

# Safeguard Authentication Services 5.0.7

## Release Notes

**07 June 2022, 14:26**

These release notes provide information about the Safeguard Authentication Services 5.0.7 release. For the most recent documents and product information, see [Safeguard Authentication Services - Technical Documentation](#).

### About this release

Safeguard Authentication Services extends the capabilities of UNIX, Linux, and Mac systems to seamlessly and transparently join Active Directory and integrate Unix identities with Active Directory Windows accounts.

Safeguard Authentication Services 5.0.7 is a minor release that includes various bug and stability fixes. See [Resolved issues](#) for a list of fixes included in this release.

### End of support notice

After careful consideration, One Identity has decided to cease the development of the Management Console for Unix (MCU). Therefore, the MCU will enter limited support for all versions on April 1, 2021. Support for all versions will reach end of life on Nov 1, 2021. For definitions of support, see the [Software Product Support Lifecycle Policy](#).

As One Identity retires the MCU, we are building its feature set into modern platforms starting with Software Distribution and Profiling. Customers that use the MCU to deploy Authentication Services and Safeguard for Sudo can now use our Ansible collections for those products, which can be found at [Ansible Galaxy](#).

# New features

## New features in version 5.0

### Ansible support (224151)

Infrastructure Administrators can use Ansible 2.9 or later for the following functions, including generating reports.

- Install, upgrade, and uninstall Safeguard Authentication Services (SAS) software packages and create reports to summarize software deploy status
- Configure and join Safeguard Authentication Services to my AD domain including:
  - Perform preflight checks
  - Modify `vas.conf`
  - Modify `users/groups.allow` and `users/groups.deny`
  - Modify user/group overrides
  - Join/unjoin SAS from domain
  - Create reports to summarize configure/join status

### Authentication Services Ansible Collection

The One Identity Authentication Services Ansible Collection, referred to as `ansible-authentication-services`, consists of roles, modules, plugins, report templates, and sample playbooks to automate software deployment, configuration, Active Directory joining, profiling, and report generation for Safeguard Authentication Services. Go to: <https://github.com/OneIdentity/ansible-authentication-services>.

### Ansible details

For Ansible information consult:

- [GitHub ansible/ansible](#)
- [Ansible Documentation](#) (includes Tower)

**NOTE:** One Identity open source projects are supported through [One Identity GitHub issues](#) and the [One Identity Community](#). This includes all scripts, plugins, SDKs, modules, code snippets or other solutions. For assistance with any One Identity GitHub project, please raise a new Issue on the [One Identity GitHub project](#) page. You may also visit the [One Identity Community](#) to ask questions. Requests for assistance made through official One Identity Support will be referred back to GitHub and the One Identity Community forums where those requests can benefit all users.

### Explicit mapping of users to valid certificates (smart card) (198067)

Mapping certificates to users can be done implicitly or explicitly. Authentication Services supports mapping one cert to one user or mapping multiple certs to one user. Mapping one cert to multiple users is not supported. For details, see the *Smart Cards Administration Guide*, Map certificate to user (implicit and explicit).

### Group policy updates (198055)

Safeguard Authentication Services can apply additional policies to Unix systems:

- mac OS X policies are updated
- Privileged Manager Policies are updated

### License validator (198066)

New licenses have to be added prior to upgrading to version 5.0. If you have a mixed environment with some clients running on 5.0 and some running on an older version, you will need to have both licenses available.

**CAUTION:** If you upgrade Safeguard for Authentication Services before adding the license, the caches will empty and SAS will be unusable. You can add the license then either rejoin or restart vasd and run vastool flush. You can update the Control Center any time without issue.

Windows Administrators can load the Safeguard Authentication Services license into Active Directory.

Unix Administrators must have a current license.

### macOS: Added functionality (198050)

The following functionality was added for macOS platforms. For additional information, see [KB 322901](#).

- Installation is from the One Identity Support page.
- In Application Properties, an Options tab has been added to control App Store and Game Center settings. For example, you can choose to allow software update notifications.
- In Media Access Properties, there are two new settings:
  - Allow AirDrop
  - Allow transfers with Finder or iTunes
- Software Update Properties have been added related to purchasing or installing apps.
- System Preference Properties selection was enhanced.
- Wireless Profile Properties now include the ability to use hidden networks, auto join networks, proxies, protocol configurations, and authentication. This policy also works with vascert to provide a certificate that can be used to join a network.

### Support for unattended join using Windows Offline Domain Join (ODJ) credentials (198057)

An Administrator can use a Windows Offline Domain Join (ODJ) credential instead of a keytab for scripting an unattended installation of Safeguard Authentication Services to enhance security.

There must be connectivity from the Unix machine to domain controllers. When using this method of joining AD, the [domain] is not needed on the vastool join command, nor credentials. That information will come from the file. More information is in the vastool man page.

The join can work in the following ways:

- `vastool join -j <path to the offline join file>`
- `vastool join` and use the ENV option `AUTHENTICATION_SERVICES_DJOIN_FILE` set to the location of a valid djoin file.
- `vastool join` and `/tmp/AUTHENTICATION_SERVICES_DJOIN` file will be used if that file exists, and is a valid djoin file.

For more information, see `vastool` man page and search for djoin.

## Resolved issues

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

**Table 1: General resolved issues in version 5.0.7**

Resolved Issue	Issue ID
<p><code>vgptool</code> crashed when root <code>su-d</code> to a user without logging in with the user first.</p> <p><code>vgptool</code> tried to access a non-existing file and crashed when root <code>su-d</code> to a user without logging in with the user first. It has been fixed, <code>vgptool</code> now does not crash even with new users.</p>	304825
<p><code>vgptool</code> sends new and unnecessary messages to syslog.</p> <p>New and unnecessary <code>vgptool</code> messages have been removed, passwordless login does not always run <code>vgptool</code>.</p>	306094
<p>In workstation mode (optional mode), the new user was not given access on the initial login.</p> <p>After the fix, the new user is granted access on the initial login.</p>	307283
<p>SAS could overwhelm Domain Controllers (DCs) on a normal update of a group.</p> <p>SAS did a Distinguished Name (DN) based update for each cached group that has the same group identity (GID). This was greatly multiplying the queries to Active Directory (AD) on a normal update of a group. After the fix, there is no secondary updates on GID conflicted groups.</p>	307288
<p>On Redhat systems, unconfiguring <code>authselect</code> could fail if there were no active profile during the configuration.</p> <p>On a Redhat system, when <code>authselect</code> had no current profile selected, <code>authselect</code> configuration succeeded, but stored the previous profile wrongly, meaning that <code>authselect</code> unconfigure has failed (for example, during an unjoin process), and the system could not be cleanly restored to its original state.</p>	307955
<p>The <code>vastool status</code> command has to generate better output for <code>authselect</code> failures.</p>	307976

Resolved Issue	Issue ID
The <code>vastool status</code> command now generates better output for <code>authselect</code> failures.	
On recent AIX, DB2 can crash in certain edge cases due to thread safety issues. To prevent crashing, AIX LAM code has been modified.	307979
On AIX, <code>vasd</code> crashed when a group name contained parentheses and the group name was listed in the <code>users.allow</code> file. After the fix, parentheses in group names no longer cause problems.	309631

## Supported platforms

The following table provides a list of supported Unix and Linux platforms for Safeguard Authentication Services.

