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## Overview

This code snippet demonstrates how to use eSWT's FileDialog class in Java ME. A FileDialog can be opened and when a file is selected, its size is shown on the screen. The following section contains the complete code for compiling and running the example application.

## Source code

```
import javax.microedition.midlet.*;
import org.eclipse.ercp.swt.mobile.Command;
import org.eclipse.swt.SWT;
import org.eclipse.swt.events.*;
import org.eclipse.swt.widgets.*;
import org.eclipse.swt.layout.FillLayout;
import javax.microedition.io.file.FileConnection;
import javax.microedition.io.Connector;
import java.io.IOException;

public class FileDialogMIDlet extends MIDlet implements Runnable, SelectionListener {
    private Thread UIThread;
    private Display display;
    private Shell formShell;
    private boolean exiting = false;
    private Command fileCommand;
    private Command exitCommand;
    private Text text;
    private String textString = "FileDialogMIDlet";

    public void startApp() {
        // Create the eSWT UI thread.
        if(UIThread == null) {
            UIThread = new Thread(this);
            UIThread.start();
        }
    }
}
```

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```
public void pauseApp() {
}

public void destroyApp(boolean unconditional) {
    // Make the event loop exit in the eSWT UI thread.
    exitEventLoop();
    // Wait for the eSWT UI thread to die.
    try {
        UIThread.join();
    } catch(InterruptedException e) {
    }
}

void exitEventLoop() {
    exiting = true;
    Display.getDefault().wake();
}

// The eSWT UI Thread.
public void run() {
    display = new Display();
    FillLayout fillLayout = new FillLayout();
    formShell = new Shell(display);
    formShell.setLayout(fillLayout);
    formShell.open();
    Composite form = new Composite(formShell, SWT.NONE);
    form.setLayout(fillLayout);
    text = new Text(form, SWT.READ_ONLY | SWT.WRAP);
    text.setText(textString);
    fileCommand = new Command(formShell, Command.SELECT, 0);
    fileCommand.setText("Open FileDialog");
    fileCommand.addSelectionListener(this);
    exitCommand = new Command(formShell, Command.EXIT, 0);
    exitCommand.setText("Exit");
    exitCommand.addSelectionListener(this);
    formShell.redraw();

    // Execute the eSWT event loop.
    while(!exiting) {
        if(!display.readAndDispatch()) {
            display.sleep();
        }
    }

    // Clean up and destroy the MIDlet.
    display.dispose();
    notifyDestroyed();
}

public void widgetDefaultSelected(SelectionEvent e) {
}

public void widgetSelected(SelectionEvent e) {
    if (e.widget.equals(fileCommand)) {
        openFileDialog();
    }
    if (e.widget.equals(exitCommand)) {
        // Exit command selected, exit the event loop.
        exitEventLoop();
    }
}
}
```

```

public void openFileDialog() {
    FileDialog fDialog = new FileDialog(formShell);
    fDialog.open();
    String filterPath = fDialog.getFilterPath();
    String temp = filterPath.replace('\\', '/'); // '\?' characters are replaced with '/'
    filterPath = temp;
    String fileName = fDialog.getFileName();
    String path = "file:/" + filterPath + fileName;
    // path is for example: file:///C:/Data/Images/image.png, this can be used as file
    // URL for FileConnection
    if (!path.equals("file:///")) {
        // Path equals "file://", if file dialog is canceled.
        try {
            FileConnection fc = (FileConnection) Connector.open(path, Connector.READ);
            if (!fc.isDirectory()) {
                textString = "File size: " + fc.fileSize() + " bytes";
                text.setText(textString);
            }
        } catch (IOException ioe) {
            // Thrown if an I/O error occurs or if the method is invoked on a directory.
            // Note: It is not possible to select a directory in FileDialog.
            textString = "IOException: " + ioe.getMessage();
            text.setText(textString);
        }
        catch (SecurityException se) {
            // Thrown if the security of the application does not have read access for
            // the file.
            textString = "SecurityException: " + se.getMessage();
            text.setText(textString);
        }
        formShell.redraw();
    }
}
}

```

## Postconditions

When a `FileDialog` is opened and a file is selected in it, the file size is shown on the screen.

## See also

- [eSWT](#)