively excludes on behalf of all Contributors all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits;

iii) states that any provisions which differ from this Agreement are offered by that Contributor alone and not by any other party; and

iv) states that source code for the Program is available from such Contributor, and informs licensees how to obtain it in a reasonable manner on or through a medium customarily used for software exchange.

When the Program is made available in source code form:

a) it must be made available under this Agreement; and

b) a copy of this Agreement must be included with each copy of the Program.

Contributors may not remove or alter any copyright notices contained within the Program.

Each Contributor must identify itself as the originator of its Contribution, if any, in a manner that reasonably allows subsequent Recipients to identify the originator of the Contribution.

### 4. COMMERCIAL DISTRIBUTION

Commercial distributors of software may accept certain responsibilities with respect to end users, business partners and the like. While this license is intended to facilitate the commercial use of the Program, the Contributor who includes the Program in a commercial product offering should do so in a manner which does not create potential liability for other Contributors. Therefore, if a Contributor includes the Program in a commercial product offering, such Contributor ("Commercial Contributor") hereby agrees to defend and indemnify every other Contributor ("Indemnified Contributor") against any losses, damages and costs (collectively "Losses") arising from claims, lawsuits and other legal actions brought by a third party against the Indemnified Contributor to the extent caused by the acts or omissions of such Commercial Contributor in connection with its distribution of the Program in a commercial product offering. The obligations in this section do not apply to any claims or Losses relating to any actual or alleged intellectual property infringement. In order to qualify, an Indemnified Contributor must: a) promptly notify the Commercial Contributor in writing of such claim, and b) allow the Commercial Contributor to control, and cooperate with the Commercial Contributor in, the defense and any related settlement negotiations. The Indemnified Contributor may participate in any such claim at its own expense.

For example, a Contributor might include the Program in a commercial product offering, Product X. That Contributor is then a Commercial Contributor. If that Commercial Contributor then makes performance claims, or offers warranties related to Product X, those performance claims and warranties are such Commercial Contributor's responsibility alone. Under this section, the Commercial Contributor would have to defend claims against the other Contributors related to those performance claims and warranties, and if a court requires any other Contributor to pay any damages as a result, the Commercial Contributor must pay those damages.

## 5. NO WARRANTY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, THE PROGRAM IS PROVIDED 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. Each Recipient is solely responsible for determining the appropriateness of using and distributing the Program and assumes all risks associated with its exercise of rights under this Agreement, including but not limited to the risks and costs of program errors, compliance with applicable laws, damage to or loss of data, programs or equipment, and unavailability or interruption of operations.

## 6. DISCLAIMER OF LIABILITY

EXCEPT AS EXPRESSLY SET FORTH IN THIS AGREEMENT, NEITHER RECIPIENT NOR ANY CONTRIBUTORS SHALL HAVE ANY LIABILITY FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS), 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 OR DISTRIBUTION OF THE PROGRAM OR THE EXERCISE OF ANY RIGHTS GRANTED HEREUNDER, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

## 7. GENERAL

If any provision of this Agreement is invalid or unenforceable under applicable law, it shall not affect the validity or enforceability of the remainder of the terms of this Agreement, and without further action by the parties hereto, such provision shall be reformed to the minimum extent necessary to make such provision valid and enforceable.

If Recipient institutes patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Program itself (excluding combinations of the Program with other software or hardware) infringes such Recipient's patent(s), then such Recipient's rights granted under Section 2(b) shall terminate as of the date such litigation is filed.

All Recipient's rights under this Agreement shall terminate if it fails to comply with any of the material terms or conditions of this Agreement and does not cure such failure in a reasonable period of time after becoming aware of such noncompliance. If all Recipient's rights under this Agreement terminate, Recipient agrees to cease use and distribution of the Program as soon as reasonably practicable. However, Recipient's obligations under this Agreement and any licenses granted by Recipient relating to the Program shall continue and survive.

Everyone is permitted to copy and distribute copies of this Agreement, but in order to avoid inconsistency the Agreement is copyrighted and may only be modified in the following manner. The Agreement Steward reserves the right to publish new versions (including revisions) of this Agreement from time to time. No one other than the Agreement Steward has the right to modify this Agreement. The Eclipse Foundation is the initial Agreement Steward. The Eclipse Foundation may assign the responsibility to serve as the Agreement Steward to a suitable separate entity. Each new version of the Agreement will be given a distinguishing version number. The Program (including Contributions) may always be distributed subject to the version of the Agreement under which it was received. In addition, after a new version of the Agreement is published, Contributor may elect to distribute the Program (including its Contributions) under the new version. Except as expressly stated in Sections 2(a) and 2(b) above, Recipient receives no rights or licenses to the intellectual property of any Contributor under this Agreement, whether expressly, by implication, estoppel or otherwise. All rights in the Program not expressly granted under this Agreement are reserved.

This Agreement is governed by the laws of the State of New York and the intellectual property laws of the United States of America. No party to this Agreement will bring a legal action under this Agreement more than one year after the cause of action arose. Each party waives its rights to a jury trial in any resulting litigation.

## **GPL (GNU General Public License) 2.0**

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C) 1989, 1991 Free Software Foundation, Inc.

51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

#### Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the

program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all. The precise terms and conditions for copying, distribution and modification follow.

## GNU GENERAL PUBLIC LICENSE

### TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you". Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such

interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it. Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:

- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)



The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.

5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.

6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.

7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot

distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free

programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

#### NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

As a special exception, you may use this file as part of a free software library without restriction. Specifically, if other files instantiate templates or use macros or inline functions from this file, or you compile this file and link it with other files to produce an executable, this file does not by itself cause the resulting executable to be covered by the GNU General Public License. This exception does not however invalidate any other reasons why the executable file might be covered by the GNU General Public License.

