

PROCESS DIRECTOR

Web Application Technical Specifications

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Introduction

This document lists the hardware and software requirements for running the PROCESS DIRECTOR Web Application.

The PROCESS DIRECTOR Web Application allows users outside an SAP environment to participate in workflows and perform other PROCESS DIRECTOR actions using a web browser.

The PROCESS DIRECTOR Web Application is a Java web application. It is delivered as a J2EE-compatible web archive or WAR files. Although it normally runs on its own server, installation on systems running other applications is also possible.

This document contains the following chapters:

- [Hardware requirements](#)
- [Software requirements](#)
- [Tested environments](#)

Hardware requirements

The PROCESS DIRECTOR Web Application should run on its own server. Installation on systems running other applications is also possible, as well as installation on a Virtual Machine.

The following table lists the minimum hardware requirements.

Item	Requirement
RAM	About 30 MB per concurrent user session are recommended. Thus, if 100 users are logged on simultaneously, you can expect memory usage of around 3 GB.

For information about support for mobile devices, please contact your local Lexmark Enterprise Software representative or Enterprise Software Support.

Software requirements

The following table lists the recommended software as well as the minimum requirements:

Item	Recommendation	Minimum requirement
Operating system	Windows 7 Windows 2012 Server Windows Server 2008 or 2008 R2 Windows Server 2003	Any operating system supported by the other software components below.
Web browser	(No recommendation)	Internet Explorer, versions 10 and 11 Microsoft Edge Mozilla Firefox, version 3 and higher Safari, version 4 and higher Google Chrome
Java Runtime Environment (JRE)	JRE 7 JRE 8	JRE 6
Web application server	Apache Tomcat 6.0 Apache Tomcat 7.0 Apache Tomcat 8.0 (with JRE 7 or 8) Apache Tomcat 9.0 (with JRE 7 or 8) SAP NetWeaver CE version 7.3 or higher	J2EE compatible Java Servlet 2.4 Java Server Pages (JSP) 2.0
Java Connector (JCo)	3.0 (see Using JCo 3.0)	2.1.10

Important: The parameter *pd_suggest_jpa* must be set to *no* for NetWeaver installations.

Note: If using a 64bit version of JRE, the other components must also be 64bit.

Note: The PROCESS DIRECTOR Web Application only works if PROCESS DIRECTOR is installed. See the *Importing PROCESS DIRECTOR into SAP* for instructions on installing PROCESS DIRECTOR.

Using JCo 3.0

With JCo3, if you deploy several instances of the Web Application on Tomcat, only the first instance that connects to JCo3 after restarting Tomcat will work. This also applies if you deploy one instance of the PROCESS DIRECTOR Web Application together with other web applications such as MOBILE APPROVAL and INFO MAIL. If you wish to use multiple instances or web applications, you must move the *jcolayer* library to the Tomcat main library folder and remove it from all Web Application library folders.

1. Deploy all instances of the Web Application(s) that you wish to use.
2. Start Tomcat.
3. After the WAR files are unpacked, go to the *Tomcat/webapps/pdweb-app/WEB-INF/lib* folder of the newest Web Application and copy the *jcolayer*.jar* file to the *Tomcat/lib* folder (the name of this file may vary; for example, it could be *jcolayerB030204.jar* or *jcolayer-1.0-SNAPSHOT.jar*).
4. Remove the *jcolayer*.jar* file from the *Tomcat/webapps/pdweb-app/WEB-INF/lib* folder of all deployed Web Application instances.
5. Restart Tomcat.

Note: When using JCo 3.0, the maximum number of SAP connections specified in the *saplogon.properties* file is not multiplied by 10 internally (unlike in JCo 2, where *maxconnections=10* actually means 100).

Tested environments

Note: All tests with our web applications are performed within Microsoft Windows environments only.

Item	Tested with
Operating system	<ul style="list-style-type: none"> • Windows 7 • Windows Server 2008 R2, 2008 and 2003 • SUSE Linux Enterprise Server 11.4
Java Runtime Environment (JRE)	<ul style="list-style-type: none"> • Java 6 (JRE 6) • Java 7 (JRE 7) • Java 8 (JRE 8)
Web application server	<ul style="list-style-type: none"> • Apache Tomcat 6.0 • Apache Tomcat 7.0 • Apache Tomcat 8.0 (with Java 7 or 8) • Apache Tomcat 9.0 (with Java 7 or 8)
SAP Java Connector (JCo)	<ul style="list-style-type: none"> • 2.1.10 • 3.0