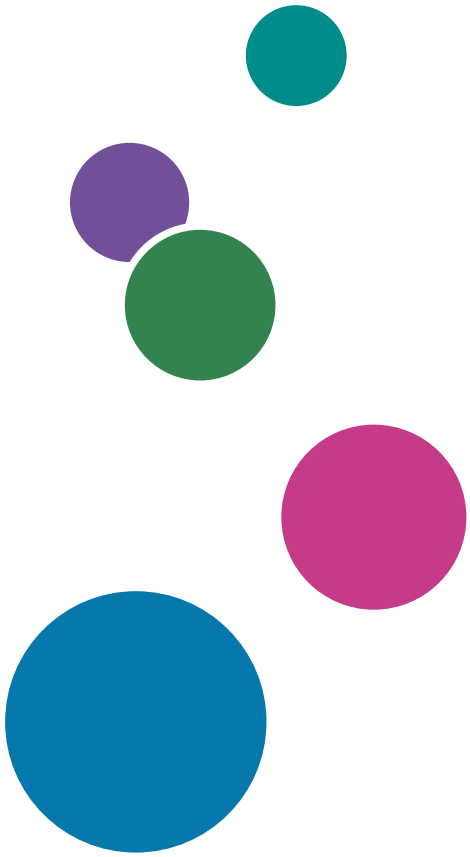
RICOH

Web Enablement Solutions Suite

Tiff2PDF User's Guide

Version 1.3

For information not in this manual, refer to the Help System in your product.



Read this manual carefully and keep it handy for future reference.

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Description

TIFF2PDF converts both single and multi- page TIFF files in Adobe Acrobat Portable Document Format (PDF) files.

Specifications

Supported Platforms

Microsoft® Windows® Server 2003 or later

AIX 5.3 or later

Red Hat Enterprise Linux® (RHEL) V5 or later

SUSE Linux® Enterprise Server (SLES) 10 or later

Oracle® Solaris 8 or later (SPARC only)

Transform server requirements:

JAVA V1.6 or later

Client Software Requirements

Adobe® Acrobat Reader 5.0 or later

Adobe Acrobat Reader 7.0.5 or later

Language Support

Single Byte Character Sets

Double Byte Character Sets: Simplified and Traditional

Chinese, Japanese and Korean

2. Running Java version of Tiff2PDF

- **Java command line**
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- **Running Java Tiff2PDF Server**
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Jar file `tiff2pdf.jar` is the only jar file required to run the tiff2pdf application. The main class name to start Tiff2PDF is `tiff2pdf.class`.

Environment Variable Settings

- **Windows Platform**

```
set CLASSPATH=tiff2pdf.jar;%CLASSPATH%
```

- **Non-Windows Platform**

```
export CLASSPATH=tiff2pdf.jar;$CLASSPATH
```

To run Java Tiff2PDF you can use one of these options:

- Java command line.
- Client/Server model.

Java command line

To transform a Tiff file into a PDF:

1. Run Java command. This requires a `tiff2pdf.jar` file.
2. Set `CLASSPATH` to include the full path of the jar file.
    - For Windows:

```
set CLASSPATH=<directory>\tiff2pdf.jar;%CLASSPATH%
```

    - For other operating systems:

```
export CLASSPATH=<directory>/tiff2pdf.jar:$CLASSPATH
```

Note

- Setting CLASSPATH should be on a single line.

Java Tiff2PDF command options

Command line syntax

```
java tiff2pdf [Options] < input tiff file name> <output pdf file name>
```

Options:

—w image fit width *(Optional)*

Specifies the image width to fit.

Default value: **612**.

—h image fit height *(Optional)*

Specifies the page height to fit.

Default value: **792**.

—c creator *(Optional)*

Specifies the creator of the document.

—a author *(Optional)*

Specifies the author of the document.

—t title *(Optional)*

Specifies the title of document.

—s subject *(Optional)*

Specifies the subject of the document.

—k keywords *(Optional)*

Species the keywords included in the document

For example: java tiff2pdf —c "Mark Johnson" `test.tiff test.pdf`

Running Java Tiff2PDF Server

Set `CLASSPATH` to include:

- `tiff2pdf.jar`

Command line syntax

```
java Tiff2PdfServer [-start] | [-stop] [-p socket_port] [-r rmi_port] [-t temp_dir]
```

Values:

—start

Start the server.

—stop

Stop the server.

—p socket_port

Socket port number for local client.

Default value: **8800**.

This flag is optional.

—r rmi_port

RMI port number for remote Tiff2PdfServer.

Default value: **8801**.

This flag is optional.

—t temp_dir

Temporary directory name.

Default: **<currentDir>/temp**.

This flag is optional.

Examples for running Server

Example 1

1. To start Tiff2Pdf Server set these values:

   Client port:

   Default **8800**.

