

---

***Tecplot***  
*Enjoy the View™*

**TECPLOT 360**  
2009

## **Installation Guide**

*Release 2*

## COPYRIGHT NOTICE

Teclplot 360™ Installation Guide is for use with Teclplot 360™ 2009 R2.

Copyright © 1988-2009 Teclplot, Inc. All rights reserved worldwide. Except for personal use, this manual may not be reproduced, transmitted, transcribed, stored in a retrieval system, or translated in any form, in whole or in part, without the express written permission of Teclplot, Inc., 3535 Factoria Blvd, Ste 550, Bellevue, Washington, 98006, U.S.A.

The software discussed in this documentation and the documentation itself are furnished under license for utilization and duplication *only* according to the license terms. The copyright for the software is held by Teclplot, Inc. Documentation is provided for information only. It is subject to change without notice. It should not be interpreted as a commitment by Teclplot, Inc. Teclplot, Inc. assumes no liability or responsibility for documentation errors or inaccuracies.

Teclplot, Inc.

Post Office Box 52708

Bellevue, WA 98015-2708 U.S.A.

Tel: 1.800.763.7005 (within the U.S. or Canada), 00 1 (425) 653-1200 (internationally)

email: sales@teclplot.com, support@teclplot.com

Questions, comments or concerns regarding this document: documentation@teclplot.com

For more information, visit <http://www.teclplot.com>

## THIRD PARTY SOFTWARE COPYRIGHT NOTICES

SciPy 2001-2009 Enthought, Inc. All Rights Reserved. NumPy 2005 NumPy Developers. All Rights Reserved. VisTools and VdmTools 1992-2009 Visual Kinematics, Inc. All Rights Reserved. NCSA HDF & HDF5 (Hierarchical Data Format) Software Library and Utilities Contributors: National Center for Supercomputing Applications (NCSA) at the University of Illinois, Fortner Software, Unidata Program Center (netCDF), The Independent JPEG Group (JPEG), Jean-Loup Gailly and Mark Adler (gzip), and Digital Equipment Corporation (DEC). Conditions of Redistribution: 1. Redistributions of source code must include 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 materials provided with the distribution. 3. In addition, redistributions of modified forms of the source or binary code must carry prominent notices stating that the original code was changed and the date of the change. 4. All publications or advertising materials mentioning features or use of this software are asked, but not required, to acknowledge that it was developed by the HDF Group and by the National Center for Supercomputing Applications at the University of Illinois at Urbana-Champaign and credit the contributors. 5. Neither the name of the HDF Group, the name of the University, nor the name of any Contributor may be used to endorse or promote products derived from this software without specific prior written permission from the University, THG, or the Contributor, respectively. **DISCLAIMER: THIS SOFTWARE IS PROVIDED BY THE HDF GROUP (THG) AND THE CONTRIBUTORS "AS IS" WITH NO WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED.** In no event shall THG or the Contributors be liable for any damages suffered by the users arising out of the use of this software, even if advised of the possibility of such damage. Copyright © 1998-2006 The Board of Trustees of the University of Illinois, Copyright © 2006-2008 The HDF Group (THG). All Rights Reserved. PNG Reference Library Copyright © 1995, 1996 Guy Eric Schalnat, Group 42, Inc., Copyright © 1996, 1997 Andreas Dilger, Copyright © 1998, 1999 Glenn Randers-Pehrson. All Rights Reserved. Tcl 1989-1994 The Regents of the University of California. Copyright © 1994 The Australian National University. Copyright © 1994-1998 Sun Microsystems, Inc. Copyright © 1996-1999 Scripps Corporation. All Rights Reserved. Imajoprom 1992 David W. Sanderson. All Rights Reserved. Ntghm 1988 Jef Poskanzer. All Rights Reserved. Mesa 1993-2003 Brian Paul. All Rights Reserved. W3C IPR 1995-1998 World Wide Web Consortium, Massachusetts Institute of Technology, Institut National de Recherche en Informatique et en Automatique. Keio University. All Rights Reserved. Pmpntop 1990 Ken Yap. All Rights Reserved. JPEG 1991-1998 Thomas G. Lane. All Rights Reserved. Direct API for Microsoft Visual Studio (direct.h) Copyright © 2006 Toni Ronkko. 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. Toni Ronkko. All Rights Reserved.

## TRADEMARKS

Teclplot®, Teclplot 360™, the Teclplot 360 logo™, Preplot®, Enjoy the View™, and Framer™ are registered trademarks or trademarks of Teclplot, Inc. in the United States and other countries.

3D Systems is a registered trademark or trademark of 3D Systems Corporation in the U.S. and/or other countries. Macintosh OS is a registered trademark or trademark of Apple, Incorporated in the U.S. and/or other countries. Reflection-X is a registered trademark or trademark of Attachmate Corporation in the U.S. and/or other countries. EnSight is a registered trademark or trademark of Computation Engineering Intention (CEI), Incorporated in the U.S. and/or other countries. EDEM is a registered trademark or trademark of DEM Solutions Ltd in the U.S. and/or other countries. Exced 3D, Hummingbird, and Exceed are registered trademarks or trademarks of Hummingbird Limited in the U.S. and/or other countries. Konqueror is a registered trademark or trademark of KDE e.V. in the U.S. and/or other countries. VIP and VDB are registered trademarks or trademarks of Halliburton in the U.S. and/or other countries. ECLIPSE FrontSim is a registered trademark or trademark of Schlumberger Information Solutions (SIS) in the U.S. and/or other countries. Debian is a registered trademark or trademark of Software in the Public Interest, Incorporated in the U.S. and/or other countries. X3D is a registered trademark or trademark of Web3D Consortium in the U.S. and/or other countries. X Window System is a registered trademark or trademark of X Consortium, Incorporated in the U.S. and/or other countries. ANSYS, Fluent and any other all ANSYS, Inc. brand, product, service and feature names, logos and slogans are registered trademarks or trademarks of ANSYS Incorporated or its subsidiaries in the U.S. and/or other countries. PAM-CRASH is a registered trademark or trademark of ESI Group in the U.S. and/or other countries. LS-DYNA is a registered trademark or trademark of Livermore Software Technology Corporation in the U.S. and/or other countries. MSC/NASTRAN is a registered trademark or trademark of MSC Software Corporation in the U.S. and/or other countries. NASTRAN is a registered trademark or trademark of National Aeronautics Space Administration in the U.S. and/or other countries. 3DSL is a registered trademark or trademark of StreamSim Technologies, Incorporated in the U.S. and/or other countries. SDR/IDEAS Universal is a registered trademark or trademark of UGS PLM Solutions Incorporated or its subsidiaries in the U.S. and/or other countries. Star-CCM+ is a registered trademark or trademark of CD-adapco in the U.S. and/or other countries. Reprise License Manager is a registered trademark or trademark of Reprise Software, Inc. in the U.S. and/or other countries. Python is a registered trademark or trademark of Python Software Foundation in the U.S. and/or other countries. Abaqus, the 3DS logo, SIMULIA and CATIA are registered trademarks or trademarks of Dassault Systèmes or its subsidiaries in the U.S. and/or other countries. The Abaqus runtime libraries are a product of Dassault Systèmes Simulia Corp., Providence, RI, USA. © Dassault Systèmes, 2007 FLOW-3D is a registered trademark or trademark of Flow Science, Incorporated in the U.S. and/or other countries. Adobe, Flash, Flash Player, Premier and PostScript are registered trademarks or trademarks of Adobe Systems, Incorporated in the U.S. and/or other countries. AutoCAD and DXF are registered trademarks or trademarks of Autodesk, Incorporated in the U.S. and/or other countries. Ubuntu is a registered trademark or trademark of Canonical Limited in the U.S. and/or other countries. HP LaserJet and PaintJet are registered trademarks or trademarks of Hewlett-Packard Development Company, Limited Partnership in the U.S. and/or other countries. IBM, RS/6000 and AIX are registered trademarks or trademarks of International Business Machines Corporation in the U.S. and/or other countries. Helvetica Font Family and Times Font Family are registered trademarks or trademarks of Linotype GmbH in the U.S. and/or other countries. Linux is a registered trademark or trademark of Linus Torvalds in the U.S. and/or other countries. ActiveX, Excel, Microsoft, Visual C++, Visual Studio, Windows, Windows Metafile, Windows XP, Windows Vista, Windows 2000 and PowerPoint are registered trademarks or trademarks of Microsoft Corporation in the U.S. and/or other countries. Firefox is a registered trademark or trademark of the Mozilla Foundation in the U.S. and/or other countries. Netscape is a registered trademark or trademark of Netscape Communications Corporation in the U.S. and/or other countries. SUSE is a registered trademark or trademark of Novell, Incorporated in the U.S. and/or other countries. Red Hat is a registered trademark or trademark of Red Hat, Incorporated in the U.S. and/or other countries. SPARC is a registered trademark or trademark of SPARC International, Incorporated in the U.S. and/or other countries. Products bearing SPARC trademarks are based on an architecture developed by Sun Microsystems, Inc. Solaris, Sun and SunRaster are registered trademarks or trademarks of Sun Microsystems, Incorporated in the U.S. and/or other countries. Courier is a registered trademark or trademark of Monotype Imaging Incorporated in the U.S. and/or other countries. UNIX and Motif are registered trademarks or trademarks of The Open Group in the U.S. and/or other countries. Qt is a registered trademark or trademark of Trolltech in the U.S. and/or other countries. Zlib is a registered trademark or trademark of Jean-loup Gailly and Mark Adler in the U.S. and/or other countries. OpenGL is a registered trademark or trademark of Silicon Graphics, Incorporated in the U.S. and/or other countries. JPEG is a registered trademark or trademark of Thomas G. Lane in the U.S. and/or other countries. SENSOR is a registered trademark or trademark of Coats Engineering in the U.S. and/or other countries. SENSOR is licensed and distributed only by Coats Engineering and by JOA Oil and Gas, a world-wide authorized reseller. All other product names mentioned herein are trademarks or registered trademarks of their respective owners.