**CAUTION:** In Safeguard Authentication Services version 5.1, support for the following Linux platforms and architectures will be deprecated:

- **Linux platforms**
  - **CentOS Linux 5**
  - **Oracle Enterprise (OEL) Linux 5**
  - **Red Hat Enterprise Linux (RHEL) 5**
- **Linux architectures**
  - **IA-64**
  - **s390**

**Make sure that you prepare your system for an upgrade to a supported Linux platform and architecture, so that you can upgrade to Safeguard Authentication Services version 5.1 when it is released.**

**Table 2: Unix agent: Supported platforms**

Platform	Version	Architecture
Alma Linux	8	x86_64, AARCH64, PPC64le
Amazon Linux	AMI, 2	x86_64
Apple MacOS	10.14 or later	x86_64, ARM64
CentOS Linux	5, 6, 7, 8	Current Linux architectures: s390, s390x, PPC64, PPC64le, IA-64, x86, x86_64,

Platform	Version	Architecture
		AARCH64
CentOS Stream	8	x86_64,
Debian	Current supported releases	x86_64, x86, AARCH64
Fedora Linux	Current supported releases	x86_64, x86, AARCH64
FreeBSD	10.x, 11.x, 12.x	x32, x64
HP-UX	11.31	PA, IA-64
IBM AIX	6.1, 7.1, 7.2	Power 4+
OpenSUSE	Current supported releases	x86_64, x86, AARCH64
Oracle Enterprise Linux (OEL)	5, 6, 7, 8	Current Linux architectures: s390, s390x, PPC64, PPC64le, IA-64, x86, x86_64, AARCH64
Oracle Solaris	10 8/11 (Update 10), 11.x	SPARC, x64
Red Hat Enterprise Linux (RHEL)	5, 6, 7, 8	Current Linux architectures: s390, s390x, PPC64, PPC64le, IA-64, x86, x86_64, AARCH64
Rocky Linux	8	x86_64, AARCH64
SuSE Linux Enterprise Server (SLES)/Workstation	11, 12, 15	Current Linux architectures: s390, s390x, PPC64, PPC64le, IA-64, x86, x86_64, AARCH64
Ubuntu	Current supported releases	x86_64, x86, AARCH64

## System requirements

Before installing Safeguard Authentication Services 5.0.7, ensure that your system meets the minimum hardware and software requirements for your platform. The operating system patch level, hardware, and disk requirements vary by Unix, Linux, and Active

Directory platform, and are detailed in the *One Identity Safeguard Authentication Services Administration Guide*.

**NOTE:** When setting up a virtual environment, carefully consider the configuration aspects such as CPU, memory availability, I/O subsystem, and network infrastructure to ensure the virtual layer has the necessary resources available. Please consult [One Identity's Product Support Policies](#) for more information on environment virtualization.

## Product licensing

Safeguard Authentication Services must be licensed in order for Active Directory users to authenticate on Unix and macOS hosts.

**NOTE:** While you can install and configure Safeguard Authentication Services on Windows and use the included management tools to Unix-enable users and groups in Active Directory without installing a license, you must have a valid Safeguard Authentication Services license installed for full functionality.

**NOTE:** In order to use Starling Two-Factor Authentication with Safeguard Authentication Services, you must have a valid license for Authentication Services with One Identity Hybrid Subscription included.

Upon receiving your license file from One Identity, copy this license file to your desktop or other convenient location.

### ***To add licenses using the Control Center***

1. Open the Control Center and click **Preferences** on the left navigation pane.
2. Expand the **Licensing** section.  
The list box displays all licenses currently installed in Active Directory.
3. Click **Actions | Add a license**.
4. Browse for the license file and click **Open**.  
The license appears in the list box.

### ***To add licenses directly to the Unix systems***

1. Add a valid license file to `/etc/opt/quest/vas/.licenses/` directory.
2. Validate with `/opt/quest/bin/vastool license -i`.

## Upgrade and installation instructions

The process for upgrading the Safeguard Authentication Services Windows components from older versions is similar to the installation process. The Windows installer detects older versions and automatically upgrades them. The next time you launch Active Directory Users and Computers, Safeguard Authentication Services uses the updated Windows

components. Refer to the *One Identity Safeguard Authentication Services Installation Guide* for detailed installation instructions.

Refer to the *One Identity Safeguard Authentication Services Upgrade Guide* for more detailed information about upgrading your current version of Safeguard Authentication Services.

Of course, you may perform your Unix client management tasks from the Unix command line, if you prefer. You can find those instructions in the *One Identity Safeguard Authentication Services Administration Guide*.

## Windows and cloud requirements

The following are the minimum requirements for using Safeguard Authentication Services in your environment.

**Table 3: Authentication Services requirements**

<b>System requirements</b>	
Supported Windows Platforms	<p>Prerequisite Windows software</p> <p>If the following prerequisite is missing, the Safeguard Authentication Services installer suspends the installation process to allow you to download the required component. It then continues the install:</p> <ul style="list-style-type: none"> <li>• Microsoft .NET Framework 4.5</li> </ul> <p>You can install Safeguard Authentication Services on 64-bit editions of the following configurations:</p> <ul style="list-style-type: none"> <li>• Windows Server 2008 R2</li> <li>• Windows Server 2012</li> <li>• Windows Server 2012 R2</li> <li>• Windows Server 2016</li> <li>• Windows Server 2019</li> </ul> <p><b>NOTE:</b> Due to tightened security, when running Safeguard Authentication Services Control Center on Windows 2008 R2 (or later) operating system, functioning as a domain controller, the process must be elevated or you must add authenticated users to the Distributed COM Users group on the computer. As a best practice, One Identity does not recommend that you install or run the Safeguard Authentication Services Windows components on Active Directory domain controllers. The recommended configuration is to install the Safeguard Authentication Services Windows components on an administrative workstation.</p>
Supported	<ul style="list-style-type: none"> <li>• AWS Directory Service for Microsoft Active Directory (also called AWS</li> </ul>

## System requirements

---

cloud services

- Managed Microsoft AD)
- Azure Active Directory Domain Services
- Google Cloud Platform Managed Service for Microsoft Active Directory

## More resources

Additional information is available from the following:

- Online product documentation: <https://support.oneidentity.com/safeguard-authentication-services/technical-documents>
- Unix Access Management Community forum: <https://www.quest.com/community/one-identity/unix-access-management/>

## Globalization

This section contains information about installing and operating this product in non-English configurations, such as those needed by customers outside of North America. This section does not replace the materials about supported platforms and configurations found elsewhere in the product documentation.

