**PRINT A FILE oR STRING TO A PRINTER**

At a high level, the steps involved in using the Java print service API are straightforward:

1. Locate print services (printers), optionally limiting the list of those returned to the ones that support the capabilities your application needs. Print services are represented as instances of PrintService implementations.
2. Create a print job by calling the createPrintJob() method defined in thePrintService interface. The print job is represented by an instance of DocPrintJob.
3. Create an implementation of the Doc interface that describes the data you want to print. You also have the option of creating an instance of PrintRequestAttributeSetthat describes the printing options you want.
4. Initiate printing by calling the print() method defined in the DocPrintJobinterface, specifying the Doc you created in the previous step and thePrintRequestAttributeSet or a null value.

**PRINT TEXT SAMPLE**

**package** org.amerp.utilities;

**import** java.io.ByteArrayInputStream;

**import** java.io.IOException;

**import** java.io.InputStream;

**import** javax.print.Doc;

**import** javax.print.DocFlavor;

**import** javax.print.DocPrintJob;

**import** javax.print.PrintException;

**import** javax.print.PrintService;

**import** javax.print.PrintServiceLookup;

**import** javax.print.SimpleDoc;

**import** javax.print.attribute.HashPrintRequestAttributeSet;

**import** javax.print.attribute.PrintRequestAttributeSet;

**import** javax.print.attribute.standard.Copies;

**import** javax.print.event.PrintJobAdapter;

**import** javax.print.event.PrintJobEvent;

**public** **class** PrintTextSample {

**public** **static** **void** main(String[] args) **throws** PrintException, IOException {

String defaultPrinter =

PrintServiceLookup.*lookupDefaultPrintService*().getName();

System.***out***.println("Default printer: " + defaultPrinter);

PrintService service = PrintServiceLookup.*lookupDefaultPrintService*();

// prints the famous hello world! plus a form feed

InputStream is = **new** ByteArrayInputStream("hello world!\f".getBytes("UTF8"));

PrintRequestAttributeSet pras = **new** HashPrintRequestAttributeSet();

pras.add(**new** Copies(1));

DocFlavor flavor = DocFlavor.INPUT\_STREAM.***AUTOSENSE***;

Doc doc = **new** SimpleDoc(is, flavor, **null**);

DocPrintJob job = service.createPrintJob();

PrintJobWatcher pjw = **new** PrintJobWatcher(job);

job.print(doc, pras);

pjw.waitForDone();

is.close();

}

}

**class** PrintJobWatcher {

**boolean** done = **false**;

PrintJobWatcher(DocPrintJob job) {

job.addPrintJobListener(**new** PrintJobAdapter() {

**public** **void** printJobCanceled(PrintJobEvent pje) {

allDone();

}

**public** **void** printJobCompleted(PrintJobEvent pje) {

allDone();

}

**public** **void** printJobFailed(PrintJobEvent pje) {

allDone();

}

**public** **void** printJobNoMoreEvents(PrintJobEvent pje) {

allDone();

}

**void** allDone() {

**synchronized** (PrintJobWatcher.**this**) {

done = **true**;

System.***out***.println("Printing done ...");

PrintJobWatcher.**this**.notify();

}

}

});

}

**public** **synchronized** **void** waitForDone() {

**try** {

**while** (!done) {

wait();

}

} **catch** (InterruptedException e) {

}

}

}

**PRINT TEXT FILE SAMPLE**

**package** org.amerp.utilities;

**import** java.io.ByteArrayInputStream;

**import** java.io.IOException;

**import** java.io.InputStream;

**import** java.io.File;

**import** java.io.FileInputStream;

**import** javax.print.Doc;

**import** javax.print.DocFlavor;

**import** javax.print.DocPrintJob;

**import** javax.print.PrintException;

**import** javax.print.PrintService;

**import** javax.print.PrintServiceLookup;

**import** javax.print.SimpleDoc;

**import** javax.print.attribute.HashPrintRequestAttributeSet;

**import** javax.print.attribute.PrintRequestAttributeSet;

**import** javax.print.attribute.standard.Copies;

**import** javax.print.event.PrintJobAdapter;

**import** javax.print.event.PrintJobEvent;

**public** **class** PrintTextFileSample {

**public** **static** **void** main(String[] args) **throws** PrintException, IOException {

String defaultPrinter =

PrintServiceLookup.*lookupDefaultPrintService*().getName();

System.***out***.println("Default printer: " + defaultPrinter);

PrintService service = PrintServiceLookup.*lookupDefaultPrintService*();

FileInputStream in = **new** FileInputStream(**new** File("c:/temp/foo.txt"));

PrintRequestAttributeSet pras = **new** HashPrintRequestAttributeSet();

pras.add(**new** Copies(1));

DocFlavor flavor = DocFlavor.INPUT\_STREAM.***AUTOSENSE***;

Doc doc = **new** SimpleDoc(in, flavor, **null**);

DocPrintJob job = service.createPrintJob();

PrintJobWatcher pjw = **new** PrintJobWatcher(job);

job.print(doc, pras);

pjw.waitForDone();

in.close();

// send FF to eject the page

InputStream ff = **new** ByteArrayInputStream("\f".getBytes());

Doc docff = **new** SimpleDoc(ff, flavor, **null**);

DocPrintJob jobff = service.createPrintJob();

pjw = **new** PrintJobWatcher(jobff);

jobff.print(docff, **null**);

pjw.waitForDone();

}

}

**class** PrintJobWatcher {

**boolean** done = **false**;

PrintJobWatcher(DocPrintJob job) {

job.addPrintJobListener(**new** PrintJobAdapter() {

**public** **void** printJobCanceled(PrintJobEvent pje) {

allDone();

}

**public** **void** printJobCompleted(PrintJobEvent pje) {

allDone();

}

**public** **void** printJobFailed(PrintJobEvent pje) {

allDone();

}

**public** **void** printJobNoMoreEvents(PrintJobEvent pje) {

allDone();

}

**void** allDone() {

**synchronized** (PrintJobWatcher.**this**) {

done = **true**;

System.***out***.println("Printing done ...");

PrintJobWatcher.**this**.notify();

}

}

});

}

**public** **synchronized** **void** waitForDone() {

**try** {

**while** (!done) {

wait();

}

} **catch** (InterruptedException e) {

}

}

}