Teamcenter Integration for SolidWorks®

Installation Guide for Dispatcher Client

Version 8.3

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Contents

Introduction

This guide describes the configuration procedures for the Teamcenter Integration for SolidWorks (SWiM) and Engineering Translation Service (ETS). Some sections are applicable to all Teamcenter installation environments, and others are specific to either Teamcenter 2007.1 or Teamcenter 8.x. Be sure to follow the procedures that apply to your Teamcenter version.

Prerequisites for the Teamcenter Integration for SolidWorks and Engineering Translation Service

The host you are using for the ETS server must have the installations of the Teamcenter Portal or Rich Client, ETS, SolidWorks, the JT translator for SolidWorks, and a client installation of the Teamcenter Integration for SolidWorks. The installation requirements of the Teamcenter Integration for SolidWorks (SWiM) must be met before doing the installation.

Configuring the Engineering Translation Service (ETS) for SolidWorks

If the Engineering Translation Service (ETS) has been installed at your site, it can be configured to generate JT and DXF files from SolidWorks models. The Teamcenter Integration for SolidWorks can be configured to automatically submit translation requests to ETS when SolidWorks models are saved to Teamcenter, and the Teamcenter Portal or Rich Client can be configured to allow users to submit on-demand translation requests. The following sections describe how to configure the ETS server to run the JT and DXF translation services, and how to configure clients to submit translation requests.

Configuring the ETS Server Environment

Perform these steps for Teamcenter 2007.1 and 8.x installations.

Once all the applications mentioned in Prerequisites are installed, the additional files you will need for configuring the ETS server can be found in the directory where the Teamcenter Integration for SolidWorks is installed.

The following descriptors will be used to refer to the installation directories:

- SWIM_DIR refers to the directory where the Teamcenter Integration for SolidWorks is installed.

Please replace these descriptors with appropriate paths in the instructions below.

1. If you have not already done so, install the Teamcenter Rich Client or Portal, ETS, SolidWorks, and the JT translator for SolidWorks such that they can all run on the ETS host.

2. In the etc subdirectory where the JT translator for SolidWorks is installed, edit the tessSW.config file to change the `autoNameSanitize` option to true:

   ```
   autoNameSanitize = true
   ```

3. Install the Teamcenter Integration for SolidWorks on the ETS host, following the instructions for a Typical Client Installation. You may wish to keep this installation directory separate from installations of the SWiM used for other purposes at your site. Separate installations make it possible for ETS to export models from Teamcenter using defaults that differ from those assigned to other users. For example, you may want to set the following preference in the swim.properties file used by ETS:

   ```
   filters.checkout.default = Required
   ```

   This will cause ETS to always apply the Required filter when exporting SolidWorks models from Teamcenter. The swim.properties file is located in the SWIM_DIR directory.

4. Starting from SWiM 8.3, logging is enabled by default. Default log file is created in the SWiM installation directory. Hence users should make the installation directory writable for ETS to create the log file or point the log file entry in the swim.properties to a writable location.

   Windows:
   ```
   log.file = c:\\temp\\etstxdlog.txt
   ```

   UNIX:
   ```
   log.file = /tmp/etstxdlog.txt
   ```

Teamcenter Unified 2007.1

Perform these steps only if using Teamcenter 2007.1.

Translation Services will be installed in the path which you specify in TEM, which is henceforth called ETS_HOME. In Teamcenter 2007.1, ETS_HOME contains both the ETS services and the Translation Solution Toolkit (TSTK). The ETS files are found under the ETS_HOME\TranslationService directory. The TSTK files are found directly under ETS_HOME.

Configuring Translation Solution Toolkit (TSTK)

TRANSLATOR_HOME is the path where Swtojt translator is installed.
Replace descriptors 'ETS_HOME', 'SWIM_DIR' and 'TRANSLATOR_HOME' used below, with their appropriate paths

1. Edit the swtojt.bat file in SWIM_DIR/swjt folder and add the path to the swtojt translator install directory as value to the TRANSDIR variable as below

   ```
   set TRANSDIR=TRANSLATOR_HOME
   ```

   Make sure that the translator exe file Swtojt.exe is present in the TRANSLATOR_HOME location.

2. In the ETS_HOME\Module\conf directory, edit the transmodule.properties file to change the `MaximumTasks` property setting as below,

   ```
   MaximumTasks=1
   ```

3. Edit ETS_HOME \Module\conf\translator.xml.

   Note: Use backward slashes as file separator and make sure that all folder names containing spaces are specified in DOS format.

