

# TOMNET INSTALLATION GUIDE

Marcus M. Edvall<sup>1</sup> and Per Strandberg<sup>2</sup>

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<sup>1</sup>Tomlab Optimization Inc., 855 Beech St #121, San Diego, CA, USA, [medvall@tomopt.com](mailto:medvall@tomopt.com).

<sup>2</sup>Tomlab Optimization AB, Västerås Technology Park, Trefasgatan 4, SE-721 30 Västerås, Sweden, [per.strandberg@tomopt.com](mailto:per.strandberg@tomopt.com).

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# 1 Installation Guide Overview

This guide describes the installation of the TOMNET Optimization Environment for Windows.

There are basically two steps: Run the InstallShield installation and install license files.

Howevr, the first step is to [register as a TOMNET user](#) and download the distribution. Go to Section 3 and follow the instructions to obtain a copy of TOMNET. The Microsoft .NET Framework assembly cache will be updated during the installtion, see Section 4.

It is important the required environment variables are set (see Section 5). The final step is to install the license file(s), which is described in Section 7.

## 2 Supported platforms

TOMNET supports Windows 32-bit (.NET 2.x, .NET 3.x).

## 3 Downloading TOMNET

In order to download TOMNET a myTOMNET account needs to be created at: <http://tomopt.com/tomnet/>. After this, proceed to Download → Products.

**NOTE:** The COMPAQ Run Time Kit may be needed. It can be found on the download page.

## 4 Installing TOMNET

An InstallShield installer extracts the TOMNET files and automatically updates the PATH environment variable to point at directories containing dynamic libraries required by some TOMNET modules. It also attempts to add certain files to the assembly cache. This can be done manually as well:

Control Panel → Performance and Maintenance → Administrative Tools → Microsoft .NET Framework \*.\* Configuration.

Expand My Computer, right-click on Assembly Cache, choose Add..., then applicable .NET dll and exe files (all files located in C:\TOMNET\assembly).

There might be a need to reboot the computer after installation.

### 4.1 Upgrade for Windows

With Add/Remove Programs from the control panel, remove the TOMNET Optimization Environment. Install the new version in the same location. As defaults in TOMNET may change over time a backup copy of the old version is recommended.

### 4.2 Uninstall for Windows

To uninstall TOMNET on Windows select TOMNET in the list of programs under Start → Settings → Control Panel → Add or Remove Programs.

## 5 Setting the environment variables

TOMNET requires the directory `C:\TOMNET\dll` in the environment variable `PATH` (assuming TOMNET was installed in `C:\TOMNET`).

TOMNET also requires that the environment variable `TOMNET_LICENSE_FILE` is set to `C:\TOMNET\tomnet.lic` (assuming TOMNET was installed in `C:\TOMNET`).

The TOMNET installer will try to set these variables automatically, and also prompt a warning if it fails. It is possible to set these variables manually when needed.

In the installation folder the bat-file `tnvars.bat` is included. If run from the console the current session will have the `PATH` and environment variables updated. Please note that these changes are not permanent.

### 5.1 Setting the PATH variable

To set the `PATH` environment variable permanently on Windows, select: Control Panel → System → Advanced → Environment Variables. Assuming TOMNET was installed in `C:\TOMNET`, append (or prepend) `C:\TOMNET\dll` separated to the other entries with a semi-colon (;) to the `PATH` environment variable.

One can also set the `PATH` environment variable temporarily in the command prompt. This is accomplished by:

```
C:\> set PATH=%PATH%;C:\TOMNET\dll
```

### 5.2 Setting the TOMNET\_LICENSE\_FILE variable

To set the `TOMNET_LICENSE_FILE` environment variable permanently on Windows, select: Control Panel → System → Advanced → Environment Variables. Click the New button under User variables and enter:

Variable Name: `TOMNET_LICENSE_FILE`

Variable Value: `C:\TOMNET\tomnet.lic`

(assuming TOMNET was installed in `C:\TOMNET`).

