

Prizm Content Connect Installation Guide for Linux

Version 5.0

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(<http://www.jdom.org/docs/faq.html#a0030>)

JRE 1.6.0.26 (<http://www.oracle.com/technetwork/java/javase/downloads/index.html>)
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License: BSD-like license (<install path>/licenses/OdfConverter/license.txt)
Implementation/Integration: This open source product has not been recompiled and a call to binary file (OdfConverter) is directly made from the code, keeping the binaries totally separate from the Prizm Source Code.

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Implementation/Integration: This open source product has not been recompiled and a call to binary file is directly made from the code, keeping the binaries totally separate from the Prizm Source Code.

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JavaBeans Activation Framework

(<http://www.oracle.com/technetwork/java/javase/downloads/index-135046.html>)

Download: <http://www.oracle.com/technetwork/java/javasebusiness/downloads/java-archive-downloads-java-plat-419418.html#jaf-1.1-fr-oth-JPR>

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SWF Tools (<http://www.swftools.org>)

Source: <install path>/src/SWFTools/0.9.0/

Source: <install path>/src/SWFTools/0.9.1/

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The Linux Server component of the Program also uses the following software, installed separately:

ImageMagick (<http://www.imagemagick.org>)

OpenOffice.org (<http://www.openoffice.org/>)

GraphicsUtil (<http://www.dncompute.com/blog/2008/07/17/graphicsutil-a-utility-class-for-drawing-arrows.html>)

Copyright (c) 2008 Noel Billig (www.dncompute.com)

Download: <http://www.dncompute.com/blog/2008/07/17/graphicsutil-a-utility-class-for-drawing-arrows.html>

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URL Validator (<http://ctrloptcmd.com/archives/587/actionsript-3-url-validator-class/>)

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Download: <http://ctrloptcmd.com/as3/URLValidator.as>

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Download: http://docs.jquery.com/Downloading_jQuery

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(<http://www.appelsiini.net/projects/viewport>)
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transform: A jQuery cssHooks adding cross-browser 2d transform capabilities to \$.fn.css() and \$.fn.animate()

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jQuery Patch (<http://www.zachstronaut.com/posts/2009/08/07/jquery-animate-css-rotate-scale.html>)
2009-2010 Zachary Johnson www.zachstronaut.com
Download: <https://github.com/zachstronaut/jquery-animate-css-rotate-scale/>
License: MIT (<https://github.com/zachstronaut/jquery-animate-css-rotate-scale/blob/master/README>)

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Preface

This document describes how to integrate and use Prizm Content Connect 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.

| Revision History | Revision Date | Description |
|-------------------------|----------------------|--------------------|
|-------------------------|----------------------|--------------------|

| | | |
|--------|--|-------------------------|
| Oct 11 | | Draft for version 4.6.3 |
| Feb 12 | | Draft for version 5.0 |

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Introduction

Prizm Content Connect is a web-based online document viewer that can be embedded into any web page or web application. It is fast and fully customizable, and enables conversion of virtually any type of document (including Microsoft Word, or Excel, or PowerPoint document) to an Adobe ® Flash ® file (.swf). 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, or viewed with Adobe ® Flash ® Player across various platforms. The formatting, graphics, fonts, special characters, and colors of source documents are retained, regardless of the application used to create the original document.

Specifications: Server

Supported Operation Systems

The operating systems listed here have been tested with Prizm Content Connect 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 AJAX Document Viewer is very straightforward for 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

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
Copyright (C) 2006 Free Software Foundation, Inc.
This is free software; see the source for copying conditions.
There is NO warranty; not even for MERCHANTABILITY or FITNESS FOR A
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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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 prizmcc-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, recommended directory is:

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

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

```
# tar xvzf prizmcc-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     uninfor
```

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 gives an error, execute the following steps manually:

Note – Run these only if ./inst_c2s_tools-*.sh gives 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>/

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

If you have received the evaluation version of Prizm Content Connect, it will be fully functional for 30 days after its installation. This will allow you to convert documents and images to web ready viewable formats. The evaluation version of Prizm Content Connect adds a DEMO watermark on the documents and also opens a popup when the viewer loads.

To use Prizm Content Connect 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 converted documents – these can be viewed even on those computers where Prizm Content Connect is not installed. The license is needed only to start the Prizm Content Connect services and to convert documents.

After purchasing Prizm Content Connect, you will receive a license key along with a customerid. Keep these in a safe place, as you will need them to activate the product. A single Prizm Content Connect license allows you to install and setup the software on one server, for up to 25 users. A separate license should be bought for each additional server or machine, or each increment of 25 users.

Activating the product with your customerid & license 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 if you encounter problems in registration or while activating your software.