

User Manual

For

**MODEVES Transformation Engine
(MTE)**

1. Download Instructions

1.1 MODEVES Transformation Engine

- Download MODEVES transformation engine from MODEVES website as: **“MTE-Source-code.zip”**
- Extract **MTE-Source-code.zip** file. You will find MTE Source code.
- Import MTE source code in Eclipse and Run it as Java Application as shown in **Figure 1** below

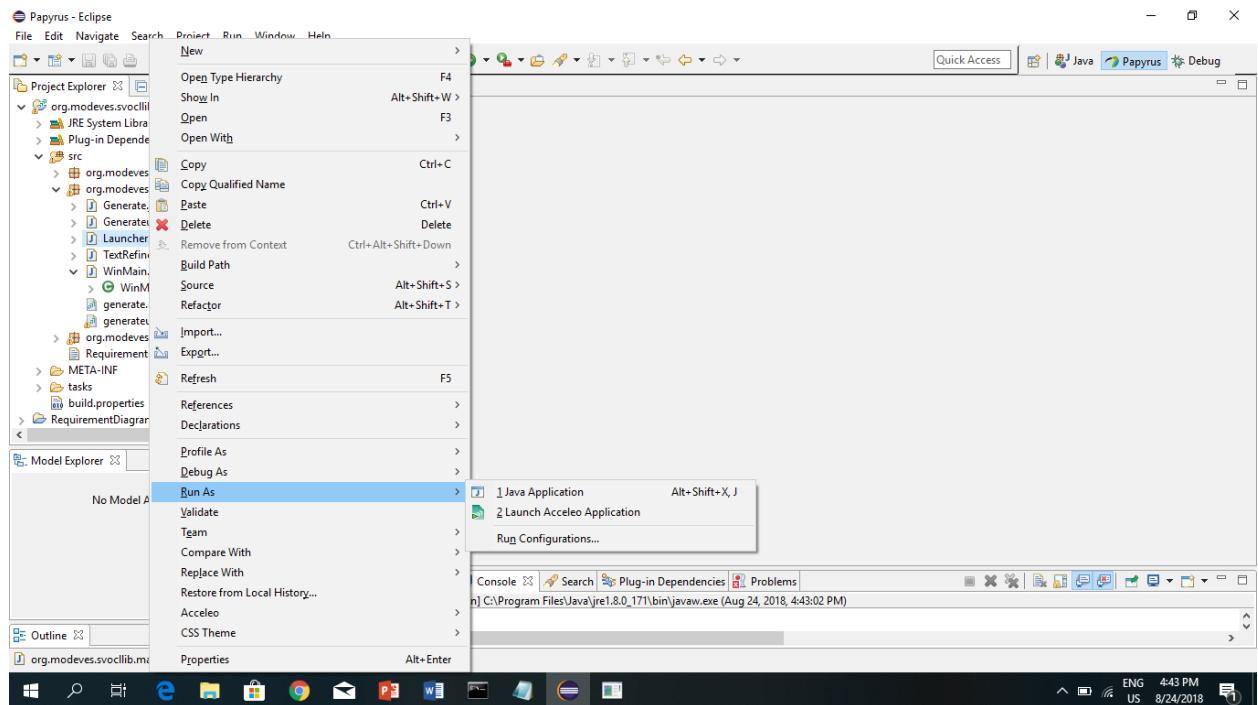


Figure 1: Running MTE Source Code in Eclipse

1.2 Sample Case Studies

- Eight sample case studies are available in zip files i.e. Traffic Lights Controller (TLC), Car Collison Avoidance System (CCAS), Arbiter, Elevator, Unmanned Aerial Vehicle (UAV), ATM, Train Gate and Bridge Crossing system.
- Download desired case study and extract it. Subsequently, import it in Eclipse for graphical view and to perform any changes if required. Alternatively, you can directly execute the available case studies through MTE.

2. Prerequisite for MODEVES Transformation Engine

- It is mandatory to install **Java Runtime Environment (JRE) version 8 or above**
- Latest Version of Eclipse should be installed on the system.
- We have tested MODEVES transformation engine on Windows 8 and Windows 10. However, we are confident that MODEVES transformation engine can also be executed on previous versions of Windows.

3. Execution of MODEVES Transformation Engine

- Run MTE source code in Eclipse as shown in **Figure 1**.
- The main interface of MODEVES Transformation Engine has been opened as shown in **Figure 2**.

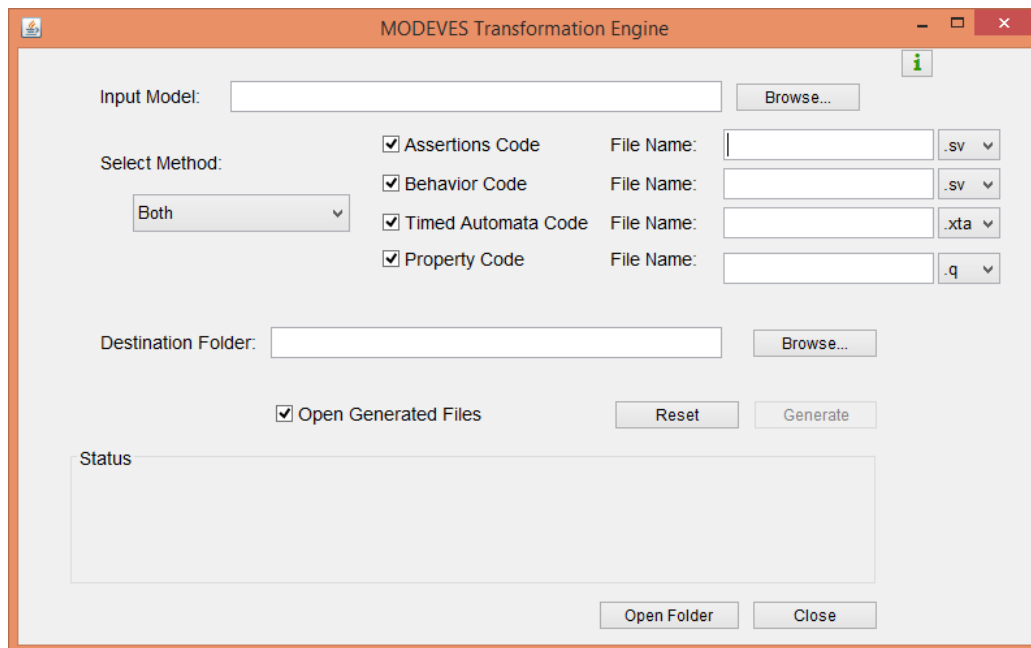


Figure 2: Main interface of MODEVES Transformation Engine

- **Input Model:** Browse button can be used to select the model that need to be transformed.
- **Required Check Boxes:** These check boxes can be used to select the code generation for desired target models.
- **Destination Folder:** Browse button can be used to select the destination folder in which generated target files are placed.

- **Open Generated File:** This checkbox can be selected if you want to open generated file / files.
- **Reset:** This button clears all current selections to define new configurations.
- **Generate:** This button will transform the selected model into required target files.
- **Status:** This displays the status of transformation i.e. File Generated Successfully or File Generated with Errors (in case of transformation errors)
- **Open folder:** This button can be used to open the folder where output source code files have been generated.
- **Close:** This button will close the MODEVES transformation engine.