This release is Unicode-enabled and supports any character set. In this release, all product components should be configured to use the same or compatible character encodings and should be installed to use the same locale and regional options. 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.

This release has the following known capabilities or limitations: There is no localization.

## About us

One Identity solutions eliminate the complexities and time-consuming processes often required to govern identities, manage privileged accounts and control access. Our solutions enhance business agility while addressing your IAM challenges with on-premises, cloud and hybrid environments.

## Contacting us

For sales and other inquiries, such as licensing, support, and renewals, visit <https://www.oneidentity.com/company/contact-us.aspx>.

## Technical support resources

Technical support is available to One Identity customers with a valid maintenance contract and customers who have trial versions. You can access the Support Portal at <https://support.oneidentity.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 at [www.YouTube.com/OneIdentity](http://www.YouTube.com/OneIdentity)
- Engage in community discussions
- Chat with support engineers online
- View services to assist you with your product

# Third-party contributions

This product contains some third-party components (listed below). Copies of their licenses may be found at referencing <https://www.oneidentity.com/legal/license-agreements.aspx>. Source code for components marked with an asterisk (\*) is available at <http://opensource.quest.com>.

<b>Component</b>	<b>Copyright Notice License</b>
Apache Commons Cli 1.2	Copyright (c) 2000-2014 The Apache Software Foundation. All Rights Reserved. Apache 2.0
Apache Commons Codec 1.4	Copyright (c) 2000-2014 The Apache Software Foundation. All Rights Reserved. Apache 2.0
Apache Commons IO 2.0	Copyright 2002-2012 The Apache Software Foundation Apache 2.0
Apache Commons Lang 2.5	Copyright 2001-2010 The Apache Software Foundation Apache 2.0
bcrypt 4.1	Creative Commons Zero (CC0) 1
Boost 1.34	Boost 1.0
Boost 1.48	Boost 1.0
Boost 1.50	Boost 1.0
Boost 1.53	Boost 1.0
Boost 1.54	Boost 1.0
Boost 1.66	Boost 1.0
Boost 1.67	Boost 1.0
Boost 1.71	Boost 1.0
Boost 1.76	Boost 1.0
Codejock Property Grid 11.22	Codejock Property Grid 11.22
Heimdal Krb/GSSapi 1.2	Heimdal Krb/GSSapi 1.2

<b>Component</b>	<b>Copyright Notice License</b>
InstallShield 2009	InstallShield 2009
jansson 2.0.1	Copyright (c) 2009-2011 Petri Lehtinen petri@digip.org MIT N/A
Jansson 2.12	MIT N/A
Json.NET 9.0.30729	MIT 1.0
Json-lib 2.1	Artistic License 1.0
libexpat 2.0.1	Copyright (c) 1998, 1999, 2000 Thai Open Source Software Center Ltd and Clark Cooper  Copyright (c) 2001, 2002, 2003 Expat maintainers.  The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.  MIT 1.0
RapidJSON 1.1.0	Copyright (C) 2015 THL A29 Limited, a Tencent company, and Milo Yip. All rights reserved.  MIT N/A
SQLite 3.6.23	SQLite 3.6.1
WTL 9.1	Microsoft Public License (Ms-PL) 1.0 - October 12, 2006
XTreme Toolkit Pro 18.4.0	XTreme Toolkit Pro 10.1.1

### **XTreme Toolkit Pro 10.1.1**

CODEJOCK SOFTWARE® XTREME TOOLKITPRO™

END USER LICENSE AGREEMENT TERMS AND CONDITIONS

IMPORTANT – READ CAREFULLY

THIS SOFTWARE END USER LICENSE AGREEMENT (“EULA”) IS A LEGAL AGREEMENT BETWEEN YOU (EITHER AN INDIVIDUAL OR AN ENTITY) AND CODEJOCK SOFTWARE®. READ IT CAREFULLY BEFORE INSTALLING, COPYING, OR OTHERWISE USING THE SOFTWARE. IT PROVIDES A LICENSE TO USE THE SOFTWARE AND CONTAINS WARRANTY INFORMATION AND LIABILITY DISCLAIMERS. BY INSTALLING, COPYING, OR OTHERWISE USING THE SOFTWARE, YOU ARE CONFIRMING YOUR ACCEPTANCE OF THE SOFTWARE AND AGREEING TO BE BOUND BY THE TERMS OF THIS AGREEMENT. IF YOU DO NOT AGREE TO BE BOUND BY THESE TERMS, THEN DO NOT INSTALL OR USE THE SOFTWARE.

ARTICLE 1 - DEFINITIONS

1.1 "Documentation" means all user guides, reference manuals, other documentation accompanying Software (as defined below), and all other documentation otherwise made available by Codejock Software®.

1.2 "Licensee" means the purchaser of the license rights granted by this EULA (also referred to as "You")

1.3 "Licensed Product" means the Software (as defined below) and Documentation and any copies or modifications.

1.4 "Licensor" means Codejock Software®.

1.5 "Software" means Xtreme ToolkitPro™ and its components, in Source Code or Object Code form for which Licensee has paid the applicable license fees.

1.6 "Source Code" means the version of software as it is originally written (i.e., typed into a computer) by a human in plain text (i.e., human readable alphanumeric characters) that contain programming statements and instructions that are not directly executable by the computer.

1.7 "Product Source Code" means Source Code that is used to develop and create the Software for the Licensed Product as defined above.

1.8 "Sample Source Code" means Source Code that is used to demonstrate the use of the Software for Licensed Product as defined above.

1.9 "Object Code" means Source Code that has been compiled (i.e., translated by a computer) into machine language by a compiler and consists of a sequence of instructions (in the form of zeros and ones) that the processor can understand. (e.g. a Dynamic Link Library ("DLL"), Statically Linked Library ("LIB"), Active -X COM Component ("OCX") or Executable ("EXE") file)

1.10 "Statically Linked Libraries" means binary Object Code that can be merged with other objects such as Dynamic Link Libraries or Executables to form a single object file.

1.11 "You" means the purchaser of the license rights granted by this EULA (also referred to as "Licensee")

## ARTICLE 2 – LICENSE

2.1 License Grant. In accordance with the terms and conditions of this EULA, Licensor grants Licensee a non-exclusive, nontransferable license to use the Software and Documentation. All rights to and in the Licensed Product, including, but not limited to, copyrights and trade secret rights, belong to Licensor and Licensor holds title to each copy of the Software. The Software shall only be used by a single developer at one time. Licensee shall not transfer or distribute the Licensed Product to others (except as specified in section 2.2 below), and this Agreement shall automatically terminate in the event of such a transfer or distribution.