## NOTICE TO U.S. GOVERNMENT END-USERS

Use, duplication, or disclosure by the U.S. Government is subject to restrictions as set forth in subparagraphs (a) through (d) of the Commercial Computer-Restricted Rights clause at FAR 52.227-19 when applicable, or in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013, and/or in similar or successor clauses in the DOD or NASA FAR Supplement. Contractor/manufacturer is Teclplot, Inc., 3535 Factoria Blvd, Ste. 550, Bellevue, WA 98006 U.S.A..

09-360-03-2

Rev 10/2009

---

# *Table of Contents*

---

<i>Introduction</i> .....	<b>5</b>
Overview .....	<b>5</b>
Installing the Reprise License Manager .....	<b>6</b>
 <i>Getting Started</i> .....	 <b>7</b>
Technical Support .....	<b>7</b>
License Number .....	<b>8</b>
System, Graphics, and Display Recommendations .....	<b>9</b>
Supported Platforms .....	<b>10</b>
 <i>Windows Installation</i> .....	 <b>11</b>
Windows Installation Instructions .....	<b>11</b>
Local License Manager Files Installation .....	<b>14</b>
 <i>Macintosh Installation</i> .....	 <b>17</b>
Macintosh Installation Instructions .....	<b>17</b>
Local License Manager Files Installation .....	<b>19</b>
Additional Information .....	<b>20</b>
 <i>Linux Installation</i> .....	 <b>23</b>
Pre-Installation Environment Variable Setup .....	<b>23</b>
Linux Installation Instructions .....	<b>24</b>
Local License Manager Files Installation .....	<b>26</b>
Additional Information .....	<b>28</b>

---

*License Manager Installation* . . . . . **31**

Reprise License Manager on Windows Platforms . . . . . **31**

Reprise License Manager on Mac/Linux/Unix Platforms. . . **33**

The Reprise License Manager Web Server. . . . . **36**

Additional License Administration Tools . . . . . **38**

*Useful Information*. . . . . **41**

User Documentation Sources . . . . . **41**

License Type Definitions . . . . . **42**

Borrowing/Returning Licenses Over a Network. . . . . **43**

Common License File Error Message. . . . . **45**

Obtaining License Key Files. . . . . **46**

Changing License Servers. . . . . **47**

License File Syntax. . . . . **47**

Network Licenses for Multiple Tecplot Products . . . . . **47**

Troubleshooting RLM. . . . . **48**

Firewall Settings for Hosting RLM. . . . . **49**

Running Tecplot Products on a Laptop. . . . . **50**

Notes . . . . . **51**

---

# Introduction

---

## Overview

Welcome to Tecplot 360! This guide contains instructions to help you successfully install Tecplot 360 and, if applicable, the accompanying Reprise License Manager. In order to complete the installation process, you need to have a basic understanding of file editing, folder navigation, path names, environment variables, and aliases. If you are unfamiliar with any of these topics, please ask your System Administrator for assistance.

The Tecplot 360 installation is now available primarily as a download. Download the appropriate setup file to begin (see the [Supported Platforms](#) list for help deciding which setup file you need). If you have difficulty downloading the installation file, contact [Technical Support](#) for help.



Tecplot 360 2009 and later versions use the Reprise License Manager. If you are upgrading from Tecplot 360 2008 R2 or earlier, for a smooth installation, uninstall previous versions of Tecplot 360 after installing Tecplot 360 2009 R2 and activating your license.

If you are updating from Tecplot 360 2009 R1, this does not apply. The installation will update only the necessary files.

## **Installing the Reprise License Manager**

Tecplot 360 2009 R2 includes a license manager powered by Reprise™. The Reprise License Manager administers licenses that enable use of Tecplot 360.

Under the Reprise License Manager, you can choose from three license types: a **Single-User** license, an **Evaluation** license, or a **Network** or **Site** license. To determine the type of license you currently have installed, choose “About Tecplot 360” from the **Help** menu.

If you have an **Evaluation** or **Single-User** license, which allows one user to access Tecplot 360, you only need to place your license file (*tecplotm.lic*) into your Tecplot 360 installation folder. Refer to the chapter appropriate for your platform ([Chapter 5: “Windows Installation”](#), [Chapter 6: “Macintosh Installation”](#), or [Chapter 7: “Linux Installation”](#)) for instructions.

A **Network** or **Site** license allows network administrators to “float” licenses to any machine on a network, and it allows users to “borrow” and “return” these **Network** licenses. If you have a **Network** or **Site** license, you must install the Reprise License Manager separately from Tecplot 360, and the System Administrator must install the license manager on the server before you can run Tecplot 360.

Refer to [“License Manager Installation”](#) on page 31 for instructions on how to install and configure the Reprise License Manager for a **Network** or **Site** license.

---

# Getting Started

---

This chapter includes information you should know before beginning your installation. Refer to later chapters for platform-specific notes.

## Technical Support

If you have difficulty performing the installation, review the [“Useful Information”](#) on page 41, or visit our detailed, searchable knowledge base online at [www.tecplot.com/support/installation.aspx](http://www.tecplot.com/support/installation.aspx). You can also contact our responsive Tecplot Technical Support Team by any of the following methods:

- Internet: [www.tecplot.com/support](http://www.tecplot.com/support)
- E-mail: [support@tecplot.com](mailto:support@tecplot.com)
- Telephone: +1-425-653-9393

Please include your license number when contacting Support.

Our **Tecplot Talk** online forum is a convenient way to get answers from other Tecplot product users and from the Tecplot Technical Support Team. Join the forum at [www.tecplottalk.com](http://www.tecplottalk.com).

## License Number

To complete installation, you will need your license number. If you downloaded your installation and do not have a license number, contact [Technical Support](#). If you have an install CD, your license number is on a yellow sticker inside your CD case. Your license number (in the form “L00000”) allows you to obtain your license key.



Tecplot 360 2009 and later versions use the Reprise License Manager. If you are upgrading from Tecplot 360 2008 R2 or earlier, for a smooth installation, uninstall previous versions of Tecplot 360 after installing Tecplot 360 2009 R2 and activating your license.

If you are updating from Tecplot 360 2009 R1, this does not apply. The installation will update only the necessary files.

---

## System, Graphics, and Display Recommendations

We recommend, at a minimum:

- **Processor** - 2 GHz (32-bit or 64-bit)
- **Storage** - 500 MB disk space and 2 GB RAM
- **Graphics** - An OpenGL-accelerated display adapter
- **Display** - Minimum resolution of 1024 x 768

We have found this configuration to be a good starting point. If you are working with larger data sets, you will want more RAM, more disk space, and likely a 64-bit processor. (32-bit processors limit applications such as Tecplot 360 to using only 2-3 GB of RAM.)

Please make sure that you are using the latest graphics drivers compatible with your hardware and operating system. These can be obtained from your graphics adapter vendor's Web site. Old versions may have issues with Tecplot 360, especially with larger data sets.