   Add the following line in the beginning of translator.xml, below the MODULEBASE entity

```
<!ENTITY  DEBUG "false">
```

Add an ENTITY SWTOJT to the DOCTYPE Translators as shown in bold below

```
<!DOCTYPE Translators[
<!ENTITY  MODULEBASE "d:\Module\">
<!ENTITY  PROJTRANS "d:\ProjTrans">
<!ENTITY  PT_JFV "_2007.1.0">
<!ENTITY  UGSPKG "com.teamcenter.translator.ugs.">
<!ENTITY  WRAPPER "com.teamcenter.tstk.server.translator.ugs.">
<!ENTITY  EAIWRAPPER "&WRAPPER;EaiTranslator">
<!ENTITY SWTOJT "com.transcendata.swimsoa.ets.transwrapper.SWToJt">
]>
```

SolidWorksToJT Configuration

In the ETS_HOME\module\conf\translator.xml file:

1. Find <swtojt> service tag and set or change the following values as shown in bold:

```
 <SolidWorksToJt provider="UGS" service="swtojt" isactive="true"
wrapperclass="&SWTOJT;">
<TransExecutable dir="SWIM_DIR\swjt" name="swtojt.bat"/>
```

2. Define the following four options using the <Options> tag, in the same order as below. Note that only configfile option has a value set. No option other than these four should feature in the <Options> tag. Other tags, if already present, can be left intact.

```
<Options>
      <Option name="configfile" string="-z"
            value="TRANSLATOR_HOME\etc\tessSW.config"
            description="Path to the config file"/>
      <Option name="outputdir" string="-o"
            description="Full path to the output directory."/>
      <Option name="inputpath" string=""
            description="Full path to the input file."/>
      <Option name="inputdir" string=""
            description="Full path to the input directory."/>
</Options>
```

Note: Be sure to replace "TRANSLATOR_HOME" with the full path to your SolidWorksToJT translator installation

3. Comment out the Postprocess tag as below,

```
<!-- <Postprocess provider="UGS" service=" previewservice"/>  -->
```

4. In the ETS_HOME\Module\bin directory, edit the setmoduleenv.bat file to add SWIM_DIR\swjt\swtojt.jar to the classpath as

below.

```
set classpath=%classpath%;%HOME%\lib\activation.jar;%HOME%\lib\fileserver.jar
set classpath=%classpath%;%HOME%\lib\log4j-1.2.13.jar;%HOME%\lib\logwriter.jar
set classpath=%classpath%;SWIM_DIR\swjt\swtojt.jar
```

SolidWorksToDXF Configuration

Depending upon your patch level of Teamcenter 2007.1, the required translator executables and translator definition may be missing from your ETS environment.

1. If the swtodxf folder is not present in the following path:

   ```
   ETS_HOME\module\Translators
   ```

   Then you will have to copy it from a Teamcenter Engineering environment or install images location. If you don't have access to a Teamcenter Engineering environment, please contact GTAC for assistance in locating the necessary files.

2. Add the following content in ETS_HOME\module\conf\translator.xml if the 'swtodxf' tag is not present in translator.xml file.

```
<!-- Configuration of the Solid Works to DXF translator -->
<SolidWorksToDxf provider="UGS" service="swtodxf" maxlimit="1"
debug="&DEBUG;" isactive="true">
      <TransExecutable name="SWTRunner.exe"
      dir="&MODULEBASE;\Translators\swtodxf\"/>
      <Options>
             <Option name="inputpath" string="-i"
                  description="Full path to the input file"/>
             <Option name="outputpath" string="-o"
                  description="Full path to the output file."/>
      </Options>
      <FileExtensions>
             <InputExtensions nitem="1">
                  <InputExtension extension=".SLDDRW"/>
             </InputExtensions>
             <OutputExtensions nitem="1">
                  <OutputExtension extension=".dxf"/>
             </OutputExtensions>
      </FileExtensions>
</SolidWorksToDxf>
```

3. Modify TransExecutable name as below

   - `<TransExecutable name="SWTRunner.exe" dir="ETS_HOME\module\Translators\swtodxf\"/>`

   Where 'SWTRunner.exe' should be replaced by the actual executable file name in the specified directory.

Once you have reached this point, the scheduler and module services may be started.

