

ESATAN-TMS

Installation Notes

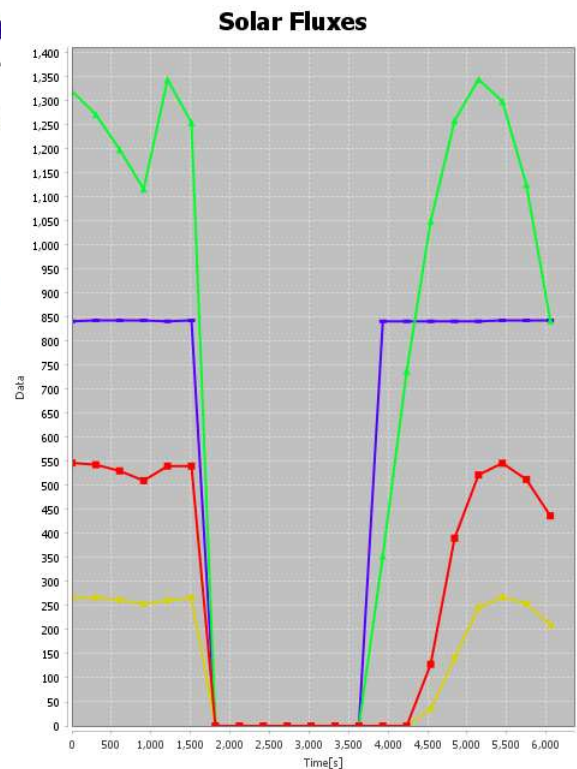
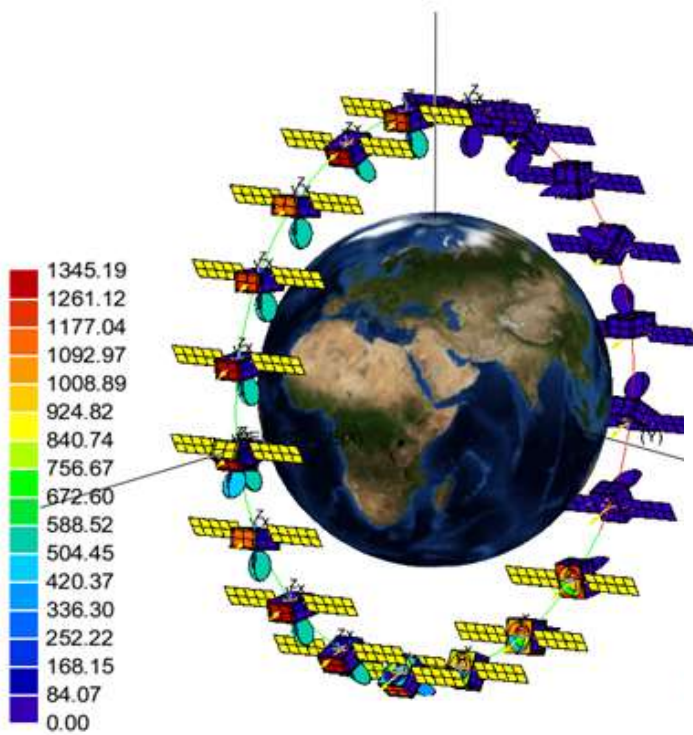


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1 System Requirement

General Requirements

Display	Minimum 1024 * 768
Graphics Card	1024MB Minimum memory with 2048MB recommended
Physical Memory	Recommended minimum 2GB (more may be required for larger models)
Disk Space	Typically 600Mb for installation
Virtual Memory/Swap Space	Minimum 2Gb
Software	Java Run-time Environment (JRE), see the platform specific details below for the required Java version.
Fortran Compiler	See the platform specific details below for the required version
Libraries	OpenGL 3.3 or above required
Licences Libraries	FLEXlm 11.14

Platform Requirements

PC MS Windows 10 version 1709 (64-bit)

- Java version 9.0.4 is now installed by ESATAN-TMS under the installation directory
- C/Fortran compiler: GCC v4.9.1 from the MinGW-W64 project (provided with installation)
- FORTRAN compiler assumed pathname: (provided with installation)

Linux Kernel Number 3.10.0-1062.4.1.el7 (64-bit)

- Tested on CentOS Linux release 7.7.1908 (Core)
- Java version 9.0.4 is now installed by ESATAN-TMS under the installation directory
- C/FORTRAN compiler: gcc/gfortran 4.8.5
- Fortran compiler assumed pathname: /usr/bin/gfortran
- Linux Standard Base (LSB) 4.1 required

IMPORTANT NOTE: Please be aware that the FLEXlm libraries were updated with ESATAN-TMS 2019. We are now using FLEXlm 11.14. If you are running a server and are updating from an earlier version, you may need to re-run it with our latest executable provided in the licences directory.

Please note that ESATAN-TMS is provided on all platforms with its own version of the library **libGLU**. This library may already be available on your system and therefore conflict with the provided one. If so, please remove the version located in the installation directory under Radiative/lib/esarad/lib.