- **NVIDIA:** <http://www.nvidia.com/Download/index.aspx>

The NVIDIA driver versions we recommend are 185.18.x (Linux) and 6.14.x (Windows).

- **ATI:** <http://support.amd.com/us/gpudownload/Pages/index.aspx>

Download the latest available for your system and adapter.

- **Intel:** <http://downloadcenter.intel.com/Default.aspx>

Download the latest available for your system and adapter.

## Supported Platforms

Tecplot 360 is supported only on the following operating systems. The software may also run on operating system distributions similar to the ones listed here, but we cannot provide support for users running Tecplot 360 on such systems.

### Microsoft Windows

---

#### *32-bit*

XP (Service Pack 3)  
Vista (Service Pack 1)\*  
Windows 7\*

#### *64-bit*

XP (Service Pack 2)  
Vista (Service Pack 1)\*  
Windows 7\*

---

\*Vista and Windows 7 require that the installation be run as an administrator.

### Macintosh

---

#### *32-bit*

Mac OS X 10.4 (Universal)

#### *64-bit\**

Mac OS X 10.5 (Intel)

---

\*Requires an Intel Core 2 family processor or later. Core family processors are not supported.

### Linux

---

#### *32-bit*

Red Hat Enterprise Linux (RHEL) 4, 5  
SUSE 10, 11  
Ubuntu 6.06 LTS, 8.04 LTS\*

#### *64-bit*

Red Hat Enterprise Linux (RHEL) 4, 5  
SUSE 9 (SP 4), 10, 11  
Ubuntu 6.06 LTS, 8.04 LTS\*

---

\*Ubuntu must be a Long Term Support (LTS) release.

### UNIX

---

HP/UX (PA-RISC) 11.0, (IA64/Itanium) 11.2i  
IBM (RS6000) AIX 5.3 Technology Level 7\*  
Sun (SPARC) Solaris 9, 10

---

\*OpenGL must be installed before Tecplot 360.

---

# Windows Installation

---

Each license type (**Single-User**, **Network** or **Site**) for Windows<sup>®</sup> platforms requires the same preliminary installation steps, provided in the following section.

## Windows Installation Instructions

1. **Setup File** To use a download file for your installation, save the appropriate setup file to your hard drive from [www.tecplot.com](http://www.tecplot.com) (see [Step 2](#)). For a CD installation, insert the Tecplot 360 CD into your CD drive.
2. **Launch Installer** To install from a downloaded file, navigate to the location of your saved setup file and double-click the executable file to begin installation. To install from CD, navigate to the *Windows* folder on the CD and open *setup360\_win32.exe* or *setup360\_win64.exe* (located within the *win32* or *win64* folder).  
  
If you choose to install on Windows Vista or Windows 7, you must right-click the *.exe* file and select “Run as Administrator”.
3. **Visual C++ 2005 Runtime Libraries** Windows automatically installs the Visual C++ runtime libraries if you do not already have them installed. Click Yes to continue the installation if this dialog displays.
4. **Python™ 2.5.x** If you do not already have Python™ 2.5.x installed, the **InstallShield Wizard** will prompt you to install it. Tecplot 360 requires the Python library to run Python scripts. Click the Install button to install Python™ 2.5.x on your system. Finish the installation of Python™

2.5.x, and click Next to continue with the Tecplot 360 installation process.



### **SYSTEM ADMINISTRATORS**

To install Tecplot 360 on a network server as the System Administrator, you can go to the command line and navigate to the folder that contains your saved setup file. For example, if installing from a CD, type:

**D:**  
**CD windows**

Then type the following, depending on your platform:

```
setup360_win32.exe /a (32-bit), or  
setup360_win64.exe /a (64-bit)
```

The administrative installation choice copies all of the files and folders included in a full installation to a user-specified folder. This installation will not set environment variables, shortcuts, or icons.

Remember, if you choose to install Tecplot 360 for use with either a **Network** or **Site** license, you must also install the license manager software. Refer to [“License Manager Installation”](#) on page 31 for details.

5. **License Agreement** Read and accept the license agreement.
6. **Installation Type** Select your installation type:
  - **Purchased** Select “Purchased” if you have purchased Tecplot 360 and have a valid **Single-User**, **Network**, or **Site** license.
  - **Evaluation** Select “Evaluation” if you wish to use the free trial version of Tecplot 360.

7. **License Type** If you selected “Purchased” in [Step 6](#), select your license type (**Single-User**, **Network**, or **Site**).



Your license type is also printed on the yellow sticker inside your CD case. See [“License Type Definitions”](#) on page 42 for details. If you downloaded your installation and do not have a license number, contact [Technical Support](#).

8. **Server** If you chose **Network License** or **Site License** as your license type, enter the name of the machine acting as license manager server in the “myserver” field.



If you wish to use a **Network** or **Site** license but do not know your server information, you may leave the entry as “myserver” and proceed with the installation.

Once you receive the server information from your System Administrator, replace “myserver” in your *teplotm.lic* file with the correct information. Your installation creates this file in your Tecplot 360 installation folder (by default on Windows platforms, *C:\Program Files\Tecplot\Tec360 2009*). You cannot run Tecplot 360 successfully until the file contains your server information.

9. **User Information** Fill out the Name and Organization fields. If you have a “Purchased” license (**Single-User**, **Network**, or **Site**), enter the [License Number](#) as well.
10. **Computer Permissions** Select whether to install Tecplot 360 for only yourself or for all users.



You must have administrator rights on your computer in order to install Tecplot 360 for all users.

11. **Destination Folder** Tecplot 360 will install into this folder. Accept the default destination folder, or browse to set a new folder (by using the Change button).
12. **Working Folder** Tecplot 360 project files will save to this location by default. Accept the default working folder or browse to set a new folder for any new data files that you create (by using the Change button).
13. **Installation Mode** Specify whether to perform a custom or complete installation. The complete installation (recommended) installs all components of Tecplot 360.
14. **Install the Program** Click the Install button to begin the installation.

This completes the Tecplot 360 installation. Proceed to the next section to set up your license (if you have an **Evaluation** or **Single-User** license) or to configure your local machine to communicate with the Reprise License Manager (if you have a **Network** or **Site** license).

## Local License Manager Files Installation

Follow these directions to set up *teplotm.lic*, which acts as your individual license file or as the local file that communicates with the Reprise License Manager for Tecplot Products on your server.

### Evaluation License Setup

If you have an **Evaluation** license, save the *teplotm.lic* file containing your license key to the Tecplot 360 installation folder, replacing the empty *teplotm.lic* file created by your installation. If you do not have a *teplotm.lic* file, visit

<http://www.tecplot.com/products/360/demo.aspx> to obtain one.

### Single-User License Setup

If you have a **Single-User** license, you need to obtain a license key file after installing Tecplot 360. Follow the steps in this section.

1. The Tecplot 360 installation will automatically generate the *myhostids.txt* file and add it to your installation folder. Go to

[www.tecplot.com/activate](http://www.tecplot.com/activate) and follow the instructions to request an activation key, including uploading the *myhostids.txt* file. Refer to [“Obtaining License Key Files”](#) on page 46 for more information.

2. You will receive a *tecplotm.lic* file from Technical Support that contains your license key. To activate this key, save the *tecplotm.lic* file to your Tecplot 360 installation folder, replacing the empty *tecplotm.lic* file created by your installation.

## Network or Site License Setup

If you have a **Network** or **Site** license, you or your System Administrator must install the Reprise License Manager (RLM) on the network server. You must then configure your *tecplotm.lic* file to recognize RLM on your server before you can run Tecplot 360 on your local machine. If you entered the name of your server in [Step 8](#) of your product installation, you have already configured your *tecplotm.lic* file ([Step 2](#) following).

1. To set up a **Network** or **Site** license, install the Reprise License Manager on the network server. See [“Reprise License Manager on Windows Platforms”](#) on page 31 for instructions.
2. Configure the *tecplotm.lic* file in your local Tecplot 360 installation folder to communicate with the server, by adding your HOST (server) name to the file. If you do not know the name of your network server, contact your System Administrator. To add your HOST to the *tecplotm.lic* file, replace “myserver” with the name of your machine acting as RLM server.

You cannot run Tecplot 360 until the *tecplotm.lic* file contains your server information. Once that file contains the name of your network server, Tecplot 360 can communicate with the Reprise License Manager, and you may use the **Network** or **Site** license.