2.2 Permitted Uses. Subject to the terms and conditions of this EULA, Licensee may do the following: (a) Copy the Software to either: (i) Make one backup copy of the Software solely for backup purposes as long as all copyright and other notices are reproduced and included on the backup copy; or (ii) Transfer the Software to a hard disk as long as all copyright and other notices are reproduced and included on hard disk copy and keep the original copy solely for backup purposes. (b) Incorporate the Object Code into software application products that you develop; (c) Modify (i.e. modify the Source Code and compile) the Object Code and incorporate the modified libraries into software application products that you develop; (d) Make and distribute copies of the Object Code of the Software as incorporated

into software application products that you develop provided that the Software, or other Codejock Software® products, do not constitute a major portion of the value of your product; (e) Solely with the respect to electronic help documentation, you may make an unlimited number of copies (either in hardcopy or electronic form), provided that such copies shall be used only for internal purposes and are not republished or distributed beyond the licensee's premises; (f) Use and modify the Product Source Code (if provided) and the Sample Source Code ("Product or Sample Source Code"), provided you do not distribute the Product or Sample Source Code, or any modified version of the Product or Sample Source Code, in Source Code form. (i) Any changes that are made to the Source Code that is not provided by Licensor will be the responsibility of Licensee, and Licensee will hold Licensor harmless for Licensee's additions. (ii) Any changes made by Licensee directly to the Product Source Code, unless authorized by Licensor, will not be covered under existing support agreements.

2.3 Prohibited Uses. Notwithstanding anything in this EULA to the contrary, Licensee may not do the following: (a) Distribute in any manner the Product or Sample Source Code or independent Statically Linked Libraries of the Software; (b) Use, copy, modify, merge or compile all or any portion of the Source Code or Object Code of the Software except as expressly provided in this agreement; (c) Make telecommunication transmittal of the Software; (d) Distribute any portion of the Software or any derivative of any portion of the Software in a software development product or otherwise in competition with Codejock Software's distribution of the Software; (e) Decompile, disassemble or reverse engineer any Object Code from of any portion of the Software; (f) Expose the interfaces of the Software through your application. (e.g. an OCX, DLL, class library, etc.); (g) Re-distribute ActiveX COM (OCX) Object Code with any license files (.lic) that would cause the interface of the OCX to be exposed. (h) Rent or lease the Software; (i) Disclose any Source Codes of the Software to any person or entity who is not a Licensee of the Software; (j) Use Licensed Product with any product that is distributed as Open Source or is distributed under the terms of GNU General Public License (GPL) or where the Source Code of the application is freely distributed.

### ARTICLE 3 – TERMINATION

3.1 Term. This EULA shall remain in effect until terminated.

3.2 Termination by Licensee. Licensee may terminate this EULA by returning the Licensed Product to Licensor within 30 days of purchase.

3.3 Termination by Licensor. Licensor may terminate this EULA if Licensee breaches any of the terms and conditions of this EULA. Upon termination of this EULA Licensee shall return the Licensed Product to Licensor within 30 days after Licensee receives notice from Licensor that Licensee is terminating this EULA.

3.4 Survival of Rights After Termination. All provisions of this Agreement relating to disclaimers of warranties, limitation of liability, remedies, or damages, and Licensor's proprietary rights shall survive termination.

### ARTICLE 4 - LIMITED WARRANTY, DISCLAIMER, AND LIMITATION OF LIABILITY

4.1 Limited Warranty. This Software is intended for commercial, institutional, and industrial users. Licensor does not warrant that the functions contained in the Licensed Product will meet Licensee's requirements or that the operation of the Software will be uninterrupted or error-free. Licensor does warrant that the media on which the Software is furnished will be free from defects in materials and workmanship under normal use for a period of thirty (30)

days from the date of delivery (Warranty Period). Any other software and any hardware furnished with or accompanying the Software is not warranted by Licensor.

Licensor is not responsible for problems caused by changes in the operating characteristics of computer hardware or computer operating systems which are made after the release of the software or for problems in the interaction of the Software with non-Licensor software. Licensee's exclusive remedy under this limited warranty is the replacement of any defective physical media on which the Software is furnished, as provided below. To receive a replacement for defective media under this limited warranty, return the defective media to Supplier during the Warranty Period, with proof of payment. NO ORAL OR WRITTEN INFORMATION OR ADVICE GIVEN BY LICENSOR, ITS EMPLOYEES, DISTRIBUTORS, DEALERS, OR AGENTS SHALL INCREASE THE SCOPE OF THE ABOVE WARRANTIES OR CREATE ANY NEW WARRANTIES.

4.2 Disclaimer. EXCEPT AS PROVIDED ABOVE, THE LICENSED PRODUCT IS PROVIDED 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, TITLE AND NON-INFRINGEMENT, AND THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LICENSED PRODUCT IS WITH LICENSEE.

#### ARTICLE 5 - LIMITATION OF LIABILITY

5.1 Limitation of Liability. LICENSOR'S SOLE OBLIGATION OR LIABILITY UNDER THIS AGREEMENT IS THE REPLACEMENT OF DEFECTIVE MEDIA ACCORDING TO THE LIMITED WARRANTY ABOVE. IN NO EVENT WILL LICENSOR OR ANYONE ELSE WHO HAS BEEN INVOLVED IN THE CREATION, PRODUCTION, OR DELIVERY OF THE LICENSED PRODUCT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL OR INDIRECT DAMAGES, INCLUDING, WITHOUT LIMITATION, ANY LOSS OF DATA, OR LOSS OF PROFITS OR LOST SAVINGS, ARISING OUT OF USE OF OR INABILITY TO USE THE LICENSED PRODUCT (OR ANY HARDWARE FURNISHED WITH THE LICENSED PRODUCT), EVEN IF LICENSOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, OR FOR ANY CLAIM BY ANY THIRD PARTY. IN NO EVENT SHALL LICENSOR BE LIABLE FOR ANY DAMAGES.

#### ARTICLE 6 - GENERAL

6.1 U.S. Import and Export Laws. Any Licensed Product provided to Licensee by Licensor shall not be exported or re-exported in violation of any export provisions of the United States or any other applicable jurisdiction in which the Licensed Product was obtained.

6.2 Restriction on Transfer. Any attempt to sublicense, assign or transfer any of the rights, duties or obligations hereunder is void.

6.3 U.S. Government as Licensee. The Licensed Product is a "commercial item," as that term is defined at 48 C.F.R. 2.101, developed exclusively at private expense, consisting of "commercial computer software" and "commercial computer software documentation" as those terms are defined in 48 C.F.R. 12.212.

Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202-1 through 227.7204-4, all U.S. Government end users acquire the Licensed Product with only those rights as are granted to all other end users set forth in this EULA.