2 Installation Instructions

If you wish to view the PDF Help pages, Adobe Acrobat Reader must be installed on your machine. Acrobat Reader can be downloaded free of charge from [the Adobe web site](#).

PC Installation Instructions

This process requires administrator access on Windows 10 platforms and therefore you must login under an administrator account in order to install Java.

The PC installation is contained in the zip file *ESATAN-TMS2020_Windows.zip*. Once you have unzipped the file, run *ESATAN-TMS2020_Windows.exe* and follow the on-screen instructions.

Note that the installation directory path name must not contain any white space - therefore you cannot install ESATAN-TMS in "Program Files" because of the space between the "m" and the "F". In addition, you cannot execute the setup.exe from such a directory.

We strongly recommend that you install ESATAN-TMS on the local machine and not on the network.

The following environment variables must be set up for each user:

- The ESATAN_TMS_HOME environment variable should point to the directory that will/does contain the .esaradrc file - this file contains the user preferences used for a session of ESATAN-TMS, such as the location of the model directory, the user's preferred editor, etc. This file is generated automatically by ESATAN-TMS if it does not exist. If you wish to use separate model directories on different projects (for example) then the ESATAN_TMS_HOME variable can be used to switch between them by having one .esaradrc file per project.

Example: To have your models stored in C:\ESATAN_TMS_Model, you have to set ESATAN_TMS_HOME=C:\ESATAN_TMS_Model\

- The PATH environment variable will need to contain the following arguments in order to run ESATAN-TMS in a batch mode: path to ESATAN-TMS\2020\Radiative\bin and ESATAN-TMS\2020\Radiative\lib\esarad\lib.

Example:

Add C:\ESATAN-TMS\2020\Radiative\bin; C:\ESATAN-TMS\2020\Radiative\lib\esarad\lib; to the PATH variable to enable the batch mode for ESATAN-TMS

In order to run ESATAN-TMS, it is necessary to start the licence manager. This is achieved with the ESATAN-TMS Start menu "Start Licence Manager"

If you wish to set up the licence manager to run as a service, use the lmtools utility located in the ESATAN-TMS Start menu group. Full instructions for the configuration of the licence manager are provided in the FLEXnet End User Guide available from the Start menu.

Linux Installation Instructions

Copy the zipped tar file to where you wish ESATAN-TMS to be installed:

```
cp ESATAN-TMS2020_linux.tgz X
cd X
```

where **X** is the chosen installation directory

Extract the files from the archive thus:

```
tar xf ESATAN-TMS2020_linux.tgz
```

Once ESATAN-TMS has been extracted change directory to the ESATAN-TMS directory and run install

```
cd ESATAN-TMS
./install
```

This will generate the ESATAN-TMS executables in ESATAN-TMS directory.

The following environment variables need to be set up for each user:

- The ESATAN_TMS_HOME environment variable should point to the directory that will/does contain the .esaradrc file - this file contains the user preferences used for a session of ESATAN-TMS, such as the location of the model directory, the user's preferred editor, etc. This file is generated automatically by ESATAN-TMS if it does not exist. If you wish to use separate model directories on different projects (for example) then the ESATAN_TMS_HOME variable can be used to switch between them by having one .esaradrc file per project.

Example: If you wish to store your models in the following directory /user_name/ESATAN-TMS/ESATAN_TMS_Models/, you will need to set type:

```
ESATAN_TMS_HOME=/user_name/ESATAN-TMS
export ESATAN_TMS_HOME
```

- The **PATH** environment variable will need to contain the following arguments in order to run ESATAN-TMS in a batch mode: path to ESATAN-TMS\Radiative\bin, ESATAN-TMS\Radiative\lib\esarad\lib and ESATAN-TMS\Thermal\bin.

Example:

```
PATH=X/ESATAN-TMS/Radiative/bin:$PATH
export PATH
where X is the chosen installation directory.
```

In order to run ESATAN-TMS it is necessary to start the licence manager. This is achieved with lmgrd that can be found in the "licences" directory under the ESATAN-TMS installation. The licence can be started with the following command:

```
lmgrd -c esatantms.lic
```

Full instructions for the configuration of the licence manager are provided in the FLEXnet End User Guide located in the ESATAN-TMS/radiative/lib/doc/pdf directory.

ESATAN-TMS Workbench can be invoked by starting the following command:

```
esatan-tms
```

FLEXlm Licence Manager

In order to run ESATAN-TMS, a valid licence is required. Please run the process lmhostid from the directory "licences" under the ESATAN-TMS installation. Send the number returned by this function to our user support desk (support@esatan-tms.com) to receive the licence code required. The licence file must be called esatantms.lic and be contained within the licences directory under ESATAN-TMS.

3 Contact Information

If you have any questions regarding the new version or require further information please contact our customer support at:

ESATAN-TMS User Support



+44 (0)116 284 5748



support@esatan-tms.com



www.esatan-tms.com

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