OSATE Hands-on Exercises: Installation and Setup

OSATE installation instructions (Windows XP, sp2)

1. From the Model-based Engineering with SAE AADL course CD *or* the download page of www.aadl.info, get the file: **osate-topcased-1.2.2-03102006-sdk-eclipse-3.1.2-emf-2.1.2-gef-3.1.1.win32.zip**.
2. **Extract** the content of the zip file to <PREFIX>/, where <PREFIX> is usually c:/Program Files. An Eclipse directory tree will be created starting with the folder **eclipse**.
3. For convenience, create a short cut to **<PREFIX>/eclipse/eclipse.exe** and place it on the desktop.
4. Set up an AADL model workspace with the example AADL models (see below)

Note: If you already have installed OSATE previously, you may want to install this version in a separate folder, e.g., Osate1.2.

Note: Eclipse requires Java2 JRE 1.4 or higher. If OSATE /Eclipse fails to start up (steps 4, 6 below) you may have an older version of Java installed. In that case please install **jdk-1_5_0_06-windows-i586-p.exe** from the folder **Distributions/Java/SDK**. If Eclipse continues to fail on startup, make sure the Windows Environment Variables are not configured to point to the old version of Java. You find the Environment Variables under **Advanced** of the **Properties** dialog box for **My Computer**. Check the variable named **PATH**.

Setup of AADL Model Workspace and Import of AADL Model Project

1. First create a folder in which you maintain workspaces. Create it separate from the installation folder above – this allows you to reinstall OSATE without erasing the workspace. For this exercise, call the directory **EclipseProjects**.
2. In the **EclipseProjects** folder create a new workspace folder for AADL model analysis. You may call it **coursemodels**.
3. From the AADL course CD handed out in class unzip the zip file **ExampleModels-02262006.zip** into this (**<PREFIX>/EclipseProjects/coursemodels**) folder, where <Prefix> is the drive and directory path. The unzipping will create a project folder named **ExampleModels** under **coursemodels**.
4. Launch eclipse by double-clicking on the Eclipse icon. The OSATE AADL splash icon will appear.
5. The initial running of Eclipse will prompt you to specify a workspace. For this exercise, specify: <prefix>/**EclipseProjects/coursemodels**.
6. After the workspace is entered, Eclipse will start up and display a Welcome screen. Close this welcome screen.
7. The OSATE display is divided into four areas as shown in Figure 1: the Navigator window on the top left, an Outline window at the bottom left, an Editor window

area at the top right, and a viewer area with a Task view on the bottom right. Initially, these should all be empty.

8. Import the project folder into OSATE by invoking the command **File->Import**, select **Existing project into Workspace**, click **next**, select the project folder **coursemodels** and click **finish**. The AADL model project is now visible in the **Navigator** window. You then want to activate the AADL Perspective via the command **Window->Open Perspective->Other** then **AADL**.
9. This will enable the AADL Nature (which activates the AADL builder) and viewers. These viewers can also be opened manually through **Window->Show View->Problems**, **Window->Show View->Properties**, and **Window->Show View->Other…** and then **Other->AADL Property Values**.

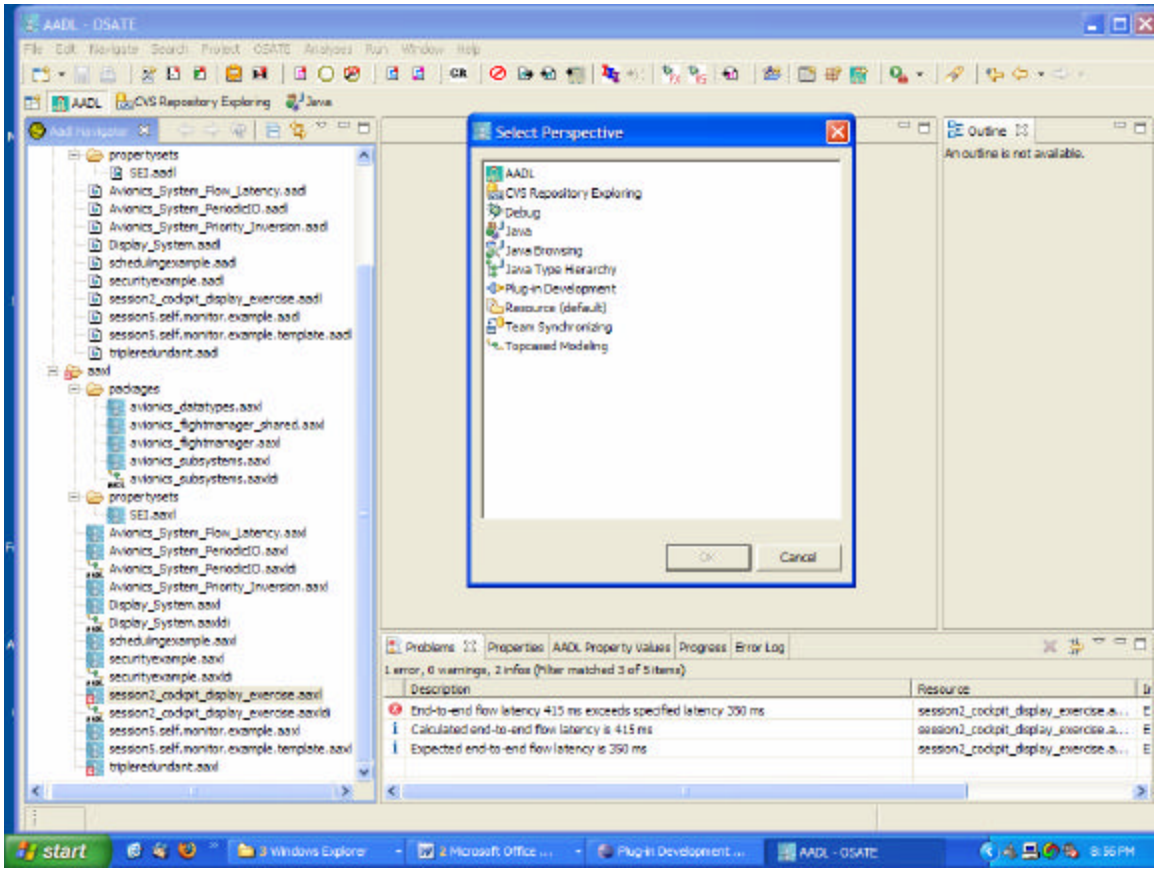

Figure 1 OSATE Window Layout

Note: If you already have a workspace set up with the **ExampleModels** project and need to update the files to those from the zip file, you need to follow these two steps. First, you can unzip the files over the existing files. Second, you go into OSATE with the project in the workspace, select the project **ExampleModels**, and invoke the command **File->Refresh**. This will inform OSATE that the files have been changed outside OSATE.