

# **Prizm Content Connect Plus Installation Guide for Linux**

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# Preface

---

This document describes how to integrate and use Prizm Content Connect Plus with your application.

## Intended Audience

The audience of this manual is intended to be developers who are familiar with Java, Java Script, & overall Linux OS.

## Revision History

The following changes have been made to this document.

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<b>Revision History</b>	<b>Revision Date</b>	<b>Description</b>
Oct 11		Draft for version 4.6.3
Feb 12		Draft for version 5.0

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# Chapter 1

## Introduction

Prizm Content Connect Plus is a web based online document viewer and can be embedded into any web page or linked from any page. It is fast and customizable.

Prizm Content Connect Plus lets you easily [convert](#) any document (Microsoft Word, or Excel, or PowerPoint document) or virtually any other formats to an Adobe ® Flash ® file (file with SWF extension). This file can be shared with other users who do not have the default viewing applications installed on their machines. These files can also be published over the web and accessed from anywhere in the world.

You can [view](#) the final converted files with Adobe ® Flash ® Player across various platforms and retain the formatting, graphics, fonts, special characters, and colors of source documents, regardless of the application used to create the document.

## Server Specifications

### *Supported Operation Systems*

The operating systems listed here have been tested with Prizm Content Connect Plus Server and are officially supported:

- BSD 6.3 +
- BSD 6.3 x64 +
- CentOS 4.7 +
- CentOS 4.7 x64 +
- Debian 4.0 +
- Debian 4.0 x64 +
- Fedora Core 5 +
- Fedora Core 5 x64 +
- Redhat Enterprise Linux 4.7 +
- Redhat Enterprise Linux 4.7 x64 +
- SUSE Linux Enterprise Server 10 +
- Ubuntu 6 +
- Ubuntu 6 x64 +

### *System Requirements*

- Minimum 2GB RAM (Recommended 4GB+ RAM)
- 450 MB of free disk space
- Internet Explorer 5+ or Mozilla Firefox 2+

## Client Specifications

Any JavaScript enabled modern browser with minimum Adobe Flash 9.0+ Plug-in installed.

# Installation

Installation of Prizm Content Connect Plus is very straightforward for a Linux environment. Just follow these steps.

Note that some steps may be specific to a particular Linux distribution; these steps will be labeled as being specific to one of the following:

“Red Hat / Fedora (CentOS) Linux Distributions”  
“Debian (Ubuntu) Linux Distributions”

Note: The hash sign (#) is used to represent the command prompt. Do not include it when entering the commands.

### **Make sure you login as root to the machine.**

#### **1) Install Open Office**

You will need to install latest version of Open Office for your OS. Download and install it from this location:

<http://download.openoffice.org/other.html#en-US>

You can download Open Office Detailed Installation instructions from this location:

[http://download.openoffice.org/common/instructions.html#other\\_linux](http://download.openoffice.org/common/instructions.html#other_linux)

Note- Don't worry about UI setups steps of Open Office configuration, as those steps are not needed.

An easier way to install open office is using yum or apt-get, as shown below; however, this may not work on all versions of all Linux flavors listed below.

*Red Hat / Fedora (CentOS) Linux Distributions*

```
# yum install openoffice.*
```

*Debian (Ubuntu) Linux Distributions*

```
# sudo apt-get install python-software-properties  
# sudo add-apt-repository "deb http://archive.canonical.com/ lucid partner"  
# sudo apt-get update  
# sudo apt-get install openoffice.org3
```

**Note-** The Open Office installation might fail if you have Open Office or any other application already listening on port 18580, 18590, 18591, 18592, 18593, 18584, 18585, 18586, 18680. By Default Prizm install proxy service on port 18580 and uses 3 ports 18591, 18592, 18593, 18584, 18585, 18586, 18680 for conversion purposes. You can add more ports as your traffic increases.

#### **2a) Install C Compiler – Red Hat / Fedora (CentOS) Linux Distributions**

Note: The hash sign (#) is used to represent the command prompt. Do not include it when entering the commands.

Make sure you have C compiler installed on your server. You can install C compiler by running following commands:

```
# yum groupinstall "Development Tools"
```

Check the development tools have been installed correctly:

```
# gcc -v
Using built-in specs.
Target: x86_64-redhat-linux
Configured with: ../configure
...
Thread model: posix
gcc version 4.1.2 20080704 (Red Hat 4.1.2-51)
```

```
# make -v
GNU Make 3.81
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PARTICULAR PURPOSE.
```

This program built for x86\_64-redhat-linux-gnu.