---

# Macintosh Installation

---

The steps to install Tecplot 360 on a Macintosh<sup>®</sup> machine differ significantly from the steps for an installation on a Windows machine. Follow the instructions below to install Tecplot 360 on a Macintosh system. Refer to the [Release Notes](#) for further information on Macintosh installations.



For Mac OS version 10.4, if you have not already installed X11 on your system, you will need to install it before you can run Tecplot 360. You can install X11 from your Mac OS installation DVD.

## Macintosh Installation Instructions



You may also use the Linux installation procedure in a terminal window (the DVD mount in */Volumes*). To use the Linux procedure, see [“Linux Installation Instructions” on page 24](#). You must have administrative privileges to install Tecplot 360 using the Linux script.

To install Tecplot 360 on a Macintosh platform, follow these steps:

1. **Setup File** To use a download file for your installation, save the appropriate setup file to your hard drive. For a DVD installation, insert the Tecplot 360 DVD into your DVD drive.
2. **Launch Installer** For a download installation, double-click the *.dmg* file icon to launch the installer. For a DVD installation, double-click the Tecplot 360 Install icon to launch Apple’s package installer and install Tecplot 360.
3. **Read Me** After reading the Read Me notes, Click Continue.
4. **License Agreement** Read and accept the license agreement in order to continue with the installation.

5. **Destination Folder** Select a destination volume. This step will create a new folder (by default, */Applications/Tec360\_2009 R2*), in which the installation will save the Tecplot 360 program files.
6. **Install** On the Easy Install window, click the Install button. If prompted, enter the name and password for an account with administrator privileges. If you do not have this account information, contact your System Administrator.
7. **Installation Type** Choose your installation type:
  - **Purchased** - Select “Purchased” if you have purchased Tecplot 360 and have a valid **Network**, **Site**, or **Single-User** license.
  - **Evaluation** - Select “Evaluation” if you wish to use the free trial copy of Tecplot 360.
8. **License Type** If you selected “Purchased”, select your license type.



Your license type is also printed on the yellow sticker inside your DVD case. See [“License Type Definitions”](#) on page 42 for details. If you downloaded your installation and do not have a license number, contact [Technical Support](#).

- **Single-User** - Select the “Single-User” radio button.
- **Network or Site License** - Enter the name of the license manager server in the “myserver” field.

This completes your Tecplot 360 installation. To change your license configuration, re-run the LicenseSetup utility. Proceed to the next section to set up your license (**Evaluation** or **Single-User** license) or to configure your local machine to communicate with the Reprise License Manager (**Network** or **Site** license).

---

## Local License Manager Files Installation

Follow these directions to set up *tecplotm.lic*, which acts as your individual license file or as the local file that communicates with the Reprise License Manager for Tecplot Products on your server.

### Evaluation License Setup

If you have an **Evaluation** license, save the *tecplotm.lic* file containing your license key to the Tecplot 360 installation folder (by default, */Applications/Tec360 2009 R2*), replacing the empty *tecplotm.lic* file created by your installation. If you do not have a *tecplotm.lic* file, go to [www.tecplot.com/activate](http://www.tecplot.com/activate) and follow the instructions to request an activation key.

### Single-User License Setup

If you have a **Single-User** license, you need to obtain a license key file after installing Tecplot 360. Follow the steps in this section.

1. The Tecplot 360 installation will automatically generate the *myhostids.txt* file and add it to your installation folder<sup>1</sup>. Go to [www.tecplot.com/activate](http://www.tecplot.com/activate) and follow the instructions to request an activation key, including uploading the *myhostids.txt* file. Refer to “[Obtaining License Key Files](#)” on page 46 for more information.
2. You will receive a *tecplotm.lic* file from Technical Support that contains your license key. To activate this key, save the *tecplotm.lic* file to the Tecplot 360 installation folder, replacing the empty *tecplotm.lic* file created by your installation.

### Network or Site License Setup

If you have a **Network** or **Site** license, you or your System Administrator must first install the Reprise License Manager (RLM) on the network server. You must then configure your *tecplotm.lic* file to recognize RLM on your network before you can run Tecplot 360 on

---

1. By default, tecplot installs to this folder: */Applications/Tec360\_2009*.

your local machine. If you entered the name of your server in [Step 8](#) of your product installation, you have already configured your *teplotm.lic* file ([Step 2](#), following).

1. To set up a **Network** or **Site** license, install the Reprise License Manager on the network server. See [“Reprise License Manager on Mac/Linux/Unix Platforms”](#) on page 33 for instructions.
2. Configure the *teplotm.lic* file in your local Tecplot 360 installation folder to communicate with the server, by adding your HOST (server) name to the file. If you do not know the name of your network server, contact your System Administrator. To add your HOST to the *teplotm.lic* file, replace “myserver” with the name of your machine on which the Reprise License Manager is installed.

You cannot run Tecplot 360 until the *teplotm.lic* file contains your license server information. Once that file contains the name of your network server, Tecplot 360 can communicate with the Reprise License Manager, and you may use the **Network** or **Site** license.

## **Additional Information**

Use the following information for additional help to run Tecplot 360 on a Macintosh platform.

### **File Associations**

Your Mac OS manages associations between file types and applications (that is, your OS chooses which program to use by default to open each file type). Installers cannot modify these associations. If you wish, you can modify these associations manually with the following steps:

1. Single-click on a file of the desired type (such as a *.plt* file).
2. Press Command-I, or choose “Get Info” from the **File** menu to display the **Info** dialog for that file type.
3. In the **Open With** menu, select the desired Tecplot 360 application. If the menu does not list the application you

---

want, click Other and navigate to your desired Tecplot 360 application.

4. Optionally, click the Change All button to change the associations for all files of the selected type.

## ALT Key Assignment

Apple's X11 server for Mac OS X does not treat the Command or Option key as an Alt key. To assign the Command or Option key as an Alt key, add the following line to `/etc/X11/xinit/xinitrc` file:

```
xmodmap -e "keycode 66 = Alt_L"
```

This change will take effect when the X server is restarted. To test this feature without restarting, type the `xmodmap` command in a terminal window.

## OpenGL Preference Dialog

By default, when Tecplot 360 is launched on a Mac platform, a preference dialog displays in which you can choose whether to use software OpenGL emulation. If you uncheck the option to always display that dialog, and later wish to display the dialog again, enter the following line into the command line to delete the saved preference and revert to displaying the dialog:

```
defaults delete com.tecplot.Tecplot
```



---

# Linux Installation

---

To install Tecplot 360 on a Linux<sup>®</sup>/Unix<sup>®</sup> operating system, we suggest that you log in as **root**. This allows you to complete the installation in a system directory, such as in **/usr**. Follow the steps in this chapter to install Tecplot 360 on a Linux or Unix operating system.

## Pre-Installation Environment Variable Setup

To run Tecplot 360 successfully, assign the path for the Tecplot 360 installation folder to the environment variable `$TEC_360_2009`. Also, include the `bin` folder of the Tecplot 360 installation folder in your `PATH` environment variable (as shown following).

These steps assume that your Tecplot 360 installation folder is `/usr/tec360_2009_R2`.

1. Add the following to your `.profile`<sup>1</sup> file (for Bourne or Korn) or to your `.bash_profile` file (for Bash) in your login home directory:

```
export TEC_360_2009=/usr/tec360_2009_R2
...{pre-existing code}...
export PATH=$TEC_360_2009/bin:$PATH
```



The following procedures depend upon the type of shell you are using. If you do not know what type of shell you are using, type the following command: **echo \$SHELL**. A response of **/bin/ksh** means you are using the Korn shell, a response of **/bin/sh** means you are using the Bourne shell, and a response of **/bin/bash** means you are using the BASH shell.

2. Activate all changes made to your `.profile` file by doing the following (choose the commands appropriate to your shell):

---

1. If you do not have a `.bash_profile` or `.profile` file, create this file.

- For the Korn or Bourne shells, run the following command:  
    `. ./profile`
- For the Bash shell, run the following command:  
    `. ./bash_profile`

When invoked as a login shell, Bash looks in these locations (in order) for commands:

```
./profile
./bash_profile
./bash_login
./profile
```

The Ubuntu system, which will use the Bash shell as its default, may not contain the `.bash_profile` file. If this is the case, you may create the file, or put the Tecplot commands in one of the other files above. Use syntax identical to the commands provided on [page 23](#).

