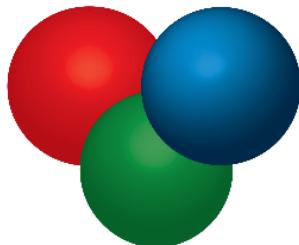


# ZONA License Server (ZLS)

Windows Quick Start Guide

Install First



# ZONA TECHNOLOGY

Your Home for Computer-Aided Engineering (CAE)  
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# Welcome to the ZONA product license manager, ZLS!

Used for both node-locked and floating license installations

## Platforms:

Windows / Linux

(32 and 64-bit)

## Requirements:

JAVA JRE (version 1.6 or higher) or JAVA JDK

SafeNet Sentinel Protection Installer (USB Dongle hardware)

## 1 ADMINISTRATIVE PRIVILEGE



You must have administrative permissions  
when installing the ZONA License Server  
(ZLS)

- ✓ If you are not logged in as Administrator, right mouse click on the `setup.exe` installer and select "Run as administrator".

## 2 JAVA INSTALLATION



Java must be installed properly and in your  
System PATH Environment Variable!

Download the latest version of Java at <https://www.java.com>

1. Java Runtime Environment (JRE) needs to be installed, working, and accessible on **both the Server and Client machines** for ZLS to work.
2. The System Path Environment Variable must be updated, on all computers hosting ZLS and installed ZONA software, to include the [bin] folder location where Java executables reside.

System Environment Variables on Windows Vista/7/8 can be set from:

- Control Panel
- System and Security
- System
- Advanced System Settings
- Environment Variables
- Edit System Variable

If not already in the Path, append with the JRE [bin] folder, for example:

```
...;C:\Program Files\Java\jre7\bin;
```

*Note: paths are separated by semicolons.*

3. To test java, open an MS-DOS command prompt window and type, `java -version`, press *Enter*. The following response should appear:

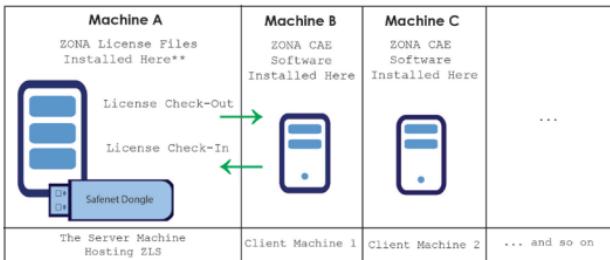
```
C:\> Administrator: Command Prompt
C:\Users\Spartacus>java -version
java version "1.7.0_51"
Java(TM) SE Runtime Environment (build 1.7.0_51-b13)
Java HotSpot(TM) 64-Bit Server VM (build 24.51-b03, mixed mode)
```

*If not, Java is either not installed properly or the Path Environment Variable is not set properly.*

## 3 INSTALLATION TYPES

### Floating License Installation

1. ZLS is installed on Machine A connected to the network.
2. ZONA Computer Aided Engineering (CAE) software (e.g., ZAERO, ZEUS, etc.) is installed on other Machines B, C, etc., which are connected to the network with System Environment Variables (ZLS\_ZAERO=..., ZLS\_ZEUS=..., etc.) pointing to the IP address of Machine A.
3. During execution of ZONA CAE software, licenses are checked out from ZLS on Machine A and checked back in to ZLS when the CAE software terminate execution.
  - ✓ Valid ZONA CAE software licenses must be installed in the ZLS home directory on Machine A for ZLS to run.
  - ✓ The Safenet Security dongle (flash drive hardware) must be kept in a USB port on Machine A for ZLS to run.



\*\* Installed under:

- for 32-bit machnies [c:\Program Files\ZONA Technology, Inc\ZONA License Server]
- for 64-bit machines [c:\Program Files (x86)\ZONA Technology, Inc\ZONA License Server]

## Node Locked Installation

1. ZLS is installed on a Machine D
2. ZONA CAE software is installed on Machine D with System Environment variables (ZLS\_ZAERO=..., ZLS\_ZEUS=..., etc.) set to 'localhost'; e.g., ZLS\_ZAERO=localhost.
3. During ZONA CAE software execution, licenses are checked out from ZLS on Machine D and checked back in to ZLS when the CAE software terminate execution.
4. Valid ZONA CAE software licenses must be installed in the ZLS home directory on Machine D for ZLS to run.
5. The Safenet Security dongle (flash drive hardware) must be kept in a USB port on Machine D for ZLS to run.



## 4 SafeNet Sentinel SuperPro Security Device (Dongle)



The Dongle is a hardware USB security device that needs to be attached to the machine hosting the ZONA License Server.