### **2b) Install C Compiler – *Debian (Ubuntu) Linux Distributions***

Make sure you have C compiler installed on your server. You can install C compiler by running following commands:

```
# sudo apt-get update
# sudo apt-get upgrade
# sudo apt-get install build-essential
```

Check the development tools have been installed correctly:

```
$ gcc -v
COLLECT_GCC=gcc
COLLECT_LTO_WRAPPER=/usr/lib/x86_64-linux-gnu/gcc/x86_64-linux-gnu/4.5.2/lto-wrapper
Target: x86_64-linux-gnu
Configured with: ../src/configure -v
...
Thread model: posix
gcc version 4.5.2 (Ubuntu/Linaro 4.5.2-8ubuntu4)
```

```
# make -v
GNU Make 3.81
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There is NO warranty; not even for MERCHANTABILITY or FITNESS FOR A
PARTICULAR PURPOSE.
```

This program built for x86\_64-pc-linux-gnu

### **3a) Install dependencies - *Red Hat / Fedora (CentOS) Linux Distributions***

Next install following packages on your server

```
# yum install zlib-devel
# yum install giflib-devel
# yum install libjpeg-devel
# yum install freetype-devel
# yum install t1lib-devel
```

Note: For more recent versions of CentOS, t1lib-devel may not be available. In that case, please ignore the message.

### **3b) Install dependencies - *Debian (Ubuntu) Linux Distributions***

Next install following packages on your server

```

# sudo apt-get install zlib1g-dev
# sudo apt-get install libgif-dev
# sudo apt-get install libjpeg62 libjpeg8 libjpeg8-dev
# sudo apt-get install libfreetype6 libfreetype6-dev
# sudo apt-get install libt1-dev
# sudo apt-get install libpng12-dev

- 32bit libs for 64bit OS (optional)
# sudo apt-get install ia32-libs

- java environment (optional)
# sudo apt-get install python-software-properties
# sudo add-apt-repository "deb http://archive.canonical.com/ lucid partner"
# sudo apt-get update
# sudo apt-get install sun-java6-jre

```

#### 4) Download & Extract Prizm

Next download prizmccplus-linux-5.0.tar.gz from the link in your license email

Make sure you have the root privileges:

```
# su
```

Password:

Note: For some Linux flavors you may need to use the command:

```
# sudo su
```

Create an installation directory for Prizm Content Connect Plus, recommended directory is:

```
/var/www/cgi-bin/
```

Copy tarball to /var/www/cgi-bin/ and extract it with command:

```
# tar xvzf prizmccplus-linux-5.0.tar.gz
```

Change current dir to the extracted directory:

```
# cd /var/www/cgi-bin/prizm/
```

The folder /var/www/cgi-bin/prizm/ is later denoted as <install>.

Open the file <install>/conf/jrunner-linux-x86-OS.properties, and make sure parameter

```
jrunner.java.command=../java/jre-linux-x86-OS/bin/java
```

specifies the location of your java binary according to your OS platform (where OS is either 32 or 64).

You may also specify just 'java' as well but make sure that at least Sun's (Oracle) JRE 1.5 is in searchable path.

Now Open file <install>/conf/proxyserver\_jar.properties and make sure that open office install location is correctly mentioned

```

odc_installation=/opt/openoffice.org3
#odc_installation=/usr/bin/openoffice.org
#odc_installation=/usr/lib/openoffice.org3
#odc_installation=/usr/lib64/openoffice.org3

```

To make sure you are pointing to correct path of Open Office installation, one quick check would be to make sure you see file structure like below on your install path of OpenOffice.org on 64bit platform:

```
/usr/lib64/openoffice.org3/LICENSE.html
/usr/lib64/openoffice.org3/README
/usr/lib64/openoffice.org3/share
/usr/lib64/openoffice.org3/LICENSE
/usr/lib64/openoffice.org3/program
/usr/lib64/openoffice.org3/README.html
/usr/lib64/openoffice.org3/THIRDPARTYLICENSEREADME.html
```

and under the /usr/lib64/openoffice.org3/program folder you will see following files

```
about.bmp      redirectrc  sdraw.bin   soffice.bin  unopkg
bootstraprnc  resource  setuprc     sofficer     unopkg.bin
crash_report  sbase     simpres     spadmin      versionrc
fundamentalrc  scalc     simpres.bin swriter
intro.bmp     scalc.bin smath       swriter.bin
libnpsoplugin.so sdraw    soffice     unoinfo
```