## **Linux Installation Instructions**

To install Tecplot 360 on a Linux/Unix system, perform these steps:

1. **Setup File** To download your installation, save the *linux.tgz* file from the download site to your hard drive. Issue these two commands to untar the setup files and delete the tar file:

```
tar xzf linux.tgz
rm linux.tgz
```

For a CD installation, insert the Tecplot 360 CD in the CD drive (exact CD mounting procedures may vary between platforms).

2. **Navigate to File** If installing from a download, navigate to the location of your untarred setup file. If installing from a CD, switch to the **linux** subdirectory under the root directory of the CD. This directory is generally named

---

*/cdrom* or */CDROM*. To choose the right setup file for your platform, refer to [“Supported Platforms”](#) on page 10.

3. **Launch Setup Script** Launch the setup script (`./setup`).
4. **License Type** The script prompts you to choose from the following options:
  1. **Install Tecplot 360**  
Select this option to install with a **Single-User** or **Evaluation** License or to install a local copy of Tecplot 360 with a **Network** or **Site** License.
  2. **Install License Manager**  
Select this option to install the Reprise License Manager as the System Administrator on a **Network** or **Site** license server.
  3. **Install Tecplot 360 and the License Manager**  
Select this option to install both Tecplot 360 and the Reprise License Manager as the System Administrator on a **Network** or **Site** license server.
5. **Confirmation** Type **accept** to accept the license agreement and continue.
6. **Platform** Specify the platform for your Tecplot 360 installation from the list of available platforms. The setup script will try to detect your platform; if it can, the recommended platform designation will appear in brackets. Press Return to accept the recommended platform.
7. **License Type** Specify your license type, or press Return to accept the license type detected by the installation:
  - **Network** or **Site** license - Type **N** to proceed.
  - **Single-User** license - Type **S** to proceed.
  - **Evaluation** license - Type **E** to proceed.
8. **Home Directory** When asked for the name of your Tecplot 360 home directory, enter the full path to the installation folder that you specified in the [“Pre-Installation Environment Variable Setup”](#) on page 23.

If you have an **Evaluation** license, proceed from this point to [“Evaluation License Setup” on page 26](#).

9. **License Number** Enter your license number (provided on a yellow sticker inside your installation CD case). Your license number is a sequence of the form L00000.

If you have a **Single-User** license, proceed from this point to [“Single-User License Setup” on page 26](#).

10. **Server** If you are installing as a **Network** or **Site** license, enter the name or IP address of the machine hosting the Reprise License Manager. If you do not know your server information, you may leave the entry as “myserver” and proceed with the installation.

If you have a **Network** or **Site** license, proceed from this point to [“Network or Site License Setup” on page 27](#).

## Local License Manager Files Installation

Follow these directions to set up *teplotm.lic*, which acts as your individual license file or as the local file that communicates with the Reprise License Manager for Tecplot Products on your server.

### Evaluation License Setup

If you have an **Evaluation** license, save the *teplotm.lic* file containing your license key to the Tecplot 360 installation directory that you specified in the [“Pre-Installation Environment Variable Setup” on page 23](#), replacing the empty *teplotm.lic* file created by your installation. If you do not have a *teplotm.lic* file, go to [www.tecplot.com/products/360/demo.aspx](http://www.tecplot.com/products/360/demo.aspx) to request one.

### Single-User License Setup

If you have a **Single-User** license, you will need to obtain a license key file after installing Tecplot 360. Follow the steps in this section.

1. The Tecplot 360 installation will automatically generate the *myhostids.txt* file and add it to your installation directory<sup>1</sup>. Go to [www.tecplot.com/activate](http://www.tecplot.com/activate) and follow the instructions

to request an activation key, including uploading the *myhostids.txt* file. Refer to [“Obtaining License Key Files”](#) on page 46 for more information.

2. You will receive a *teplotm.lic* file from Technical Support that contains your license key. To activate this key, save the *teplotm.lic* file to the Tecplot 360 installation directory, replacing the empty *teplotm.lic* file created by your installation<sup>1</sup>.

## Network or Site License Setup

If you have a **Network** or **Site** license, you or your System Administrator must install the Reprise License Manager (RLM) on the network server. You must then configure your *teplotm.lic* file before you can run Tecplot 360 on your local machine. If you entered the name of your server in [Step 10](#) of your product installation, you have already configured your *teplotm.lic* file ([Step 2](#) following).

1. To set up a **Network** or **Site** license, install the Reprise License Manager on the network server. See [“Reprise License Manager on Mac/Linux/Unix Platforms”](#) on page 33 for instructions.
2. Configure the *teplotm.lic* file in your local Tecplot 360 installation directory to communicate with the server, by adding your HOST (server) name to the file. If you do not know the name of your license server, contact your System Administrator. To add your HOST to the *teplotm.lic* file, replace “myserver” with the name of the machine on which RLM is installed.

You cannot run Tecplot 360 until the *teplotm.lic* file contains your license server information. Once that file contains the name of your license server, Tecplot 360 can communicate with the Reprise License Manager, and you may use the **Network** or **Site** license.

---

1. By default, Tecplot 360 installs to this directory: *\$TEC\_360\_2009*

## Additional Information

Use the following information for additional help to run Tecplot 360 on a Linux/Unix platform.

### Tecplot 360 Start-Up

To run Tecplot 360, type `tec360`.

Reference the [User's Manual](#) or the [Quick Reference Guide](#) for a complete description of Tecplot 360's command line options.

### Star-CCM+

Some Star-CCM+ NVIDIA drivers (series 169.XX) are buggy and not supported by Star-CCM+ (random crashes may occur). We recommend using the driver version 180.44 for best results.

### Running Tecplot 360 Remotely

If you purchased a **Network** or **Site** license, you may run Tecplot 360 remotely using the X Window System. X Window System programs send their output to the display identified by the **DISPLAY** environment variable. Enter one of the following commands to set your environment variable:

- If your login shell is the Bourne or Korn shell, type:

```
export DISPLAY=hostnameofclientmachine:0
```

- Or, use the `-d` flag on the command line. For example:

```
tec360 -d computername:0
```

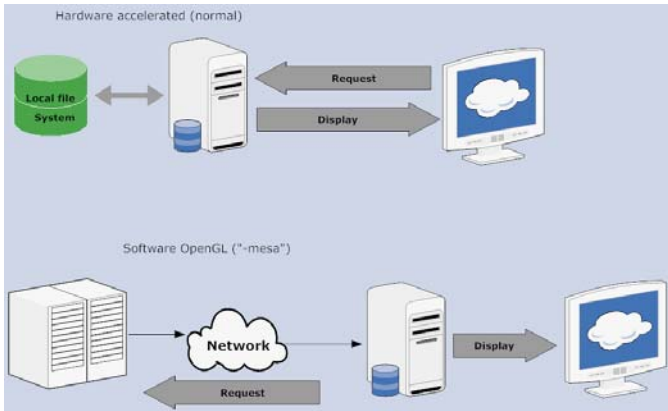
If you purchased a **Single-User** license, Tecplot 360 must run and display on the same computer.

If you choose to work remotely with complex geometries<sup>1</sup>, using the `-mesa` option (available on non-Windows platforms) will force computation to occur at the server. This may result in better display performance. At least two clients, VNC and ThinAnywhere, will automatically use this option. However, on other clients, like Reflection or Cygwin, you will need to specify the `-mesa` flag to

---

1. On the order of 50M polygons or elements

enable this. This diagram illustrates the difference in data calculation when a computer uses the **-mesa** option:



## Linux Help Configuration

Tecplot's HTML Help works by default with Firefox and Internet Explorer. To configure it for use in another browser (for example, Safari or Konquerer), you will need to make slight modifications to the *LaunchBrowser* file located in the *bin* folder. The comments in the file should provide sufficient information for you to customize your settings. If you have trouble viewing the help files, contact your System Administrator.



---

# License Manager Installation

---

To facilitate a **Network** or **Site** license of Tecplot 360, install the Reprise License Manager (RLM), the third-party license manager that Tecplot 360 uses, on only one computer on your network, even if you have licenses for multiple copies of Tecplot 360 or Tecplot Focus. In order to install and configure RLM, you must have Administrator privileges on the computer you designate as the network server.

With the **Network** or **Site** license, a user may check out a license on a supported Linux, Unix, Mac or Windows client from a server based on any of a range of Windows, Macintosh, Linux or Unix platforms (any platform that supports Tecplot 360 2009 R2). To install Tecplot 360 on a client after installing RLM on the server, follow the installation steps for the appropriate operating system, choose the network license type and enter the name of the machine that runs the license server.



