

How to Develop eSWT Apps on WSDD 5.7.1

Target Audience:

Low-end Mobile Device application developers

Target Environment:

Mobile Device capable of running J2ME – CLDC Profile
Low memory limits middle-ware size
SMF based application delivery
Stand-alone application model

Information about eSWT and SWT Mobile Extensions – www.eclipse.org/ercp

Installation:

Download WSDD 5.7.1 – www.ibm.com/downloads
Download eSWT for WSDD – www.eclipse.org/ercp

Install WSDD
Unzip eSWT-WSDD-M3.zip

Launch WSDD
Click Window=>Open Perspective=>Install/Update
Expand Sites to Visit
Expand IBM Micro Environment Toolkit for WebSphere Studio
Expand Extension Services For WebSphere EveryPlace
Select SMF Bundle Development Kit 5.7.1
Click the Install button on right panel

Preparing for Development:

Click Window=>Open Perspective=>SMF perspective
Start Bundle Server
Click Run=>Run
Select SMF Bundle Server on left
Click Run button on right

Start SMF Runtime
Click Run=>Run
Select SMF Runtime on left
Click Run button on right

Import eSWT project
Click File=>Import
Choose “Existing Project into Workspace”
For Project Contents browse to unzipped org.eclipse.ercp.swt.win32 project

Submit bundle to bundle server
Right click on org.eclipse.ercp.swt.win32 project
Select SMF=>Submit Bundle...
Choose Export Target “Admin@localhost”
Click Finish

Install eSWT for Win32 bundle to Runtime
Switch to SMF Bundle Servers tab
Expand Admin@localhost and Bundles
Right click on eSWT for Win32
Select Install

“eSWT for Win32” should appear in SMF Runtime window

Sample Project:

- Import eswt.sample project
- Click File=>Import
- Choose “Existing Project into Workspace”
- For Project Contents browse to unzipped eswt.sample project

Add eSWT library

- Right click on eswt.sample project
- Select Properties and Java Build Path
- Select Libraries tab and click Add External Jars
- Find eSWT-converged.jar in the org.eclipse.ercp.swt.win32 project within your WSDD workspace and click Add

Note: If you add more eSWT code to this project, you may need to import additional packages

- Edit MANIFEST.MF
- Add import packages for the eSWT packages you need
- Close manifest

Submit bundle to Bundler Server

- Right click on eswt.sample project
- Select SMF=>Submit Bundle...
- Choose Export Target “Admin@localhost”
- Click Finish

Install bundle in SMF Runtime

- Switch to SMF Bundle Servers tab
- Expand Admin@localhost and Bundles
- Right click on eSWT Sample
- Select Install
- “eSWT Sample” should appear in SMF Runtime window

Bundle should start and display window

Note: If you wish to update the bundle in the SMF runtime, it is best to uninstall the existing bundle and install the updated one.

Sample Description:

The sample demonstrates an application using eSWT and Mobile Extensions for its GUI. The application runs in the JVM running SMF on its own execution thread. In this application model, only one application is allowed per JVM.