6.4 Proper Notices. All notices and other communications required or permitted under this EULA shall be deemed to have been given if mailed, postage paid, transmitted by facsimile, personally delivered or delivered by a commercial delivery service, to the address of the Licensee listed on file with the Licensor.

6.5 Governing Law. This EULA shall be governed by and interpreted under the laws of the State of Michigan, United States of America, without regard to conflicts of provisions.

6.6 Joint Venture. Nothing contained in this EULA shall be construed so as to make the parties partners or joint ventures.

6.7 Waiver. The failure of either party to this EULA to insist upon the performance of any of the term or conditions of this EULA will not be construed as thereafter waiving any such terms or conditions but the same will continue and remain in full force and effect as if no such forbearance or waiver had occurred.

6.8 Integration. LICENSEE FURTHER AGREES THAT THIS AGREEMENT IS THE COMPLETE AND EXCLUSIVE STATEMENT OF THE AGREEMENT BETWEEN LICENSEE AND LICENSOR, AND SUPERSEDES ANY PROPOSAL OR PRIOR AGREEMENT, ORAL OR WRITTEN, AND ANY OTHER COMMUNICATIONS RELATING TO THE SUBJECT MATTER OF THIS AGREEMENT.

6.9 Severability. If any provision of this EULA becomes or is declared by a court of competent jurisdiction to be unenforceable, this EULA shall continue in full force and effect without the provision.

6.10 Headings. All article, section, and paragraph headings contained in this EULA are for reference and in no way define, limit or extend the EULA or the intent of any of its provisions.

Codejock Software is a division of Codejock Technologies, LLC P.O. Box 726 Owosso, Michigan 48867

### **Boost 1.0**

Boost Software License - Version 1.0 - August 17th, 2003

Permission is hereby granted, free of charge, to any person or organization obtaining a copy of the software and accompanying documentation covered by this license (the "Software") to use, reproduce, display, distribute, execute, and transmit the Software, and to prepare derivative works of the Software, and to permit third-parties to whom the Software is furnished to do so, all subject to the following:

The copyright notices in the Software and this entire statement, including the above license grant, this restriction and the following disclaimer, must be included in all copies of the Software, in whole or in part, and all derivative works of the Software, unless such copies or derivative works are solely in the form of machine-executable object code generated by a source language processor.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE AND NON-INFRINGEMENT. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR ANYONE DISTRIBUTING THE SOFTWARE BE LIABLE FOR ANY DAMAGES OR OTHER LIABILITY, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

### **Creative Commons Zero (CCO) 1**

Statement of Purpose

The laws of most jurisdictions throughout the world automatically confer exclusive Copyright and Related Rights (defined below) upon the creator and subsequent owner(s)

(each and all, an "owner") of an original work of authorship and/or a database (each, a "Work").

Certain owners wish to permanently relinquish those rights to a Work for the purpose of contributing to a commons of creative, cultural and scientific works ("Commons") that the public can reliably and without fear of later claims of infringement build upon, modify, incorporate in other works, reuse and redistribute as freely as possible in any form whatsoever and for any purposes, including without limitation commercial purposes. These owners may contribute to the Commons to promote the ideal of a free culture and the further production of creative, cultural and scientific works, or to gain reputation or greater distribution for their Work in part through the use and efforts of others.

For these and/or other purposes and motivations, and without any expectation of additional consideration or compensation, the person associating CC0 with a Work (the "Affirmer"), to the extent that he or she is an owner of Copyright and Related Rights in the Work, voluntarily elects to apply CC0 to the Work and publicly distribute the Work under its terms, with knowledge of his or her Copyright and Related Rights in the Work and the meaning and intended legal effect of CC0 on those rights.

1. Copyright and Related Rights. A Work made available under CC0 may be protected by copyright and related or neighboring rights ("Copyright and Related Rights"). Copyright and Related Rights include, but are not limited to, the following:

the right to reproduce, adapt, distribute, perform, display, communicate, and translate a Work;

moral rights retained by the original author(s) and/or performer(s);

publicity and privacy rights pertaining to a person's image or likeness depicted in a Work;

rights protecting against unfair competition in regards to a Work, subject to the limitations in paragraph 4(a), below;

rights protecting the extraction, dissemination, use and reuse of data in a Work;

database rights (such as those arising under Directive 96/9/EC of the European Parliament and of the Council of 11 March 1996 on the legal protection of databases, and under any national implementation thereof, including any amended or successor version of such directive); and

other similar, equivalent or corresponding rights throughout the world based on applicable law or treaty, and any national implementations thereof.

2. Waiver. To the greatest extent permitted by, but not in contravention of, applicable law, Affirmer hereby overtly, fully, permanently, irrevocably and unconditionally waives, abandons, and surrenders all of Affirmer's Copyright and Related Rights and associated claims and causes of action, whether now known or unknown (including existing as well as future claims and causes of action), in the Work (i) in all territories worldwide, (ii) for the maximum duration provided by applicable law or treaty (including future time extensions), (iii) in any current or future medium and for any number of copies, and (iv) for any purpose whatsoever, including without limitation commercial, advertising or promotional purposes (the "Waiver"). Affirmer makes the Waiver for the benefit of each member of the public at large and to the detriment of Affirmer's heirs and successors, fully intending that such Waiver shall not be subject to revocation, rescission, cancellation, termination, or any other legal or equitable action to disrupt the quiet enjoyment of the Work by the public as contemplated by Affirmer's express Statement of Purpose.

3. Public License Fallback. Should any part of the Waiver for any reason be judged legally invalid or ineffective under applicable law, then the Waiver shall be preserved to the maximum extent permitted taking into account Affirmer's express Statement of Purpose. In addition, to the extent the Waiver is so judged Affirmer hereby grants to each affected person a royalty-free, non transferable, non sublicensable, non exclusive, irrevocable and unconditional license to exercise Affirmer's Copyright and Related Rights in the Work (i) in all territories worldwide, (ii) for the maximum duration provided by applicable law or treaty (including future time extensions), (iii) in any current or future medium and for any number of copies, and (iv) for any purpose whatsoever, including without limitation commercial, advertising or promotional purposes (the "License"). The License shall be deemed effective as of the date CC0 was applied by Affirmer to the Work. Should any part of the License for any reason be judged legally invalid or ineffective under applicable law, such partial invalidity or ineffectiveness shall not invalidate the remainder of the License, and in such case Affirmer hereby affirms that he or she will not (i) exercise any of his or her remaining Copyright and Related Rights in the Work or (ii) assert any associated claims and causes of action with respect to the Work, in either case contrary to Affirmer's express Statement of Purpose.

#### 4. Limitations and Disclaimers.

No trademark or patent rights held by Affirmer are waived, abandoned, surrendered, licensed or otherwise affected by this document.