To facilitate a **Network** or **Site** license of Tecplot 360, the machine chosen as server must:

- Be connected to the network on which Tecplot 360 or Tecplot Focus is installed.
- Have RLM running.
- Be of a type and operating system that Tecplot360 or Tecplot Focus supports. See [“System, Graphics, and Display Recommendations”](#) on page 9 for information.
- For **Network** licenses, the machine acting as server must be set up to communicate via TCP/IP with all machines on which you will be running Tecplot 360 or Tecplot Focus. For example, the license server should respond to

**telnet** or **ping**.

## Reprise License Manager on Windows Platforms

Use the following section to aid your installation and administration of a network license when using a Windows platform as your server.

## RLM Installation on Windows Platforms

Follow the instructions in this section to install the Reprise License Manager on a Windows platform.

1. **Setup File** To use a download file for your installation, navigate to and save the appropriate setup file to your hard drive from [http://tecplot.com/support/sms\\_login.aspx](http://tecplot.com/support/sms_login.aspx). You will need your SMS login to access the downloadable file. For a CD installation, insert the Tecplot 360 CD into your CD drive.
2. **Launch Installer** To install from a downloaded file, navigate to the location of your saved setup file and double-click on the executable file to begin installation. To install from the CD, navigate to the *Windows* folder on your installation CD and launch *SetupRlm32.exe* or *SetupRlm64.exe*.
3. **Begin** Click Next to begin RLM installation.
4. **User Information** Fill out the *Name* and *Organization* fields. Choose whether to install the application for all users or for only the current user.
5. **Destination Folder** Accept the default destination folder, or browse to set a new folder. The default destination folder is usually *C:\Program Files\Tecplot\RLM\*.
6. **Install** Click Install to begin the installation.
7. **Finish** Once the installation finishes, click Finish to exit the Reprise License Manager for Tecplot Products installation wizard.

The RLM installation will generate the *myhostids.txt* file (in the *C:\Program Files\Tecplot\RLM* folder), which gathers the information necessary to obtain your license key file. Refer to [“Obtaining License Key Files”](#) on page 46 for more information.

Once you have received your *tecplotm.lic* license file, copy the file into your RLM installation folder (by default, *C:\Program Files\Tecplot\RLM*). This will replace a temporary, empty

*tecplotm.lic* file. You cannot run Tecplot 360 or Tecplot Focus until you have placed the functional *tecplotm.lic* file in this location.

## **RLM Administration on Windows Platforms**

On Windows platforms, the Reprise License Manager installs as a Windows service, **teclmd**, that supports a web-based interface through which you can control and perform most license manager administration. If you wish, you can disable the web-based interface and use command line prompts instead, but for most administration, the web-based interface is easier.

Because RLM operates as a web-based interface, you can administer your license server from any platform on your network, and need only a web browser to administer the server. To learn more about the RLM Web Server, refer to [“The Reprise License Manager Web Server”](#) on page 36.

## **Reprise License Manager on Mac/Linux/Unix Platforms**

Use the following section to aid your installation and administration of a **Network** or **Site** license when using a Mac, Linux or Unix platform as your server.

If you followed the Linux installation procedure for Tecplot 360, on either a Mac or Linux/Unix machine, and selected to install both Tecplot 360 and the license manager, the RLM setup script will launch automatically. This script will prompt you for the location in which to install RLM. When this script finishes, you have finished installing RLM. Go to [“RLM License Setup on All Platforms”](#) on [page 36](#).

## **RLM Installation on Mac/Linux/Unix Platforms**

If you choose to install RLM separately from Tecplot 360 on a Mac, Linux or Unix machine, use the following procedure:

1. **Setup File** To install from a downloaded file, save the appropriate setup file to disk from <http://tecplot.com/>

[support/sms\\_login.aspx](#). You will need your SMS login to access the downloadable file. For a CD installation, insert the Tecplot CD in the CD drive (exact CD mounting procedures may vary between platforms).

2. **Launch Script** To install from a downloaded file, navigate to the location of your saved setup file. To install from the CD, switch to your platform's folder on the CD. The CD is generally named */cdrom* or */CDROM*. Launch the setup script (`./setup`).
3. **Install RLM Only** Select **Option 2** to install only the license manager.
4. **Platform** Specify the platform for your installation from the list of available platforms.
5. **Destination Folder** Enter the full path to a new or existing folder in which to install the Reprise License Manager.



If you install the Reprise License Manager on a Linux, Unix or Mac platform, you may need to adjust your firewall settings. Refer to [“Firewall Settings for Hosting RLM”](#) on page 49.

### RLM Administration on Mac/Linux/Unix Platforms

The Reprise License Manager installs with a web server supported by a script. You can configure RLM to run automatically on reboot using a file named **TecplotLicenseManager**, located in your designated installation folder. (This script is configured for RedHat Linux machines; it may require modification to run on other Linux/Unix platforms.)

You can use the RLM web server to perform most administration tasks. To learn more about the RLM Web Server, refer to [“The Reprise License Manager Web Server”](#) on page 36.

In addition to the RLM Web Server, you can use the **setuplic** script that installs with RLM in the specified installation folder to start or stop the server, inquire of its status or re-create *myhostids.txt*.

## RLM Installation on Macintosh Platforms

If you choose to install the Reprise License Manager separately from Tecplot 360 on a Macintosh machine, follow these instructions:

1. **Setup File** To install from a downloaded file, save the appropriate setup file to disk from <http://www.tecplot.com>. For a DVD installation, insert the Tecplot DVD in the DVD drive (exact DVD mounting procedures may vary between platforms).
2. **Launch Script** To install from a downloaded file, navigate to the location of your saved setup file. To install from the DVD, navigate to the *Macintosh* folder of your installation DVD. Launch the *TecplotLM.pkg* file (located in the *Intel64* or *Universal* folder on the DVD).
3. **Read Me** Read the Read Me notes and click Continue. The Reprise License Manager software will install by default to */Library/Application Support/TecplotLM*.
4. **Install** On the Easy Install window, click the Install button. If prompted, enter the name and password for an account with administrator privileges. If you do not have this account information, contact your System Administrator.



If you install the Reprise License Manager on a Linux or Macintosh platform, you may need to adjust your firewall settings. Refer to [“Firewall Settings for Hosting RLM”](#) on page 49.

## RLM Administration on Macintosh Platforms

The Reprise License Manager installs with a web server supported by a script that, unlike the Unix/Linux script installer, adds a start-up script to */Library/StartupItems/TecplotLM* that causes the RLM server to start automatically upon reboot. By navigating to */Library/StartupItems/TecplotLM* and entering the following commands from the command line, you can use this script to start, stop, or restart the server, respectively.

```
sudo ./TecplotLM start &
sudo ./TecplotLM stop
sudo ./TecplotLM restart &
```

In addition to these commands, you can use the RLM web server for control and perform most license manager administration. To learn more about the RLM Web Server, refer to [“The Reprise License Manager Web Server”](#) on page 36.

## **RLM License Setup on All Platforms**

The RLM installation gathers the information necessary to obtain your license file, and places it in a file named *myhostids.txt* in the RLM installation folder that you specified in the steps above. Include the information in *myhostids.txt* when requesting a license key file from Technical Support. Refer to [“Obtaining License Key Files”](#) on page 46 for more information.

Once you have received your *tecplotm.lic* license file, copy the file into the RLM installation folder, replacing the empty *tecplotm.lic* file created by your installation. You cannot run Tecplot 360 or Tecplot Focus until you have placed the *tecplotm.lic* file into this location.

## **The Reprise License Manager Web Server**

On all platforms, the Reprise License Manager includes a web server through which you can control and perform most license manager administration. In the following sections, you can learn about:

- [Accessing the RLM Web Server](#), and
- [Basic Operations of the RLM Web Server](#).

The web server includes additional documentation, accessible by clicking the “RLM Manual” button in the left pane of the license manager web page.

## Accessing the RLM Web Server

Because the RLM server can be accessed from a web-based interface, you can administer your license server from any platform, and need only a web browser to administer the server.

To access the web server from any machine on your network, type the following into the address bar of your web browser, replacing “localhost” with the name of the machine that hosts RLM:

http://localhost:5054

## Basic Operations of the RLM Web Server

Using the buttons on the left side of the license administration web page, you can control several functions of the license manager, including the following.