One can also set the `TOMNET_LICENSE_FILE` environment variable temporarily in a command prompt:

```
C:\> set TOMNET_LICENSE_FILE=C:\TOMNET\tomnet.lic
```

### 5.3 Controlling the environment variables

Open a new command prompt (Start → Run, then enter `cmd`) and type:

```
C:\> path
```

`C:\TOMNET\dll` should be found in the beginning or end of the output.

The command

```
C:\> echo %TOMNET_LICENSE_FILE%
```

should return `C:\TOMNET\tomnet.lic` and not `%TOMNET_LICENSE_FILE%`.

## 6 Controlling the Global Assembly Cache

TOMNET requires the assemblies in `C:\TOMNET\assembly` to be in the Global Assembly Cache (GAC). This is taken care of automatically by the installer if the user running the TOMNET installer is a local Administrator.

If the installer fails to add the assemblies to the GAC a warning (see below) is prompted and the user must do this manually.

**NOTE:** If no warning is prompted there is no need to add the assemblies manually.

### 6.1 Adding assemblies Manually

**NOTE:** You need to be logged in as a local administrator or power user to Manually add assemblies.

If the installer prompts a warning (see below) the installer is unable to add the TOMNET assemblies to the GAC and the user must add them manually.



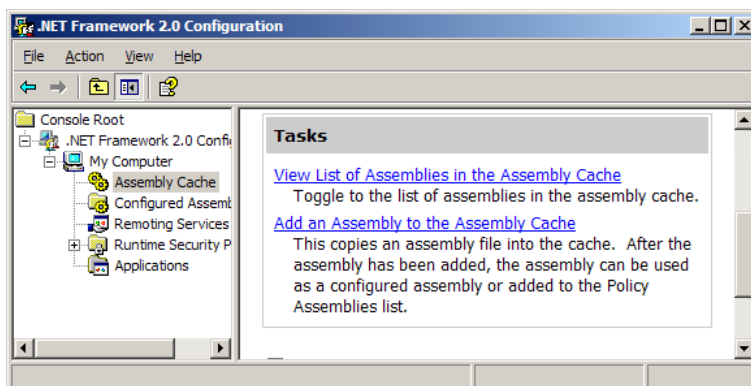
To add the assemblies manually the user adding them must be logged in as a local administrator or a power user.

- Select Start - Settings - Control Panel.
- Double-click on Administrative Tools.
- Double-click on Microsoft .NET Framework 2.0 Configuration.
- Click on Add an Assembly to the Assembly Cache.
- Select all files in the folder `C:\TOMNET\assembly`.

### 6.2 Running TOMNET without adding items to the GAC

If the TOMNET assemblies are not stored in the GAC the user will typically encounter the following exception:

```
Unhandled Exception: System.IO.FileNotFoundException:
Could not load file or assembly 'TOMNET, Version=1.0.0.0,
Culture=neutral, PublicKeyToken=1f42b31139aa4a50' or one
of its dependencies. The system cannot find the file
specified.
```



It is possible to use the TOMNET Optimization Platform without adding the assemblies in the GAC, but it is not recommended except for temporary usage. In this case all assemblies required to run TOMNET (the files in the folder `C:\TOMNET\assembly`) must be copied into the folder an executable file is run in.

## 7 Installing TOMNET license files

In order to run the TOMNET solvers a valid license file is needed. There is a demonstration license available after registration at the web site (<http://tomopt.com/tomnet/>). When ordering TOMNET a valid license file including the modules ordered will be delivered. The license file is called `tomnet.lic`.

The file should be put in the TOMNET root directory (the default location is `C:\TOMNET`). In case of a demo license, there is an additional file `tomnet.dat` which also should be put in the TOMNET root directory. It is **important** that this file is writable for the user running TOMNET.

## 8 Starting TOMNET

When the files are installed and the license is setup correctly, TOMNET can be used.

If an installation problem should occur, do not hesitate to contact support at [support@tomopt.com](mailto:support@tomopt.com).

The Quickstart guide (available at <http://tomopt.com/tomnet/download/manuals/>) is good for getting started with TOMNET.