They can be started from the console by running the batch files (first runscheduler.bat and then runmodule.bat) in the following directories, ETS_HOME/Module/bin and ETS_HOME/Scheduler/bin.

Note: The scheduler, module services and the ETS translation service should not be configured to run as windows services, due to known limitations with the classpath settings. Instead, start them from the command line using the .bat files specified.

ETS Service Configuration

1. Copy the below jar files from %TC_ROOT%\soa_client\java\libs to ETS_HOME\TranslationService\lib directory:

    - TcSoaAdministrationStrong_2007.1.0.jar
    - TcSoaAdministrationTypes_2007.1.0.jar
    - TcSoaCadStrong_2007.1.0.jar
    - TcSoaCadTypes_2007.1.0.jar
    - TcSoaCoreStrong_2007.1.0.jar
    - TcSoaCoreTypes_2007.1.0.jar
    - TcSoaQueryStrong_2007.1.0.jar
    - TcSoaQueryTypes_2007.1.0.jar
    - TcSoaStrongModel_2007.1.0.jar
    - TcSoaTranslationStrong_2007.1.0.jar

    If the %TC_ROOT%\soa_client directory does not exist, then unzip the contents of soa_client.zip file inside Teamcenter Unified 2007.1 installable with which the SWiM is configured, to the %TC_ROOT% directory. Then copy the above specified TcSoa*.jar files to the ETS_HOME\TranslationService\lib directory from this TC_ROOT%\soa_client\java\libs directory.

2. Modify ETS_HOME\TranslationService\conf\Service.properties to add TSSWService to the import statement as below:

    ```
    import TSBasicService,....,TSQSearchServices,TSSWService
    ```

3. Modify ETS_HOME\AdminClient\ui\swing\AdminClientUI.xml to add the following lines if not already present.

    ```
    <Service string="swtodxf" ext=".dxf">
            <FileFilter id="SolidWorks" string="slddrw"
            desc="SolidWorks Drawings(*.slddrw)"/>
    </Service>
    ```

4. In ETS_HOME\TranslationService\bin\setTranslationServiceEnv.bat file, set the HOME variable to ETS_HOME\TranslationService, under …….do set HOME=%%~sx\..

   Note: *Make sure that folder names are specified in DOS format.*

   ```
   set HOME=ETS_HOME\TranslationService
   ```

5. Set the following classpaths as below, before the call to tscpappend.bat file is made.

   ```
   set classpath=
   set classpath=%classpath%;SWIM_DIR\ETSSW.jar
   set classpath=%classpath%;SWIM_DIR\swim.jar
   set classpath=%classpath%;SWIM_DIR\swim_plugin_1.2.1.jar
   ```

   The name of Swim_plugin_1.2.1.jar may be different. The correct name as it appears for this jar in the swim directory should be specified in the classpath setting.

6. In ETS_HOME\TranslationService\bin\tscpappend.bat, set the classpath as below

   ```
   set classpath=%classpath%;ETS_HOME\TranslationService\lib\%~nx1
   ```

Open a Teamcenter cmd shell and set the FMS_HOME in it or set the FMS_HOME inside the ETS_HOME\TranslationService\bin\runTranslationService.bat file.

Execute the runTranslationService.bat file in the Teamcenter cmd shell. This will start the ETS translation service.

A translation request can be generated either on demand, by selecting a dataset in Teamcenter and hitting the Translation -> Translate menu, or by checking the Create JT Files (ETS) option in SWiM while saving the dataset to Teamcenter. The ‘Create JT Files (ETS) option in SWiM’ will be available after the steps mentioned in the ‘Configuring SWiM to send ETS Client requests’ section is done.

Teamcenter 8.x

Perform these steps only if using Teamcenter 8.x.

When Dispatcher is installed through TEM, most of the data required to configure the service are given. This includes the paths to the staging directory as well as to the translator executables. Dispatcher will be installed in the path which you specify in TEM, which is henceforth called DC_HOME.

Configuring Dispatcher

TRANSLATOR_HOME is the path where Swtojt translator is installed.
Replace descriptors 'DC_HOME', 'SWIM_DIR' and 'TRANSLATOR_HOME' used below, with their appropriate paths

Note: Use backward slashes as file separator and make sure that all folder names containing spaces are specified in DOS format.