- **Retrieve server and license statuses**

Click the Status button to view the status of the RLM server, as well as the status of your ISV server (**teclmd**). The top line displays the name of the host on which RLM is running, as well as the port number.

- **Shut down the license servers**

Click the Shutdown button in the left-hand pane to display the Shutdown License Server screen. This will disallow any local Tecplot 360 installations from contacting the **Network** or **Site** license, which will shut down all local usage of the **Network** or **Site** license within a few minutes. However, you can still access the RLM web server and RLM operations (RLM itself will not shut down, only the ISVs).

- **Cause servers to re-read license files**

Click the Reread/Restart Servers button to re-read license files on your network.

- **Switch debug or report log files**

By clicking on the Switch Reportlog button, you can access debug reports and report logs.

- **Move the current report log file to a new name**

By clicking on the New Reportlog button, you can append the current report log to a new file for easy access.

- **Activate License**

This button is not yet supported. To activate a license, use the method described in [“RLM License Setup on All Platforms” on page 36](#).

For further information about the RLM web server, click on the RLM Manual button in the left-hand pane of the display window to open the web-based RLM User’s Manual, or view it online at this address: [http://www.reprisesoftware.com/RLM\\_Enduser.html](http://www.reprisesoftware.com/RLM_Enduser.html).

## **Additional License Administration Tools**

Your RLM installation also includes the `rlmutil` executable, which provides license manager utilities accessible through the command line. This section describes how to run `rlmutil` to operate RLM from the command line.

### **Accessing RLM from the Command Line Using `rlmutil`**

To run `rlmutil`, follow these platform-specific instructions.

**Linux/Mac Platforms** - On Linux or Mac platforms, navigate to the RLM installation folder and run `rlmutil` from a system startup script (type `./rlmutil` in the terminal or script window).

**Windows Platforms** - On Windows, navigate to the RLM installation folder, and type `rlmutil` into the command window.

The `rlmutil` executable contains instructions for controlling RLM using the `rlmutil` commands. For further instruction, read the following section.

### **Controlling RLM from the Command Line using `rlmutil`**

After `rlmutil` is running, follow the instructions included in `rlmutil` to execute commands. The following table lists the available license administration utilities accessible in the executable.

---

For a more comprehensive explanation, refer to the RLM End User's Guide online at

[http://www.reprisesoftware.com/RLM\\_Enduser.html](http://www.reprisesoftware.com/RLM_Enduser.html).

<b>Utility</b>	<b>Use</b>
<b>rlmdown</b>	Gracefully shuts down selected vendor daemons (both teclmd and all vendor daemons) on the license server machine
<b>rlmhostid</b>	Reports the hostid of a system
<b>rlmnewlog</b>	Moves existing report log information to a new file name and starts a new report log file with the existing file name
<b>rlmremove</b>	Releases a hung license to the pool of free licenses
<b>rlmreread</b>	Causes the license daemon to reread the license file and start any new vendor daemons
<b>rlmstat</b>	Displays the status of a license server system
<b>rlmswitch</b>	Controls debug log location and size
<b>rlmswitchr</b>	Switches the report log to a new file name

Refer to the platform-specific instructions on administering RLM for the best method of how to restart RLM after shutting it down.

## **Running Multiple License Managers**

If you choose to run multiple license managers on your network, contact your System Administrator for assistance. If you as the System Administrator need more information, refer to the Reprise User's Guide at

[http://www.reprisesoftware.com/RLM\\_Enduser.html](http://www.reprisesoftware.com/RLM_Enduser.html).

### **Additional Information**

For more information about your Reprise License Manager, or for various troubleshooting issues, refer to the next chapter, [Useful Information](#).

---

# Useful Information

---

This chapter covers useful knowledge on running Tecplot 360 on your machine(s). Topics include the following:

- [User Documentation Sources](#)
- [License Type Definitions](#)
- [Borrowing/Returning Licenses Over a Network](#)
- [Common License File Error Message](#)
- [Obtaining License Key Files](#)
- [Changing License Servers](#)
- [License File Syntax](#)
- [Network Licenses for Multiple Tecplot Products](#)
- [Troubleshooting RLM](#)
- [Firewall Settings for Hosting RLM](#)
- [Running Tecplot Products on a Laptop](#)

## User Documentation Sources

### *Where can I go for help understanding Tecplot 360?*

Tecplot 360 includes access to the following manuals, HTML Help, and an online forum to help you explore all of Tecplot 360's functionalities. Your installation includes these manuals in the *doc* folder within your installation folder.

- [Installation Guide](#) - These instructions give a detailed description of how to install Tecplot 360 on your machine.
- [Getting Started Manual](#) - New Tecplot 360 users are encouraged to work through the tutorials provided in the Getting Started Manual. These tutorials highlight how to work with key features in Tecplot 360.
- [User's Manual](#) - This manual provides a complete description of working with Tecplot 360 features.

- [Scripting Guide](#) - This guide provides Macro and Python command syntax and information on working with Macro and Python files and commands.
- [Quick Reference Guide](#) - This guide provides syntax for zone header files, macro variables, keyboard shortcuts, and more.
- [Data Format Guide](#) - This guide provides information on outputting simulator data to Tecplot 360 file format.
- [Add-on Developer's Kit - User's Manual](#) - This manual provides instructions and examples for creating add-ons for Tecplot 360.
- [Add-on Developer's Kit - Reference Manual](#) - This manual provides syntax for the functions included in the add-on kit.
- [Release Notes](#) - These notes provide information about new and/or updated Tecplot 360 features.
- [Integrated Help](#) - You can access an indexed, searchable form of information about Tecplot 360 by choosing "Contents" from the **Help** menu.

Our **Tecplot Talk** online forum serves as an ever-expanding resource for dynamic answers from other Tecplot product users as well as from Tecplot Technical Support personnel. Discussions, questions and answers cover topics of Tecplot 360, Tecplot Focus, Python Scripting, Add-on development, TecIO, and more. Visit the forum at [www.tecplottalk.com](http://www.tecplottalk.com).

## License Type Definitions

### *What license options do I have?*

Three basic license types govern usage of Tecplot 360 for Linux, Unix, Macintosh, and Windows platforms: **Evaluation** licenses, **Single-User** licenses, and **Network** or **Site** licenses. The installation procedure depends upon the type of license purchased. Your license number is provided on a yellow sticker inside your installation CD case. If you would like to upgrade your license, please contact Tecplot, Inc. or your distributor.

The official descriptions of license types reside in your Tecplot 360 installation folder, in the *license.html* file.

- **Evaluation License** - An **Evaluation** license allows one user to fully experience the software's features and functionality. This license has a usage time limit.
- **Single-User License** - A **Single-User** license allows a single user to install the software on up to three machines: one work computer, one home computer, and one portable computer. The one user agrees that no more than one installation will be in use at any given time. **Single-User** licenses cannot display remotely.
- **Network or Site License** - A **Network** or **Site** license allows users to run the software anywhere within a local area network (LAN), for a specified number of users. This floating license allows you to install the software on as many computers in your LAN as you desire. For this license type, you must run the software in conjunction with the Reprise License Manager (RLM).

To set up a **Site** license, your organization must designate one person as the official contact for the license. That contact will act as communicator with Tecplot, Inc. He or she will receive a set of license key files from Tecplot, Inc. Once you have obtained your *tecplotm.lic* license key file from your contact, place this file in your RLM installation folder.

## **Borrowing/Returning Licenses Over a Network**

### ***How does a network license work?***

When you open Tecplot 360 or Tecplot Focus from a local machine on the network, the Tecplot product contacts the license server via TCP/IP and “checks out” a key from the license manager. When you exit the program, the Tecplot product “returns” the key. The license manager limits the number of Tecplot 360 or Tecplot Focus sessions currently active to the number of users allowed by the license.

## The Reprise License Manager Daemon

The Reprise License Manager runs as a daemon application (**teclmd**) on the network server. This daemon manages the allocation of keys to Tecplot 360 and Tecplot Focus users. During the time that a local machine borrows a license, Tecplot 360 or Tecplot Focus on that machine routinely sends out a signal to the server. If RLM does not get a signal after a certain period of time, RLM frees up the borrowed license for that instance of Tecplot 360 or Tecplot Focus. If Tecplot 360 or Tecplot Focus tries to contact the network server after the server has freed that license, Tecplot 360 or Tecplot Focus will no longer allow the user to redraw, but will still allow the user to save the current layout and exit. The user must check out a new license from RLM to regain full use of Tecplot 360 or Tecplot Focus.