### 5) Assign permissions

Assign executable, read write permissions to modules & convert2swf.jar

```
# chmod -R 775 <install>/modules/*
# chmod 775 <install>/*.jar
```

### 6) Add Registration Key

Open the <install>/conf/proxyserver\_jar.properties using the vi editor

Look for # Registration info and enter your customerid & regkey as shown below:

```
# Registration info
customerid=xxxxxx
regkey=xxxx-xxxx-xxxx-xxxx-xxxx-xxxx
```

### 7) Compile and Build the project

Extract tarball with command:

```
# tar xvzf c2s_tools.tar.gz
```

This will untar these files

```
inst_c2s_tools-deb.sh
inst_c2s_tools-red.sh
inst_c2s_tools.sh
swftools-0.9.0.tar.gz
swftools-0.9.1.tar.gz
```

For your convenience, Compile and Build command are already put in the inst\_c2s\_tools.sh.

Simple execute ./inst\_c2s\_tools.sh:

```
# ./inst_c2s_tools.sh
```

If the above command gives an error, try to execute the install tool specific for your Linux distribution:

*Red Hat / Fedora (CentOS) Linux Distributions*

```
# ./inst_c2s_tools-red.sh
```

*Debian (Ubuntu) Linux Distributions*

```
# ./inst_c2s_tools-deb.sh
```

If the above command specific to your Linux distribution also results in an error, execute the following steps manually:

**Note – Run these only if ./inst\_c2s\_tools-\*.sh results in an error**

1) make sure you are root  
# su

2) untar swftools  
a) *Red Hat / Fedora (Centos) Distro*  
# tar -xvzf swftools-0.9.0.tar.gz

b) *Debian (Ubuntu) Distro*  
# tar -xvzf swftools-0.9.1.tar.gz

3a) go to the swftools directory - Red Hat / Fedora (CentOS) Linux Distributions  
# cd swftools-0.9.0

3b) go to the swftools directory - Debian (Ubuntu) Linux Distributions  
# cd swftools-0.9.1

4) configure swftools  
# ./configure

5) make swftools  
# make clean  
# make

6) install swftools  
# make install  
# cd ..

7) link swftools into modules  
# ln -s -f `which pdf2swf` /modules/  
# ln -s -f `which jpeg2swf` /modules/  
# ln -s -f `which gif2swf` /modules/  
# ln -s -f `which png2swf` /modules/  
# ln -s -f `which swfcombine` /modules/

8) install ImageMagick  
a) *Red Hat / Fedora (Centos) Distro*  
# yum -y install ImageMagick

b) *Debian (Ubuntu) Distro*  
# apt-get install imagemagick

9) link ImageMagick into modules  
# ln -s -f `which convert` /modules/

## 8) Start the proxyserver

Start the server using the following command  
# <install>/scripts/proxyserver.sh start

You can also stop and check status of proxyserver using following commands  
# <install>/scripts/proxyserver.sh stop  
# <install>/scripts/proxyserver.sh status

To see the log files, check:

```
# more <install>/logs/proxyserver.log
```

You can also run proxyserver in a console

- run

```
# <install>/scripts/proxyserver.sh console  
to run the proxyserver in a console mode.
```

## 9) Verify that installation was successful

Go to <install>/logs directory, and open "proxyserver.log" file. Scroll down to the very end and verify that you see the following:

```
INFO | jvm 1 | 2011/12/16 22:02:57 | [ info ] [2 / 2] All worker instances has been started  
INFO | jvm 1 | 2011/12/16 22:02:57 | [ info ] Proxy listening on socket,host=localhost,port=18580  
INFO | jvm 1 | 2011/12/16 22:02:57 | [ info ] jvm restart schedule [1] : 06:00  
INFO | jvm 1 | 2011/12/16 22:02:57 | [ info ] [http-server] starting...  
INFO | jvm 1 | 2011/12/16 22:02:57 | [ info ] [http-server] created queue pool: 600  
INFO | jvm 1 | 2011/12/16 22:02:57 | [ info ] [http-server] binding to: socket,host=localhost,port=18680  
INFO | jvm 1 | 2011/12/16 22:02:57 | [ info ] [http-server] binded to: socket,host=localhost,port=18680  
INFO | jvm 1 | 2011/12/16 22:02:58 | [ info ]  
INFO | jvm 1 | 2011/12/16 22:02:58 |  
=====
```

```
INFO | jvm 1 | 2011/12/16 22:02:58 |  
INFO | jvm 1 | 2011/12/16 22:02:58 | Office Document Converter Proxy Server Started  
INFO | jvm 1 | 2011/12/16 22:02:58 |  
INFO | jvm 1 | 2011/12/16 22:02:58 |  
=====
```