1. Edit the swtojt.bat file in SWIM_DIR/swjt folder and add the path to the swtojt translator install directory as value to the TRANSDIR variable as below

   ```
   set TRANSDIR=TRANSLATOR_HOME
   ```

   *Note: Make sure that the translator exe file, **Swtojt.exe** is present in the TRANSLATOR_HOME location.*

2. In the DC_HOME\Module\conf directory, edit the transmodule.properties file to change the `MaximumTasks` property setting as below,

   ```
   MaximumTasks=1
   ```

3. Edit DC_HOME \Module\conf\translator.xml.

   Add the following line in the beginning of translator.xml, below the MODULEBASE entity

   ```
   <!ENTITY  DEBUG "false">
   ```

   Add an ENTITY SWTOJT to the DOCTYPE Translators as shown in bold below

   ```
   <!DOCTYPE Translators[
   <!ENTITY  MODULEBASE " d:\Module\">
   <!ENTITY  JAVABIN "G:\TEAMCE~1\install\install\jre\bin">
   <!ENTITY  IDEAS "C:/UGS/IDEAS12">
   <!ENTITY  ORBIX "C:/ORBIX/Iona/asp/6.1/lib/">
   <!ENTITY  PROJTRANS "d:/ProjTrans">
   <!ENTITY  PT_JFV "_8000.0.0">
   ```

```
<!ENTITY  UGSPKG "com.teamcenter.translator.ugs.">
<!ENTITY  WRAPPER "com.teamcenter.tstk.server.translator.ugs.">
<!ENTITY  EAIWRAPPER "&WRAPPER;EaiTranslator">
<!ENTITY SWTOJT "com.transcendata.swimsoa.ets.transwrapper.SWToJt">
]>
```

SolidWorksToJT Configuration

In the DC_HOME\module\conf\translator.xml file:

1. Find <swtojt> service tag and set or change the following values as shown in bold:

```
 <SolidWorksToJt provider="SIEMENS" service="swtojt" isactive="true"
wrapperclass="&SWTOJT;">
<TransExecutable dir="SWIM_DIR\swjt" name="swtojt.bat"/>
```

2. Define the following four options using the <Options> tag, in the same order as below. Note that only configfile option has a value set. No option other than these four should feature in the <Options> tag. Other tags, if already present, can be left intact.

```
<Options>
      <Option name="configfile" string="-z"
            value="TRANSLATOR_HOME\etc\tessSW.config"
            description="Path to the config file"/>
      <Option name="outputdir" string="-o"
            description="Full path to the output directory."/>
      <Option name="inputpath" string=""
            description="Full path to the input file."/>
      <Option name="inputdir" string=""
            description="Full path to the input directory."/>
</Options>
```

Note: Be sure to replace "TRANSLATOR_HOME" with the full path to your SolidWorksToJT translator installation

3. Comment out the Postprocess tag as below,

```
<!-- <Postprocess provider="SIEMENS" service="previewservice"/> -->
```

4. In the DC_HOME\Module\bin directory, edit the setmoduleenv.bat file to add SWIM_DIR\swjt\swtojt.jar to the classpath as below.

```
set classpath=%classpath%;%HOME%\lib\activation.jar;%HOME%\lib\fileserver.jar
set classpath=%classpath%;%HOME%\lib\log4j-1.2.13.jar;%HOME%\lib\logwriter.jar
set classpath=%classpath%;SWIM_DIR\swjt\swtojt.jar
```

SolidWorksToDXF Configuration

Depending upon your patch level of Teamcenter, the required translator executables and translator definition may be missing from your ETS environment.

1. If the swtodxf folder is not present in the following path:

   ```
   DC_HOME\module\Translators
   ```

   Then you will have to copy it from a Teamcenter Engineering environment or install images location. If you don't have access to a Teamcenter Engineering environment, please contact GTAC for assistance in locating the necessary files.

2. Add the following content in DC_HOME\module\conf\translator.xml if the 'swtodxf' tag is not present in translator.xml file.

```
<!-- Configuration of the Solid Works to DXF translator -->
<SolidWorksToDxf provider="SIEMENS" service="swtodxf" maxlimit="1"
debug="&DEBUG;" isactive="true">
      <TransExecutable name="SWTRunner.exe"
      dir="&MODULEBASE;\Translators\swtodxf\"/>
      <Options>
             <Option name="inputpath" string="-i"
                  description="Full path to the input file"/>
             <Option name="outputpath" string="-o"
                  description="Full path to the output file."/>
      </Options>
      <FileExtensions>
             <InputExtensions nitem="1">
                  <InputExtension extension=".SLDDRW"/>
             </InputExtensions>
             <OutputExtensions nitem="1">
                  <OutputExtension extension=".dxf"/>
             </OutputExtensions>
      </FileExtensions>
</SolidWorksToDxf>
```

3. Modify TransExecutable name as below

```
<TransExecutable name="SWTRunner.exe"
dir="DC_HOME\module\Translators\swtodxf\"/>
```

   *Note: '**SWTRunner.exe**' should be replaced by the actual executable file name in the specified directory.*

Once you have reached this point, the scheduler and module services may be started.