In order to run Tecplot 360 or Tecplot Focus, the machine that runs the Reprise License Manager daemon must have a license key file installed. If you do not have a license key file, see the instructions located in [“Obtaining License Key Files”](#) on page 46.

## Borrowing a License on a Local Network

1. To set the borrow period and initiate borrowing, go to the **Help** menu and choose “Borrow Network License”. If this options appears gray, you have chosen and configured a **Single-User** license or **Evaluation** license. You will need to obtain and configure a **Network** or **Site** license to connect to your server.
2. In the “Borrow a License” field of the **Enter Value** dialog, enter the number of days you would like to borrow a **Network** license, and click the OK button.
3. An information dialog appears and states whether the license was borrowed successfully.
4. You may continue your session of Tecplot 360, or exit and disconnect from the server to commence borrowing. The usage period for your borrowed license will begin the first

time you run Tecplot 360 while disconnected from the license server.

### Returning a Borrowed License

1. To return a borrowed license, go to the **Help** menu and choose “Return Network License”.
2. An information dialog displays whether the license was returned successfully.

To view the license number and borrow status, choose “About Tecplot 360” from the **Help** menu.



Although using the Tecplot 360 **Help** menu is the easiest way to borrow a license, you can also borrowing a license using the command line. Set the environment variable **RLM\_ROAM= [days]** , and then run Tecplot 360 while connected to the server. Then disconnect from the server and run to commence borrowing. To return the license, set **RLM\_ROAM= -1** and run Tecplot 360 while connected to the server. After returning the license, be sure to remove the **RLM\_ROAM** variable, or set **RLM\_ROAM=0** before running Tecplot 360 again. For more information, refer to the [RLM End User's Guide](#) under “Roaming”.

## Common License File Error Message

### *I cannot get my license key to work!*

When you or your System Administrator installs Tecplot 360, you may encounter this error:

“The license file *tecplotm.lic* doesn't contain a valid key.”

This error message appears if your installation folder does not contain the *tecplotm.lic* file, or if that file does not contain a valid license key.

If you have a **Network** or **Site** license, contact your System Administrator. If you have a **Single-User** license, contact [Technical Support](#) to obtain a valid license key file.

If you know that you have a valid license file, the file may not have been copied correctly into your installation folder, or Tecplot 360 may be referencing a different folder for the license file. Try re-copying

your *tecplotm.lic* into the installation folder, and check that Tecplot 360 recognizes the folder containing the license file as the installation folder. By default on Windows platforms, Tecplot 360 considers *C:\Program Files\Tecplot\Tec360 2009* the installation folder.

## Obtaining License Key Files

### *How do I get a license key?*

To request a license key file (*tecplotm.lic*), use one of these methods:

- **Internet:** [www.tecplot.com/activate](http://www.tecplot.com/activate)

Visit this web page and follow the instructions to receive your license file fastest. If you wish to activate a **Site** license, though, you must use another method.

- **E-mail:** [support@tecplot.com](mailto:support@tecplot.com).
- **Telephone:** +1-425-653-9393

Remember to specify your [License Number](#) and include your Host ID information (*myhostids.txt*) when requesting a license key file.

You can find your Host ID information (*myhostids.txt*) in the following location, according to your installation type and platform.

**All Platforms:** A **Single-User** installation generates and saves *myhostids.txt* in your Tecplot 360 installation folder<sup>1</sup>. For a **Network** or **Site** installation, you need to request a license only for the host machine on your network; *myhostids.txt* for the host machine is generated when you install the Reprise License Manager on that machine and is automatically saved in the RLM installation folder.

**Linux, and Mac and Unix Platforms:** For a **Network** or **Site** license installation on your host machine, if you cannot find the *myhostids.txt* file in your RLM installation folder, you can run the **setuplic** utility (located in the RLM installation folder) and choose:

1. **Get HOSTID information.**

---

1. On Windows platforms, Tecplot 360 installs by default to *C:/Program Files/Tecplot/Tec360 2009 R2*.

## Changing License Servers

### *What if I want to change which machine hosts my network?*

Your license key links to your Host ID, which is based on your license server's MAC address or machine name. If your operating system changes, or if you wish to move the license manager to a different server, send a request for a new key file to [Technical Support](#), or to your local distributor. Include your license number and your new Host ID in your request.

## License File Syntax

### *When and how can I edit my license file?*

If you have a **Network** or **Site** license, the license file, *teplotm.lic*, contains the network server name, the path to the **teclmd** daemon executable, and feature information.

You cannot edit the license file for a **Single-User** license, or the server's license file for a **Network** or **Site** license.

Since the local license file of a **Network** or **Site** license connects the installation to the server, however, you can manually edit the local license file in this instance. For a local installation with a network license, the *teplotm.lic* file uses this syntax:

```
HOST          myserver 0 27100
ISV           teclmd
```

This license will work for both Tecplot 360 and Tecplot Focus, if the host machine has both products installed with the appropriate license file configured.

## Network Licenses for Multiple Tecplot Products

### *What if I want to have both Tecplot 360 and Tecplot Focus on my network? Do I get two license files?*

If you procure licenses to install both Tecplot 360 and Tecplot Focus on your network, you will receive one license file for your server that enables both Tecplot 360 and Tecplot Focus on your network. One *teplotm.lic* file will contain both license keys.

## Troubleshooting RLM

### *I cannot get my connection to RLM to work!*

If you experience problems connecting to your license manager, try changing the following items in your *tecltm.lic* file:

- Use the license server's IP address in place of the machine name (HOST). To determine the IP address of a Windows machine, type **ipconfig** in the command prompt.
- Make sure that ISV is set to **teclmd**.
- If you have **teclmd** or the FLEXnet License Manager installed on your machine, follow the troubleshooting steps in the following section.

### *I cannot install RLM successfully on my server!*

The daemon for Reprise License Manager (our current license manager) and the one for FLEXnet License Manager (our previous license manager) are both named **teclmd** and so cannot run at the same time. If your machine acts as the network server and still has FLEXnet License Manager installed on it, the FLEXnet **teclmd** daemon may still be running (which prevents the RLM **teclmd** daemon from running). To stop the FLEXnet daemon from interfering:

1. Stop the **teclmd** daemon from running. To do this, either:
  - a. Select "Run" from the **Start** menu and type **services.msc**, or
  - b. Right-click on My Computer and select "Manage" from the context menu to open the **Computer Management** dialog. In the navigation pane on the left, select "Services" from the "Services and Applications" directory.

In the Services pane of the **Computer Management** dialog, right-click on "teclmd" and choose "Stop".

Or, from the command line, type

```
net stop teclmd.
```

2. Next, type

---

```
sc delete teclmd
```

from the command line to delete `teclmd`. To use this command on a Windows Vista machine, first elevate the command line to “Run as Administrator” (by right-clicking on the Command Prompt executable in the **Start** menu).

## Firewall Settings for Hosting RLM

### *Will my machine’s firewall need any special configuration to communicate with RLM?*

If you have a **Network** or **Site** license, the machine on your network that hosts the license manager must allow other machines to contact RLM. To allow for this:

- **Windows Platforms** The RLM server installation for Windows platforms automatically adds `rlm.exe` to the Windows firewall exceptions list (accessible from the **Control Panel**). Usually, no manual configuration is needed.
- **Macintosh/Linux Platforms** On Macintosh and Linux platforms, the RLM server license file forces `teclmd` to operate on port 27100; RLM operates on port 5053, and the web server operates on port 5054. To successfully manage licenses, open at least ports 27100 and 5053. Open port 5054 only if you want the web server available from other machines in your network.

The procedure to open these ports varies between platforms.

On the Mac OS X 10.5 platform, follow these steps:

- a. Open **System Preferences** from the Apple menu.
- b. Click the Security button.
- c. Switch to the Firewall page.
- d. If the page is locked, click the lock and enter the administrator’s name and password to allow changes.
- e. Select “Set access for specific services and applications”.

- f.* Click the + button, navigate to the install directory (*/Library/Application Support/Tecplot LM* for a .pkg installation), select rlm, and click Add.
- g.* Repeat [Step f.](#) to add `teclmd`.
- h.* Click the lock to prevent further changes, and close **System Preferences**.

## **Running Tecplot Products on a Laptop**

### *Can I run Tecplot products on my laptop?*

If you use Tecplot 360 or Tecplot Focus on a laptop, you must have your network card enabled (though not necessarily connected).