You can also verify the installation by browsing to:

<http://localhost:18680/>

or

[http://<http\\_host>:<http\\_port>/](http://<http_host>:<http_port>/)

where *http\_host* and *http\_port* are the property values from  
<install>/conf/proxyserver.jar.properties

The url above should show in a browser text similar to this:

```
Prizm Conversion Server is running.  
Server Time: Fri Jun 24 14:58:21 PDT 2011
```

## 10) Initialize the proxyserver

Initialize the proxyserver using the following commands:

```
# cd <install>
```

If using a 32-bit OS

```
# ./java/jre6-linux-x86-32/bin/java -jar ./convert2swfclient.jar firstinit
```

Or, if using a 64-bit OS

```
# ./java/jre6-linux-x86-64/bin/java -jar ./convert2swfclient.jar firstinit
```

You should see output similar to this:

```
12:36:53.588 version: 4.6.3 (build 448)  
12:36:53.588 license: licensed [f:1]  
12:36:53.588 JVM: 1.6.0_26 (x64), Sun Microsystems Inc.  
12:36:53.589 jar: /var/www/cgi-bin/prizm/bin/proxyserver.jar  
12:36:54.915 modules: ../modules/
```

12:36:54.915 info: jar library and modules successfully initialized  
12:36:54.916 info: stopping global timer [1323970613586], interval: 1.132 secs  
12:36:54.916 task commander execution time: 1.224 seconds

If you see output similar to this, your proxyserver is NOT running:

```
java.net.ConnectException: Connection refused
    at sun.reflect.NativeConstructorAccessorImpl.newInstance0(Native Method)
        :
Caused by: java.net.ConnectException: Connection refused
    at java.net.PlainSocketImpl.socketConnect(Native Method)
    at java.net.PlainSocketImpl.doConnect(Unknown Source)
        :
    at sun.net.www.protocol.http.HttpURLConnection.connect(Unknown Source)
    at sun.net.www.protocol.http.HttpURLConnection.getInputStream(Unknown Source)
    ... 4 more
```

In such case, please see the previous steps how to start the proxyserver.

### Sample Code

Sample code files are included with the Prizm Content Connect installation to show how integration can work.

Location of Sample Code for AJAX based desktop client: <install>/Samples/Base

Location of Sample Code for Mobile client: <install>/Samples/Mobile

Location of Sample Code for Zero Footprint client: <install>/Samples/ZeroFootprint

Detailed instructions for configuring and using the sample code are in the Developer Guide

Location of Developer Guide: <install>/

### Registration & Activation

Evaluation Trial version of Prizm Content Connect Plus should be used only for evaluation purposes. The evaluation version of Prizm Content Connect Plus is fully functional within the 30 days after its installation and allows you to convert the documents and images to web ready viewable formats. The evaluation version of Prizm Content Connect Plus adds a DEMO watermark on the documents and also opens a popup when the viewer loads.

To use Prizm Content Connect Plus after this period expires or for business purposes, you must register your software copy and obtain a license.

Note that no license is needed to [view](#) the Prizm Content Connect Plus documents. Users can see the documents even on those computers where Prizm Content Connect Plus is not installed. The license is needed only to start the Prizm Content Connect Plus Service and to [create](#) & convert the documents.

After purchasing a production license, you will get a registration key along with a customerid that you will need to activate the Prizm Content Connect Plus.

#### Setting your customerid & registration key

To activate the key follow these steps:

Step1: Stop the proxy service.

```
- run  
  <install>/scripts/proxyserver.sh stop
```

Step2: Go to <install>/conf.

Open the proxyserver\_jar.properties using the notepad

Look for # Registration info and enter your customerid & regkey as shown below:

```
# Registration info  
customerid=xxxxxxxxxx  
regkey= xxxx-xxxx-xxxx-xxxx-xxxx
```

Step 3: Start the proxy service back.

```
- run  
  <install>/scripts/proxyserver.sh start
```

Contact us at [support@accusoft.com](mailto:support@accusoft.com) if you encounter problems in registration or while activating your software.