They can be started from the console by running the batch files (first runscheduler.bat and then runmodule.bat) in the following directories, DC_HOME/Scheduler/bin and DC_HOME/Module/bin.

Note: The scheduler, module services and the ETS translation service should not be configured to run as windows services, due to known limitations with the classpath settings. Instead, start them from the command line using the .bat files specified.

ETS Service Configuration

1. Copy the below jar files from %TC_ROOT%\soa_client\java\libs directory to DC_HOME\DispatcherClient\lib if it is not already present in the DC_HOME\DispatcherClient\lib directory:

    - TcSoaStrongModel_8000.0.0.jar
    - TcSoaDocumentManagementTypes_8000.0.0.jar
    - TcSoaDocumentManagementStrong_8000.0.0.jar
    - TcSoaCoreTypes_8000.0.0.jar
    - TcSoaCoreStrong_8000.0.0.jar
    - TcSoaCommon_8000.0.0.jar
    - TcSoaClient_8000.0.0.jar
    - TcSoaCadTypes_8000.0.0.jar
    - TcSoaCadStrong_8000.0.0.jar
    - TcSoaAdministrationTypes_8000.0.0.jar
    - TcSoaAdministrationStrong_8000.0.0.jar
    - TcSoaTranslationStrong_8000.0.0.jar
    - TcSoaTranslationTypes_8000.0.0.jar
    - TcSoaQueryStrong_8000.0.0.jar
    - TcSoaQueryTypes_8000.0.0.jar

    Note: For Teamcenter **8.1**, the jar file names end with *_8000.1.0.jar. For Teamcenter 8.3, the jar file names end with *_8000.3.0.jar.

    If the %TC_ROOT%\soa_client directory does not exist, then unzip the contents of soa_client.zip file inside Teamcenter 8.x installable with which the SWiM is configured, to the %TC_ROOT% directory. Then copy the above specified TcSoa*.jar files to the DC_HOME\DispatcherClient\lib directory from this %TC_ROOT%\soa_client\java\libs directory.

2. Modify DC_HOME\DispatcherClient\conf\Service.properties to add TSSWService to the import statement as below:

    ```
    import TSBasicService,....,TSQSearchServices,TSSWService
    ```

3. Modify DC_HOME\AdminClient\ui\swing\AdminClientUI.xml to add the following lines if not already present.

    ```
    <Service string="swtodxf" ext=".dxf">
            <FileFilter id="SolidWorks" string="slddrw"
            desc="SolidWorks Drawings(*.slddrw)"/>
    </Service>
    ```

4. In DC_HOME\DispatcherClient\bin\setDispatcherClientEnv.bat file, set the HOME variable to DC_HOME\DispatcherClient, under …….do set HOME=%%~sx\..

   Note: *Make sure that folder names are specified in DOS format.*

   ```
   set HOME=DC_HOME\DispatcherClient
   ```

   Set the following classpaths as below, before the call to tscpappend.bat file is made.

   ```
   set classpath=
   set classpath=%classpath%;SWIM_DIR\ETSSW.jar
   set classpath=%classpath%;SWIM_DIR\swim.jar
   set classpath=%classpath%;SWIM_DIR\swim_plugin_1.2.1.jar
   ```

   The name of Swim_plugin_1.2.1.jar may be different. The correct name as it appears for this jar in the swim directory should be specified in the classpath setting.

5. In DC_HOME\DispatcherClient\bin\tscpappend.bat, set the classpath as below

   ```
   set classpath=%classpath%;DC_HOME\DispatcherClient\lib\%~nx1
   ```

Open a Teamcenter cmd shell and set the FMS_HOME in it or set the FMS_HOME inside the DC_HOME\DispatcherClient\bin\runDispatcherClient.bat file.

Execute the runDispatcherClient.bat file in the Teamcenter cmd shell. This will start the ETS translation service.