   RMI port:

   Default **8801**.
2. Enter the command line: `java Tiff2PdfServer –start`.
3. To stop Tiff2Pdf Server enter: `java Tiff2PdfServer –stop`.

Example 2

1. To start Tiff2Pdf Server set these values:

   Client port: 7200.

   RMI port: 7201.

   Tempdir: /mydir/tmp.
2. Enter the command line: `java Tiff2PdfServer –start –p 7200 –r 7201 –t /mydir/tmp`.
3. To stop Tiff2Pdf Server enter: `java Tiff2PdfServer –stop –p 7200`.

Running Java Agent on client machine

Set CLASSPATH to include:

- `tiff2pdf.jar`

Command line syntax

```
java Tiff2PdfAgent [-p client_port] [-s server_host_name] [-sp server_rmi_port]
[-stop]
```

Values:

–p client_port *(optional)*

The port number C/C++ tiff2pdf is connected to.

Default value: **8800**.

–s server_host_name

The server host name where Tiff2PdfServer is running.

–sp server_rmi_port *(optional)*

The server port number Tiff2PdfAgent is connected to.

Default value: **8801**.

—stop

Stop the Tiff2PdfAgent.

Examples for running Agent on client machine

Example 1

1. To start Tiff2Pdf Agent set these values:

   Client port:

   Default **8800** for C/C++ client.

   Remote host where Tiff2PdfServer is running: server1.

   RMI port:

   Default **8801**.
2. Enter the command line: `java Tiff2PdfAgent —s server1`.
3. To stop Tiff2PdfAgent enter: `java Tiff2PdfAgent —s server1 —stop`.

Example 2

1. To start Tiff2PdfAgent set these values:

   Client port: 9500.

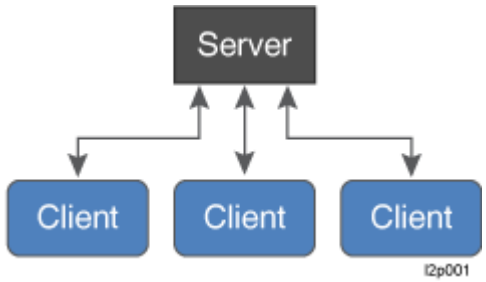
   For C/C++ client.

   Remote host where Tiff2PdfServer is running: server1.

   RMI port: 7201.
2. Enter the command line: `java Tiff2PdfAgent —p 9500 —s server1—sp 7201`.
3. To stop Tiff2PdfAgent enter: `java Tiff2PdfAgent —s server1 —p 9500 —stop`.

3. Client/Server Model

- **Client Native C/C++ Program**
- **Client and Server on the same machine**
- **Client and Server on different machines**
- **Enabling Debug Mode for Server and Agent**



Client is C++ native code, while Server is Java code.

Client supports:

- Windows
- Linux
- AIX
- Sun
- zOS/USS
- zLinux

Client/Server Model topology has 2 options:

- Client and Server on the same machine.
- Client and Server on different machines.

Typical Client/Server Model using default ports

Client Machine

Tiff2PdfAgent uses:

- Socket port for local C/C++ tiff2pdf: **8800**.
- RMI port to connect to Tiff2PdfServer on Server Machine: **8801**.

To start Tiff2PdfAgent on Client Machine, enter `java Tiff2PdfAgent –s <Server Machine name>`.

To submit the job, run client C/C++tiff2pdf on Client Machine and enter `tiff2pdf <input tiff file> <output pdf file>`.

Server Machine

Tiff2PdfServer uses:

- Socket port for local C/C++ tiff2pdf: **8800**.
- RMI port to connect to Tiff2PdfAgent on Agent Machine: **8801**.

To start server on Server Machine, enter `java Tiff2PdfServer –start`.

Run client C/C++ tiff2pdf on Server Machine and enter `tiff2pdf <input tiff file> <output pdf file>`.

Client Native C/C++ Program

Executable Programs

Windows: `tiff2pdf.exe`.

Other operating systems: `tiff2pdf`.

Syntax

```
tiff2pdf [port number] < java tiff2pdf arguments>
```

Options:

port number (optional)

Socket port number. Default value: **8800**.