END OF TERMS AND CONDITIONS

## **Microsoft Reciprocal License (MS-RL)**

This license governs use of the accompanying software. If you use the software, you accept this license. If you do not accept the license, do not use the software.

### 1. Definitions

The terms "reproduce," "reproduction," "derivative works," and "distribution" have the same meaning here as under U.S. copyright law.

A "contribution" is the original software, or any additions or changes to the software.

A "contributor" is any person that distributes its contribution under this license.

"Licensed patents" are a contributor's patent claims that read directly on its contribution.

## 2. Grant of Rights

(A) Copyright Grant- Subject to the terms of this license, including the license conditions and limitations in section 3, each contributor grants you a non-exclusive, worldwide, royalty-free copyright license to reproduce its contribution, prepare derivative works of its contribution, and distribute its contribution or any derivative works that you create.

(B) Patent Grant- Subject to the terms of this license, including the license conditions and limitations in section 3, each contributor grants you a non-exclusive, worldwide, royalty-free license under its licensed patents to make, have made, use, sell, offer for sale, import, and/or otherwise dispose of its contribution in the software or derivative works of the contribution in the software.

## 3. Conditions and Limitations

(A) Reciprocal Grants- For any file you distribute that contains code from the software (in source code or binary format), you must provide recipients the source code to that file along with a copy of this license, which license will govern that file. You may license other files that are entirely your own work and do not contain code from the software under any terms you choose.

(B) No Trademark License- This license does not grant you rights to use any contributors' name, logo, or trademarks.

(C) If you bring a patent claim against any contributor over patents that you claim are infringed by the software, your patent license from such contributor to the software ends automatically.

(D) If you distribute any portion of the software, you must retain all copyright, patent, trademark, and attribution notices that are present in the software.

(E) If you distribute any portion of the software in source code form, you may do so only under this license by including a complete copy of this license with your distribution. If you distribute any portion of the software in compiled or object code form, you may only do so under a license that complies with this license.

(F) The software is licensed "as-is." You bear the risk of using it. The contributors give no express warranties, guarantees or conditions. You may have additional consumer rights under your local laws which this license cannot change. To the extent permitted under your local laws, the contributors exclude the implied warranties of merchantability, fitness for a particular purpose and non-infringement.

## SharpZipLib

### License

The library is released under the GPL with the following exception:

Linking this library statically or dynamically with other modules is making a combined work based on this library. Thus, the terms and conditions of the GNU General Public License cover the whole combination.

As a special exception, the copyright holders of this library give you permission to link this library with independent modules to produce an executable, regardless of the license terms of these independent modules, and to copy and distribute the resulting executable under terms of your choice, provided that you also meet, for each linked independent module, the terms and conditions of the license of that module. An independent module is a module which is not derived from or based on this library. If you modify this library, you may extend this exception to your version of the library, but you are not obligated to do so. If you do not wish to do so, delete this exception statement from your version.

Note The exception is changed to reflect the latest GNU Classpath exception. Older versions of #ziplib did have another exception, but the new one is clearer and it doesn't break compatibility with the old one.

Bottom line In plain English this means you can use this library in commercial closed-source applications.

© 2018 Quest Software Inc. ALL RIGHTS RESERVED.

This guide contains proprietary information protected by copyright. The software described in this guide is furnished under a software license or nondisclosure agreement. This software may be used or copied only in accordance with the terms of the applicable agreement. No part of this guide may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording for any purpose other than the purchaser's personal use without the written permission of Quest Software Inc.

The information in this document is provided in connection with Quest Software products. No license, express or implied, by estoppel or otherwise, to any intellectual property right is granted by this document or in connection with the sale of Quest Software products. EXCEPT AS SET FORTH IN THE TERMS AND CONDITIONS AS SPECIFIED IN THE LICENSE AGREEMENT FOR THIS PRODUCT, QUEST SOFTWARE ASSUMES NO LIABILITY WHATSOEVER AND DISCLAIMS ANY EXPRESS, IMPLIED OR STATUTORY WARRANTY RELATING TO ITS PRODUCTS INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT. IN NO EVENT SHALL QUEST SOFTWARE BE LIABLE FOR ANY DIRECT, INDIRECT, CONSEQUENTIAL, PUNITIVE, SPECIAL OR INCIDENTAL DAMAGES (INCLUDING, WITHOUT LIMITATION, DAMAGES FOR LOSS OF PROFITS, BUSINESS INTERRUPTION OR LOSS OF INFORMATION) ARISING OUT OF THE USE OR INABILITY TO USE THIS DOCUMENT, EVEN IF QUEST SOFTWARE HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Quest Software makes no representations or warranties with respect to the accuracy or completeness of the contents of this document and reserves the right to make changes to specifications and product descriptions at any time without notice. Quest Software does not make any commitment to update the information contained in this document.

If you have any questions regarding your potential use of this material, contact:

Quest Software Inc.

Attn: LEGAL Dept

4 Polaris Way

Aliso Viejo, CA 92656

Refer to our Web site (<https://www.quest.com>) for regional and international office information.



### Patents

Quest Software is proud of our advanced technology. Patents and pending patents may apply to this product. For the most current information about applicable patents for this product, please visit our website at <https://www.quest.com/legal>.

### Trademarks

Quest, the Quest logo, and Join the Innovation are trademarks and registered trademarks of Quest Software Inc. For a complete list of Quest marks, visit <https://www.quest.com/legal/trademark-information.aspx>. All other trademarks and registered trademarks are property of their respective owners.

### Legend

-  **CAUTION:** A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.
-  **IMPORTANT, NOTE, TIP, MOBILE, or VIDEO:** An information icon indicates supporting information.

IT Security Search Release Notes

Updated - March 2018

Version - 11.3.2