A translation request can be generated either on demand, by selecting a dataset in Teamcenter and hitting the Translation -> Translate menu, or by checking the Create\Save JT Files (ETS) option in SWiM while saving the dataset to Teamcenter. The ‘Create\Save JT Files (ETS) option in SWiM’ will be available after the steps mentioned in the ‘Configuring SWiM to send ETS Client requests’ section is done.

Configuring SWiM to send ETS Client requests

These steps apply to Teamcenter 2007.1 and 8.x.

SWiM can submit translation requests when saving SolidWorks models to Teamcenter if its auxiliary file map is configured to do so. You can find detailed information about the auxiliary file map and its ets_request tag in the "General Auxiliary Files" section of the Teamcenter Integration for SolidWorks User Guide. However, in many cases these details may be unnecessary, and you may find that the examples below are sufficient for most purposes.
To submit a request for translating parts to JT files, SWiM can be configured by adding the following lines to the swim.xml file found in the SWiM's installation directory.

These lines should be inserted into the section of the swim.xml file that is bounded by
`<auxiliary_file_map> … </auxiliary_file_map>` tags:

For Teamcenter Unified 2007.1:

```
<auxiliary_file cad_type="sldprt:sldasm">
      <cadtopdm_control label="Save JT Files (ETS)"/>
      <ets_request translator="swtojt" request_per_model="false"
                  provider="UGS" priority="2"/>
</auxiliary_file>
```

For Teamcenter 8.x

```
<auxiliary_file cad_type="sldprt:sldasm">
      <cadtopdm_control label="Save JT Files (ETS)"/>
      <ets_request translator="swtojt" request_per_model="false"
                  provider="SIEMENS" priority="2"/>
</auxiliary_file>
```

This entry in the auxiliary file map also displays a checkbox labeled Save JT Files (ETS) in the SWiM Save dialog, allowing users to choose whether the translation request will be submitted. Note that an auxiliary file map may also contain a jt_file entry to save JT files locally, instead of submitting a translation request to ETS. If a jt_file entry is included in the auxiliary file map, a checkbox labeled Save JT Files also appears in the Save dialog to control local translation.

The configuration for translating drawings to DXF files is similar. Adding these below lines to the auxiliary file map causes a translation request to be submitted each time a drawing is saved to Teamcenter, and displays a Save DXF Files (ETS) checkbox in the Save dialog:

For Teamcenter Unified 2007.1:

```
<auxiliary_file cad_type="slddrw">
      <cadtopdm_control label="Save DXF Files (ETS)"/>
      <ets_request translator="swtodxf" request_per_model="false"
                  provider="UGS" priority="2"/>
</auxiliary_file>
```

For Teamcenter 8.x

```
<auxiliary_file cad_type="slddrw">
      <cadtopdm_control label="Save DXF Files (ETS)"/>
      <ets_request translator="swtodxf" request_per_model="false"
                  provider="SIEMENS" priority="2"/>
</auxiliary_file>
```

Troubleshooting

If you have trouble starting/running an ETS translation:

1. Make sure supported versions of SolidWorks and Teamcenter are being used. See the section on "Prerequisites for the Teamcenter Integration for SolidWorks" for more information.
2. Make sure all the specified configuration steps are done.
3. Verify that the SolidWorks part or drawing can be translated successfully using the standalone translator framework. This is done by starting the Scheduler and the Module servers, then submitting a task using the Admin Client.
4. Check if a translation request to generate a JT or DXF file exists in Teamcenter.
5. For doing multiple translations for configuration, close the SolidWorks session if it is running before the translation is started.
6. Check if the JT translator for SolidWorks is working properly, by explicitly starting a part or assembly translation using the JT translator (using the UGS or JT menu in SolidWorks session, obtained after JT translator installation) in SolidWorks.
7. Check if the DXF translator is working properly, by explicitly running the translator standalone from the command prompt as below. For example:

   ```
   SWTRunner.exe -i e:\ebox\ebox.slddrw -o e:\ebox\ebox.dxf
   ```

8. If experiencing crashes or hangs of the SolidWorks session make sure that the ETS does not have an extra sldworks.exe on the system (use the task manager). Only one sldworks.exe should be running on the system and it should be run by the ETS.
9. Running standalone SolidWorks sessions on the ETS is not supported. Doing so can cause SolidWorks to crash or hang which may result in incomplete translations or lost data in the standalone session.