<http://www.safenet-inc.com/>

**WARNING: The supplied dongle needs to be plugged into a USB port and stay there all times while the ZLS is running. Removing the dongle during execution of ZONA software will cause the ZONA software to terminate abnormally.**

**Side Note:** The SafeNet Sentinel SuperPro® software is a separate software owned by SafeNet that automatically installed during the installation of the ZONA License Server (ZLS). However, this software can be separately installed (if needed) by running the `SentinelProtectionInstaller_7.6.6.exe` (or latest included version) software that can be found on the ZLS Install CD.

## 5 Firewall



Windows Firewall needs to be set to allow for communication of ZLS (i.e., via Java calls) and the SafeNet Sentinel SuperPro Dongle.

ZLS uses the java virtual machine with TCP port 3333. The Sentinel Protection Server and Key Server use UDP ports 6001 and 7001, respectively. The Sentinel SuperPro also needs TCP port 6002 for its monitoring tool. These listed programs and ports cannot be blocked by the a firewall or the ZLS will not function properly. **Note:** if necessary, an Inbound and Outbound Firewall Rule can be set manually from Control Panel\System and Security\Windows Firewall, [the Advanced settings tab].

## 6 Installing ZLS

After identifying which machine will act the server for ZLS, insert the CD-ROM into the CD-ROM drive.

ZLS is installed on a machine to host the ZONA CAE software licenses.

Follow the on-screen instructions. (In the event that the setup application does not automatically execute, open up Windows Explorer, click on the CD-ROM drive to view the CD contents, and double click on `setup.exe` to launch the application.)

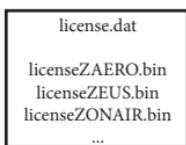
You must install ZLS with administrative privilege and a reboot is required if ZLS is to run at the system level (i.e., via the ZONA License Service).

Selection of which version to install is done during installation of the ZONA License Server. 32-Bit and 64-Bit installations can be made to support 32- and 64-bit Java installations, respectively.

When ZLS executes for the first time, you may be prompted, by Windows, to allow for ZLS communication with Java (i.e., over port 3333). **YOU MUST CLICK "ALLOW" FOR ZLS TO BE ABLE TO FUNCTION NORMALLY.**

Detailed information on the ZLS Installation can be found in the ZONA License Server User's Manual that is installed to the [ZLS home directory\Manuals] folder.

## 7 ZLS License Files



ZLS requires valid License Files containing ZONA Product Activation Keys (PAK's) to run.

ZLS requires valid license files to run. These files contain license keys for each ZONA CAE software product licensed. The license keys reflect which ZONA products can be executed under the ZLS.

ZLS Licenses are sent via email or can be retrieved by the emailed download link.

You must fill out the "Point of Contact" (POC.doc or POC.pdf) file and email it to ZONA Technology in order to receive the ZLS license files. The POC file can be found on all of ZONA CAE software install CD's.

In order to run the ZLS, the license keys must be installed in the ZLS home directory location.

The license.dat file contains all of the PAKs for all licensed ZONA CAE products. There also needs to be one associated licenseProductName.bin file corresponding to each licensed ZONA CAE product all located within the ZLS home directory.

A new license can be loaded into ZLS by using the "Load License File" button in the ZONA License monitor or through manual java commands. Please see the ZLS User's Manual for more details.

## 8 Troubleshooting Suggestions



If you experience trouble getting ZLS to run, there are a couple things you can try that can help identify the problem.

### 1. To manually to get feedback from ZLS

- Open an MS-DOS command prompt by right mouse clicking on the icon and select "Run as administrator".
- Use the Change Directory (cd) command to migrate to the ZLS home directory location, e.g.,  
cd C:\Program Files (x86)\ZONA Technology, Inc\ZONA License Server
- Type, `java zls_server` and press [Enter], then examine the ZLS response information.

### 2. View the ZLS log file

- Using Windows Explorer, migrate to the folder where ZLS performs its read/write I/O functions, located under the APPDATA folder location specified by the APPDATA environment variable. To view this environment variable, open an MS-DOS command prompt window and type:  
`set APPDATA` and press [Enter]
- Using Windows Explorer, go to this location and open the [ZONA] folder. Next, open the `zls_log` file using a text editor, such as Notepad. ZLS logs all actions to this file, which can sometimes be used to identify problem areas.

*Please refer to the ZLS Users Manual (Chapters 5 and 8) for more details on troubleshooting options. Otherwise, please contact ZONA Technology, Inc. for any ZLS support related questions.*