Affirmer offers the Work as-is and makes no representations or warranties of any kind concerning the Work, express, implied, statutory or otherwise, including without limitation warranties of title, merchantability, fitness for a particular purpose, non infringement, or the absence of latent or other defects, accuracy, or the present or absence of errors, whether or not discoverable, all to the greatest extent permissible under applicable law.

Affirmer disclaims responsibility for clearing rights of other persons that may apply to the Work or any use thereof, including without limitation any person's Copyright and Related Rights in the Work. Further, Affirmer disclaims responsibility for obtaining any necessary consents, permissions or other rights required for any use of the Work.

Affirmer understands and acknowledges that Creative Commons is not a party to this document and has no duty or obligation with respect to this CC0 or use of the Work.

### **Microsoft Public License (Ms-PL) 1.0 - October 12, 2006**

Microsoft Public License (Ms-PL)

Published: October 12, 2006

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

(B) 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.

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

(D) 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.

(E) 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.

### **Codejock Property Grid 11.22**

CODEJOCK SOFTWARE© XTREME PROPERTYGRID™ 2009

END USER LICENSE AGREEMENT TERMS AND CONDITIONS

IMPORTANT – READ CAREFULLY

THIS SOFTWARE END USER LICENSE AGREEMENT ("EULA") IS A LEGAL AGREEMENT BETWEEN YOU (EITHER AN INDIVIDUAL OR AN ENTITY) AND CODEJOCK SOFTWARE©. READ IT CAREFULLY BEFORE INSTALLING, COPYING, OR OTHERWISE USING THE SOFTWARE. IT PROVIDES A LICENSE TO USE THE SOFTWARE AND CONTAINS WARRANTY INFORMATION AND LIABILITY DISCLAIMERS. BY INSTALLING, COPYING, OR OTHERWISE USING THE SOFTWARE, YOU ARE CONFIRMING YOUR ACCEPTANCE OF THE SOFTWARE AND AGREEING TO BE BOUND BY THE TERMS OF THIS AGREEMENT. IF YOU DO NOT AGREE TO BE BOUND BY THESE TERMS, THEN DO NOT INSTALL OR USE THE SOFTWARE.

#### ARTICLE 1 – DEFINITIONS

1.1 "Documentation" means all user guides, reference manuals, other documentation accompanying Software (as defined below), and all other documentation otherwise made available by Codejock Software©.

1.2 "Licensee" means the purchaser of the license rights granted by this EULA (also referred to as "You")

1.3 "Licensed Product" means the Software (as defined below) and Documentation and any copies or modifications.

1.4 "Licensor" means Codejock Software©.

1.5 "Software" means Xtreme PropertyGrid™ 2009 and its components, in Source Code or Object Code form for which Licensee has paid the applicable license fees.

1.6 "Source Code" means the version of software as it is originally written (i.e., typed into a computer) by a human in plain text (i.e., human readable alphanumeric characters) that contain programming statements and instructions that are not directly executable by the computer.

1.7 "Product Source Code" means Source Code that is used to develop and create the Software for the Licensed Product as defined above.

1.8 "Sample Source Code" means Source Code that is used to demonstrate the use of the Software for Licensed Product as defined above.

1.9 "Object Code" means Source Code that has been compiled (i.e., translated by a computer) into machine language by a compiler and consists of a sequence of instructions (in the form of zeros and ones) that the processor can understand. (e.g. a Dynamic Link Library ("DLL"), Statically Linked Library ("LIB"), Active -X COM Component ("OCX") or Executable ("EXE") file)

1.10 "Statically Linked Libraries" means binary Object Code that can be merged with other objects such as Dynamic Link Libraries or Executables to form a single object file.

1.11 "You" means the purchaser of the license rights granted by this EULA (also referred to as "Licensee")

## ARTICLE 2 – LICENSE

2.1 License Grant. In accordance with the terms and conditions of this EULA, Licensor grants Licensee a non-exclusive, nontransferable license to use the Software and Documentation. All rights to and in the Licensed Product, including, but not limited to, copyrights and trade secret rights, belong to Licensor and Licensor holds title to each copy of the Software. The Software shall only be used by a single developer at one time. Licensee shall not transfer or distribute the Licensed Product to others (except as specified in section 2.2 below), and this Agreement shall automatically terminate in the event of such a transfer or distribution. The 2007 Microsoft Office User Interface is subject to protection under U.S. and international intellectual property laws and is used by Codejock Software under license from Microsoft.

2.2 Permitted Uses. Subject to the terms and conditions of this EULA, Licensee may do the following: (a) Copy the Software to either: (i) Make one backup copy of the Software solely for backup purposes as long as all copyright and other notices are reproduced and included on the backup copy; or (ii) Transfer the Software to a hard disk as long as all copyright and other notices are reproduced and included on hard disk copy and keep the original copy solely for backup purposes. (b) Incorporate the Object Code into software application products that you develop; (c) Modify (i.e. modify the Source Code and compile) the Object Code and incorporate the modified libraries into software application products that you develop; (d) Make and distribute copies of the Object Code of the Software as incorporated into software application products that you develop provided that the Software, or other Codejock Software© products, do not constitute a major portion of the value of your product; (e) Solely with the respect to electronic help documentation, you may make an

unlimited number of copies (either in hardcopy or electronic form), provided that such copies shall be used only for internal purposes and are not republished or distributed beyond the licensee's premises; (f) Use and modify the Product Source Code (if provided) and the Sample Source Code ("Product or Sample Source Code"), provided you do not distribute the Product or Sample Source Code, or any modified version of the Product or Sample Source Code, in Source Code form. (i) Any changes that are made to the Source Code that is not provided by Licensor will be the responsibility of Licensee, and Licensee will hold Licensor harmless for Licensee's additions. (ii) Any changes made by Licensee directly to the Product Source Code, unless authorized by Licensor, will not be covered under existing support agreements.

2.3 Prohibited Uses. Notwithstanding anything in this EULA to the contrary, Licensee may not do the following:

(a) Distribute in any manner the Product or Sample Source Code or independent Statically Linked Libraries of the Software; (b) Use, copy, modify, merge or compile all or any portion of the Source Code or Object Code of the Software except as expressly provided in this agreement; (c) Make telecommunication transmittal of the Product Source Code, Sample Source Code or Statically Linked Libraries; (d) Distribute any portion of the Software or any derivative of any portion of the Software in a software development product or otherwise in competition with Codejock Software's distribution of the Software; (e) Decompile, disassemble or reverse engineer any Object Code from of any portion of the Software; (f) Repackage, wrap or compile any of the MFC Product or Sample Source Code into ActiveX COM (OCX) format. (g) Expose the interfaces of the Software through your application. (e.g. an OCX, DLL, class library, etc.); (h) Re-distribute ActiveX COM (OCX) Object Code with any license files (.lic) that would cause the interface of the OCX to be exposed. (i) Rent or lease the Software; (j) Disclose any Source Codes of the Software to any person or entity who is not a Licensee of the Software; (k) Use Licensed Product with any product that is distributed as Open Source or is distributed under the terms of GNU General Public License (GPL) or where the Source Code of the application is freely distributed.

