

ZOC LICENSE SERVER

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1 Introduction and Privacy

This document describes the basic steps to configure and install a ZOC License Server.

The purpose of the license server is to dynamically assign licenses to computers running the ZOC Terminal software. This will relieve administrators of the task of assigning static licenses to workstations and keeping track of them when new computers are installed or existing computers are decommissioned.

The dynamic licensing will assign a license to a user/computer when the ZOC Terminal software is started. The license will then remain locked (assigned to that user/computer) until the end of the day. After midnight (local time on the computer running the license server) it will become available again for the same or another computer requesting a license.

Privacy statement: These operations are entirely performed inside the user's network and on the user's server. No information is transmitted back to emtec.com or to other servers outside the user's network. The only exception, where the license-server theoretically could contact an outside server, is the email notification feature. This feature however is entirely under the user's control, i.e. the user configures which mail server is used and who receives the administrative mails.

2 Requirements

The use and installation of a ZOC License Server requires the following:

1. A suitable multi-user license for ZOC Terminal and a corresponding zochook.ini file.
2. A TCP network/internet connection that allows workstations to contact the license server when the ZOC Terminal software is started.
3. A (non-dedicated) Windows computer or virtual machine, which is available/running 24/7 (or at least during times when users start the software). The computer needs to be able run a Windows background service. Disk and memory requirements are neglectable.
4. Administrative rights to install a service on said computer.
5. At least one instance of ZOC Terminal installed on a client computer (see [ZOC Deployment.pdf](#) for instructions on how to finally deploy that reference installation to the end users).

3 Installation and Configuration

3.1 License-Server Program Folder

A folder where the exe file for the ZOC License Server will be placed. You can create a folder inside the `C:\Program Files` folder, e.g. `C:\Program Files\ZocLicenseServer` or a folder in a different suitable location. This will happen through the setup program of the license server.

3.2 License-Server Data Folder

If the program folder is write-protected or requires administrative permissions (e.g. folders. `C:\Program Files` are not generally writable and should not be used to store program data), you will need a writable folder to hold data files and logfiles, e.g. create the folder `C:\ProgramData\ZocLicenseServer\Data`

3.3 LicenseServer.ini

Inside the program folder, create a `LicenseServer.ini` file that configures the license server (see below for a full sample).

The `LicenseServer.ini` file consists of the following entries (some are optional):

`BINDADDR`: This entry tells the server at which IP address and port it should listen for licensing requests. The value has the format `SERVER@<ip>:<port>`

`SERVERWORKDIR`: The location of the data folder (this entry is optional if the program-folder is writable and if data files should be placed in the program-folder instead of a separate folder).

`EMAILSMTPHOST`: IP and port of an SMTP server in the form of `<ip>:<port>`

`EMAILSMTPAUTH`: Username and password to authenticate at the SMTP server in the form of `<username>:<password>` (this entry is optional if the SMTP server does not require authentication).

EMAILTO: Email address to receive notification emails (e.g. errors or high-water marks).

EMAILFROM: Email address to use as from-address in notification emails.

DEBUGMAXUSERS: A number to decrease the maximum users of the license (optional, only useful to test licensing limits)

Example:

```
// bind-address and data-directory and pool
BINDADDR="192.168.1.3:30201"
SERVERWORKDIR="C:\ProgramData\ZocLicenseServer\Data"

// email settings (SMTP/SSL, auth, from, to)
EMAILSMTPHOST="192.168.1.5:587"
EMAILSMTPAUTH="you@somewhere.com:Pw-123-secret"
EMAILTO="you@somewhere.com"
EMAILFROM="you@somewhere.com"
```

3.4 Installation

1. Run the setup to install the `licensesrv.exe` to the program folder.
2. Copy your `LicenseServer.ini` to the program folder (you can also rename and modify the template file, which you will find in the program folder).
3. Copy the `zochook.ini` file which contains your license to the data folder (if you do not have a separate data folder configured in the `licenseserver.ini` file, then copy the `zochook.ini` file to the program folder).

3.5 Initial Testing

3.5.1 License-Server

Open a Windows command prompt (e.g. double click the “License Server Shell” icon that appears after running the setup) and go to the program-folder. Then type

```
licensesrv.exe /DEBUG
```

This will run the license server as a foreground process. This has the benefit, that output will appear directly in your command window. Ideally it will show the IP address on which it will listen for request and other output messages saying that workers are reading and waiting. If you configured an email address, you will also receive an email saying that the server is now running.

Otherwise you may see error messages, e.g. about missing LicenseServer.ini file, not being able to listen on the given IP address or the working directory missing etc. When you see an error message, try to fix it or contact our support.

3.5.2 Configuring “ZOC Terminal”

On a computer with ZOC Terminal installed, copy the `zochook.ini` file to the ZOC program-folder (e.g. to `C:\Program Files\ZOC7`).

If your instructions mention a `serveraddr.txt` file, create a file of that name in the ZOC program folder (e.g. `C:\Program Files\ZOC7\serveraddr.txt`) and use an editor to put the server-address and port into that file (just one line of text, e.g. `192.168.1.3:30201`).

Then double click the ZOC icon.

Ideally, ZOC will start and if you check Help-menu > Product Information you will see the support ID of your license. At the same time, the server window will show an incoming request and an answer.

3.6 Running the License Server as a Windows-Service

Once the initial testing works fine, press Ctrl+C in the window which runs the license server in debug mode. This will stop the server.

Now install the license server as a background service by typing

```
licensesrv.exe /INSTALL
```

and then

```
licensesrv.exe /START
```

With this the license server will run in the background. (When the Windows server is restarted, the license service will automatically start.)

Start a ZOC client again, it should be licensed just the same (without error).

To check progress (e.g. high-watermarks) check the `licenseserver.log`, which you will find in the license server data folder. In case of problems also check the Windows Event-Viewer.

3.7 Support

For any questions or further technical details please contact EmTec support or m.schmidt@emtec.com directly.