

# PROCESS DIRECTOR

## Web Application Technical Specifications

Version: 7.5

Date: 2018-11-16



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## Overview

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.

The environments on which the Web Application is tested are also listed.

## 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, contact your 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	Microsoft Windows Server 2012 or 2012 R2 Microsoft Windows Server 2008 or 2008 R2 Microsoft Windows 10, versions 1507 and 1511 Microsoft Windows 8 Microsoft Windows 7	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
SAP Java Connector (SAP JCo)	3.0 (see <a href="#">Using SAP Java Connector (SAP JCO) 3.0</a> )	2.1.10

**Important:** The parameter *pd\_suggest\_jpa* must be set to *no* for SAP NetWeaver installations.

### Notes:

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

- The PROCESS DIRECTOR Web Application works only if PROCESS DIRECTOR is installed. For instructions on installing it, see the *PROCESS DIRECTOR Import Guide*.
- The PROCESS DIRECTOR Web Application and the Web Service API builds are based on Java. This makes the application independent of any specific operating system, as compared to other programming platforms.
- The JRE is specific to the operating system and its CPU.
- The SAP JCo implements functionality that is specific to the operating system because it runs dedicated network sockets and builds an RFC connection to the SAP ERP.

### Using SAP Java Connector (SAP JCo) 3.0

With SAP JCo 3.0, if you deploy several instances of the PROCESS DIRECTOR Web Application on Apache Tomcat, only the first instance that connects to JCo 3.0 after restarting Tomcat will work.

This also applies if you deploy one instance of the Web Application together with other web applications such as Email-based 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.

To deploy multiple instances of SAP JCo 3.0, complete the following steps.

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	Microsoft Windows 7 Microsoft Windows Server 2008 R2, 2008 and 2003 SUSE Linux Enterprise Server 11.4
Java Runtime Environment (JRE)	Java 6 (JRE 6) Java 7 (JRE 7) Java 8 (JRE 8)
Web application server	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)	2.1.10 3.0