### ARTICLE 3 – TERMINATION

3.1 Term. This EULA shall remain in effect until terminated.

3.2 Termination by Licensee. Licensee may terminate this EULA by returning the Licensed Product to Licensor within 30 days of purchase.

3.3 Termination by Licensor. Licensor may terminate this EULA if Licensee breaches any of the terms and conditions of this EULA. Upon termination of this EULA Licensee shall return the Licensed Product to Licensor within 30 days after Licensee receives notice from Licensor that Licensee is terminating this EULA.

3.4 Survival of Rights After Termination. All provisions of this Agreement relating to disclaimers of warranties, limitation of liability, remedies, or damages, and Licensor's proprietary rights shall survive termination.

### ARTICLE 4 – LIMITED WARRANTY, DISCLAIMER, AND LIMITATION OF LIABILITY

4.1 Limited Warranty. This Software is intended for commercial, institutional, and industrial users. Licensor does not warrant that the functions contained in the Licensed Product will meet Licensee's requirements or that the operation of the Software will be uninterrupted or error-free. Licensor does warrant that the media on which the Software is furnished will be free from defects in materials and workmanship under normal use for a period of thirty (30)

days from the date of delivery (Warranty Period). Any other software and any hardware furnished with or accompanying the Software is not warranted by Licensor.

Licensor is not responsible for problems caused by changes in the operating characteristics of computer hardware or computer operating systems which are made after the release of the software or for problems in the interaction of the Software with non-Licensor software. Licensee's exclusive remedy under this limited warranty is the replacement of any defective physical media on which the Software is furnished, as provided below. To receive a replacement for defective media under this limited warranty, return the defective media to Supplier during the Warranty Period, with proof of payment. NO ORAL OR WRITTEN INFORMATION OR ADVICE GIVEN BY LICENSOR, ITS EMPLOYEES, DISTRIBUTORS, DEALERS, OR AGENTS SHALL INCREASE THE SCOPE OF THE ABOVE WARRANTIES OR CREATE ANY NEW WARRANTIES.

4.2 Disclaimer. EXCEPT AS PROVIDED ABOVE, THE LICENSED PRODUCT IS PROVIDED 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, TITLE AND NON-INFRINGEMENT, AND THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LICENSED PRODUCT IS WITH LICENSEE.

#### ARTICLE 5 – LIMITATION OF LIABILITY

5.1 Limitation of Liability. LICENSOR'S SOLE OBLIGATION OR LIABILITY UNDER THIS AGREEMENT IS THE REPLACEMENT OF DEFECTIVE MEDIA ACCORDING TO THE LIMITED WARRANTY ABOVE. IN NO EVENT WILL LICENSOR OR ANYONE ELSE WHO HAS BEEN INVOLVED IN THE CREATION, PRODUCTION, OR DELIVERY OF THE LICENSED PRODUCT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL OR INDIRECT DAMAGES, INCLUDING, WITHOUT LIMITATION, ANY LOSS OF DATA, OR LOSS OF PROFITS OR LOST SAVINGS, ARISING OUT OF USE OF OR INABILITY TO USE THE LICENSED PRODUCT (OR ANY HARDWARE FURNISHED WITH THE LICENSED PRODUCT), EVEN IF LICENSOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, OR FOR ANY CLAIM BY ANY THIRD PARTY. IN NO EVENT SHALL LICENSOR BE LIABLE FOR ANY DAMAGES.

#### ARTICLE 6 – GENERAL

6.1 U.S. Import and Export Laws. Any Licensed Product provided to Licensee by Licensor shall not be exported or re-exported in violation of any export provisions of the United States or any other applicable jurisdiction in which the Licensed Product was obtained.

6.2 Restriction on Transfer. Any attempt to sublicense, assign or transfer any of the rights, duties or obligations hereunder is void.

6.3 U.S. Government as Licensee. The Licensed Product is a "commercial item," as that term is defined at 48 C.F.R. 2.101, developed exclusively at private expense, consisting of "commercial computer software" and "commercial computer software documentation" as those terms are defined in 48 C.F.R. 12.212.

Consistent with 48 C.F.R. 12.212 and 48 C.F.R. 227.7202–1 through 227.7204–4, all U.S. Government end users acquire the Licensed Product with only those rights as are granted to all other end users set forth in this EULA.

6.4 Proper Notices. All notices and other communications required or permitted under this EULA shall be deemed to have been given if mailed, postage paid, transmitted by facsimile, personally delivered or delivered by a commercial delivery service, to the address of the Licensee listed on file with the Licensor.

6.5 Governing Law. This EULA shall be governed by and interpreted under the laws of the State of Michigan, United States of America, without regard to conflicts of provisions.

6.6 Joint Venture. Nothing contained in this EULA shall be construed so as to make the parties partners or joint ventures.

6.7 Waiver. The failure of either party to this EULA to insist upon the performance of any of the term or conditions of this EULA will not be construed as thereafter waiving any such terms or conditions but the same will continue and remain in full force and effect as if no such forbearance or waiver had occurred.

6.8 Integration. LICENSEE FURTHER AGREES THAT THIS AGREEMENT IS THE COMPLETE AND EXCLUSIVE STATEMENT OF THE AGREEMENT BETWEEN LICENSEE AND LICENSOR, AND SUPERSEDES ANY PROPOSAL OR PRIOR AGREEMENT, ORAL OR WRITTEN, AND ANY OTHER COMMUNICATIONS RELATING TO THE SUBJECT MATTER OF THIS AGREEMENT.

6.9 Severability. If any provision of this EULA becomes or is declared by a court of competent jurisdiction to be unenforceable, this EULA shall continue in full force and effect without the provision.

6.10 Headings. All article, section, and paragraph headings contained in this EULA are for reference and in no way define, limit or extend the EULA or the intent of any of its provisions.

Codejock Software is a division of Codejock Technologies, LLC, 10877 Bennett Drive, Morrice, Michigan 48857

#### **MIT N/A**

Copyright (c) <year> <copyright holders>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

#### **MIT 1.0**

Copyright (c) <year> <copyright holders>

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,

OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

### **InstallShield 2009**

<http://www.acresso.com/products/is/installshield-resources.htm>.

### **Heimdal Krb/GSSapi 1.2**

Copyright (c) 1995 - 2007 Kungliga Tekniska Högskolan (Royal Institute of Technology, Stockholm, Sweden). All rights reserved.