<java tiff2pdf argument options>

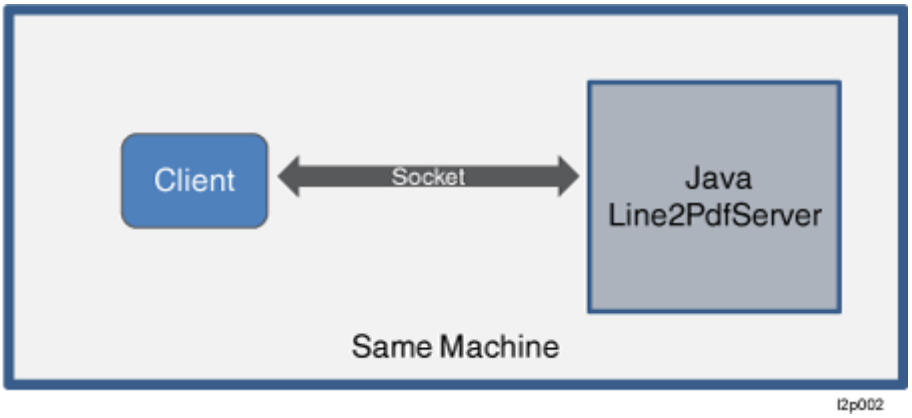
Same as Java command line.

Return code

0: if no error.

Other numbers: if error occurs.

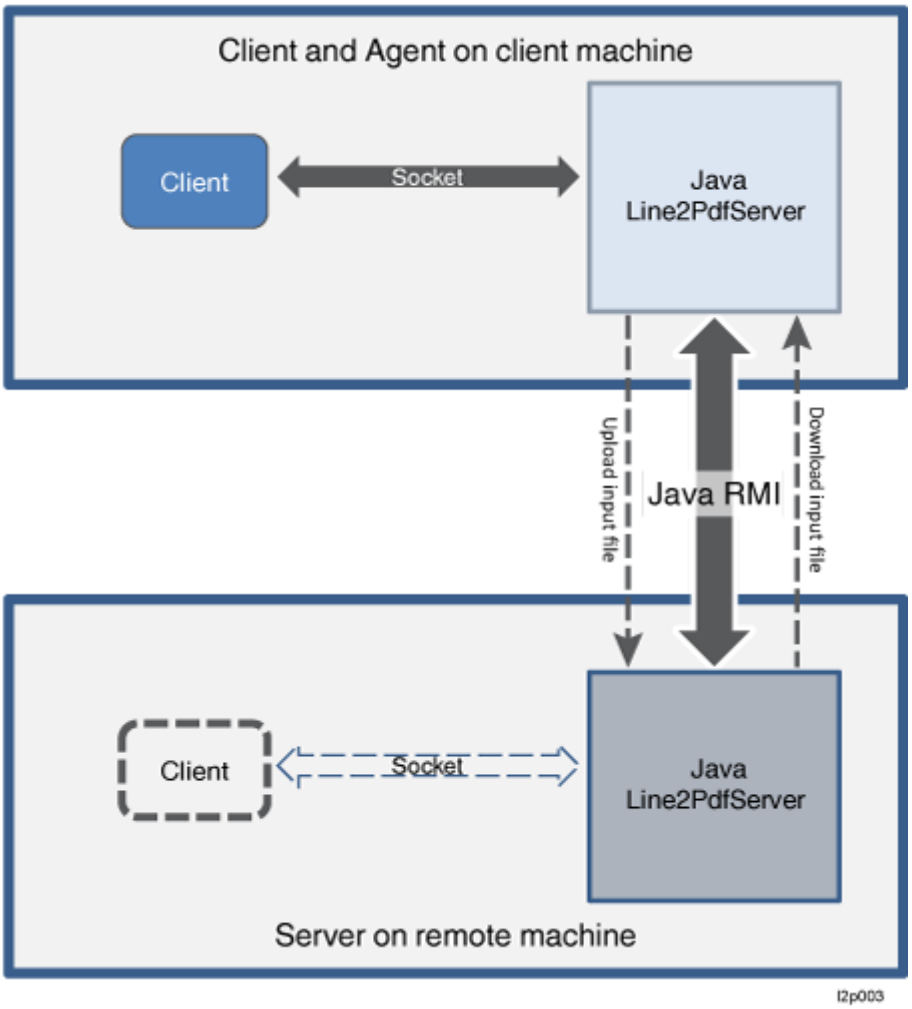
Client and Server on the same machine



1. Client sends the command line arguments to server through socket communication.
2. Server sends a thread to transform tiff data to pdf and then sends the messages back to client to indicate if completed or failed.

Client and Server on different machines

The Client/Server Model with Client and Server on different machines requires that the agent Tiff2PdfAgent is based on the client machine.



The Client and Agent use the socket for communication, while Agent and Server use Java RMI.

The Agent redirects the client requests to remote server. The Tiff2PdfAgent receives the messages from remote server and then redirects the received messages to the client.

The Agent uploads the input tiff file to the server and downloads the output PDF file from the server, if transform is completed.

Enabling Debug Mode for Server and Agent

To turn on the debug mode on Tiff2PdfServer and Tiff2PdfAgent use a hidden flag.

Flag **—debug** must be on the first argument. When debug mode is **On** debug information is printed on the console.

Example of Tiff2PdfServer on debug mode:

```
java Tiff2PdfServer —debug —start —p 7200 —r 7201
```

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