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

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the Institute nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

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

### **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

### **SQLite 3.6.1**

All of the deliverable code in SQLite has been dedicated to the public domain by the authors. All code authors, and representatives of the companies they work for, have signed affidavits dedicating their contributions to the public domain and originals of those signed affidavits are stored in a firesafe at the main offices of Hwaci. Anyone is free to copy, modify, publish, use, compile, sell, or distribute the original SQLite code, either in source code form or as a compiled binary, for any purpose, commercial or non-commercial, and by any means.

The previous paragraph applies to the deliverable code in SQLite - those parts of the SQLite library that you actually bundle and ship with a larger application. Portions of the documentation and some code used as part of the build process might fall under other licenses. The details here are unclear. We do not worry about the licensing of the documentation and build code so much because none of these things are part of the core deliverable SQLite library.

All of the deliverable code in SQLite has been written from scratch. No code has been taken from other projects or from the open internet. Every line of code can be traced back to its

original author, and all of those authors have public domain dedications on file. So the SQLite code base is clean and is uncontaminated with licensed code from other projects.

#### Obtaining An Explicit License To Use SQLite

Even though SQLite is in the public domain and does not require a license, some users want to obtain a license anyway. Some reasons for obtaining a license include:

You are using SQLite in a jurisdiction that does not recognize the public domain.

You are using SQLite in a jurisdiction that does not recognize the right of an author to dedicate their work to the public domain.

You want to hold a tangible legal document as evidence that you have the legal right to use and distribute SQLite.

Your legal department tells you that you have to purchase a license.

If you feel like you really have to purchase a license for SQLite, Hwaci, the company that employs the architect and principal developers of SQLite, will sell you one.

#### Contributed Code

In order to keep SQLite completely free and unencumbered by copyright, all new contributors to the SQLite code base are asked to dedicate their contributions to the public domain. If you want to send a patch or enhancement for possible inclusion in the SQLite source tree, please accompany the patch with the following statement:

The author or authors of this code dedicate any and all copyright interest in this code to the public domain. We make this dedication for the benefit of the public at large and to the detriment of our heirs and successors. We intend this dedication to be an overt act of relinquishment in perpetuity of all present and future rights to this code under copyright law.

We are not able to accept patches or changes to SQLite that are not accompanied by a statement such as the above. In addition, if you make changes or enhancements as an employee, then a simple statement such as the above is insufficient. You must also send by surface mail a copyright release signed by a company officer. A signed original of the copyright release should be mailed to:

Hwaci

6200 Maple Cove Lane

Charlotte, NC 28269

USA

#### **Artistic License 1.0**

Some versions of the artistic license contain the following clause:

8. Aggregation of this Package with a commercial distribution is always permitted provided that the use of this Package is embedded; that is, when no overt attempt is made to make this Package's interfaces visible to the end user of the commercial distribution. Such use shall not be construed as a distribution of this Package.

With or without this clause, the license is approved by OSI for certifying software as OSI Certified Open Source.

One such example is the Perl Artistic License.

The Artistic License

## Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

### Definitions:

"Package" refers to the collection of files distributed by the Copyright Holder, and derivatives of that collection of files created through textual modification.

"Standard Version" refers to such a Package if it has not been modified, or has been modified in accordance with the wishes of the Copyright Holder.

"Copyright Holder" is whoever is named in the copyright or copyrights for the package.

"You" is you, if you're thinking about copying or distributing this Package.

"Reasonable copying fee" is whatever you can justify on the basis of media cost, duplication charges, time of people involved, and so on. (You will not be required to justify it to the Copyright Holder, but only to the computing community at large as a market that must bear the fee.)

"Freely Available" means that no fee is charged for the item itself, though there may be fees involved in handling the item. It also means that recipients of the item may redistribute it under the same conditions they received it.

1. You may make and give away verbatim copies of the source form of the Standard Version of this Package without restriction, provided that you duplicate all of the original copyright notices and associated disclaimers.
2. You may apply bug fixes, portability fixes and other modifications derived from the Public Domain or from the Copyright Holder. A Package modified in such a way shall still be considered the Standard Version.
3. You may otherwise modify your copy of this Package in any way, provided that you insert a prominent notice in each changed file stating how and when you changed that file, and provided that you do at least ONE of the following:
  - a) place your modifications in the Public Domain or otherwise make them Freely Available, such as by posting said modifications to Usenet or an equivalent medium, or placing the modifications on a major archive site such as ftp.uu.net, or by allowing the Copyright Holder to include your modifications in the Standard Version of the Package.
  - b) use the modified Package only within your corporation or organization.
  - c) rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.
  - d) make other distribution arrangements with the Copyright Holder.
4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:
  - a) distribute a Standard Version of the executables and library files, together with instructions (in the manual page or equivalent) on where to get the Standard Version.

b) accompany the distribution with the machine-readable source of the Package with your modifications.

c) accompany any non-standard executables with their corresponding Standard Version executables, giving the non-standard executables non-standard names, and clearly documenting the differences in manual pages (or equivalent), together with instructions on where to get the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

5. You may charge a reasonable copying fee for any distribution of this Package. You may charge any fee you choose for support of this Package. You may not charge a fee for this Package itself. However, you may distribute this Package in aggregate with other (possibly commercial) programs as part of a larger (possibly commercial) software distribution provided that you do not advertise this Package as a product of your own.

6. The scripts and library files supplied as input to or produced as output from the programs of this Package do not automatically fall under the copyright of this Package, but belong to whomever generated them, and may be sold commercially, and may be aggregated with this Package.

7. C or perl subroutines supplied by you and linked into this Package shall not be considered part of this Package.

8. The name of the Copyright Holder may not be used to endorse or promote products derived from this software without specific prior written permission.

9. THIS PACKAGE IS PROVIDED "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The End

**Copyright 2022 One Identity LLC.**

**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 One Identity LLC .

The information in this document is provided in connection with One Identity 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 One Identity LLC products. EXCEPT AS SET FORTH IN THE TERMS AND CONDITIONS AS SPECIFIED IN THE LICENSE AGREEMENT FOR THIS PRODUCT, ONE IDENTITY 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 ONE IDENTITY 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 ONE IDENTITY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. One Identity 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. One Identity 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:

One Identity LLC.  
Attn: LEGAL Dept  
4 Polaris Way  
Aliso Viejo, CA 92656

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

**Patents**

One Identity 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 <http://www.OneIdentity.com/legal/patents.aspx>.

**Trademarks**

One Identity and the One Identity logo are trademarks and registered trademarks of One Identity LLC. in the U.S.A. and other countries. For a complete list of One Identity trademarks, please visit our website at [www.OneIdentity.com/legal](http://www.OneIdentity.com/legal). All other trademarks are the property of their respective owners.

**Legend**

-  **WARNING:** A WARNING icon highlights a potential risk of bodily injury or property damage, for which industry-standard safety precautions are advised. This icon is often associated with electrical hazards related to hardware.
  
-  **CAUTION:** A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.