

**Dynamic Converter Installation Guide**  
10g Release 3 (10.1.3.3.1)

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Dynamic Converter Installation Guide, 10g Release 3 (10.1.3.3.1)  
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Zlib License . . . . . B-4  
General BSD License. . . . . B-5  
General MIT License . . . . . B-5  
Unicode License. . . . . B-6  
Miscellaneous Attributions . . . . . B-7

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# OVERVIEW

This section covers the following topics:

- ❖ [About Dynamic Converter](#) (page 1-1)
- ❖ [Dynamic Converter Process](#) (page 1-3)
- ❖ [System Requirements](#) (page 1-4)
- ❖ [Library Dependencies](#) on page 1-5

## ABOUT DYNAMIC CONVERTER

---

Dynamic Converter is an optional add-on component to Content Server. It operates on the output side and converts files checked into Content Server to HTML on demand and on the fly—that is, at the moment a web browser calls them. A number of output files may be generated for each content item, including HTML files and GIF images. This HTML rendition allows web viewing of the content without the need for a native application (the application that was used to create the file).

Dynamic Converter can convert more than 390 file formats to HTML. It uses rules-based templates to deliver a consistent look and feel for converted content. Templates are used to define how the parts of a document (called elements) should appear on a web page, and the layout template, in particular, is used to define the environment of the web page (borders, navigation, etc.).

The HTML renditions of source documents in the content server are made available to users via an HTML link on the search results page and the content information page in the content server (see Figure 1-1 and Figure 1-2).

Figure 1-1 HTML Rendition link in actions menu on search results page

Search Results Found 7 items

Change View Query Actions

| ID                                 | Title                               | Date    | Author   | Actions |
|------------------------------------|-------------------------------------|---------|----------|---------|
| <a href="#">ppt_sample</a>         | PP Sample                           | 3/6/07  | sysadmin |         |
| <a href="#">plainscript</a>        | plain script                        | 3/6/07  | sysadmin |         |
| <a href="#">default</a>            | default                             | 3/6/07  | sysadmin |         |
| <a href="#">acclaim</a>            | Acclaim                             | 3/6/07  | sysadmin |         |
| <a href="#">Executive_overview</a> | Executive Overview                  | 3/6/07  |          |         |
| <a href="#">install_guide</a>      | Acme Engineering Installation Guide | 2/23/07 |          |         |
| <a href="#">exec_template</a>      | Executive Template                  | 2/22/07 |          |         |

Content Information  
 Check Out  
 Get Native File  
 Check In Similar  
 Send link by e-mail  
**HTML Rendition**

Figure 1-2 HTML link on content information page

Content Information

Content Actions E-mail

**Content ID:** Executive\_overview  
**Revision:** 1  
**Type:** ADACCT - Acme Accounting Department  
**Title:** Executive Overview  
**Author:** sysadmin  
**Comments:**  
**Template Type:**  
**Security Group:** Public  
**Checked Out By:**  
**Status:** Released  
**Formats:** application/msword

Links

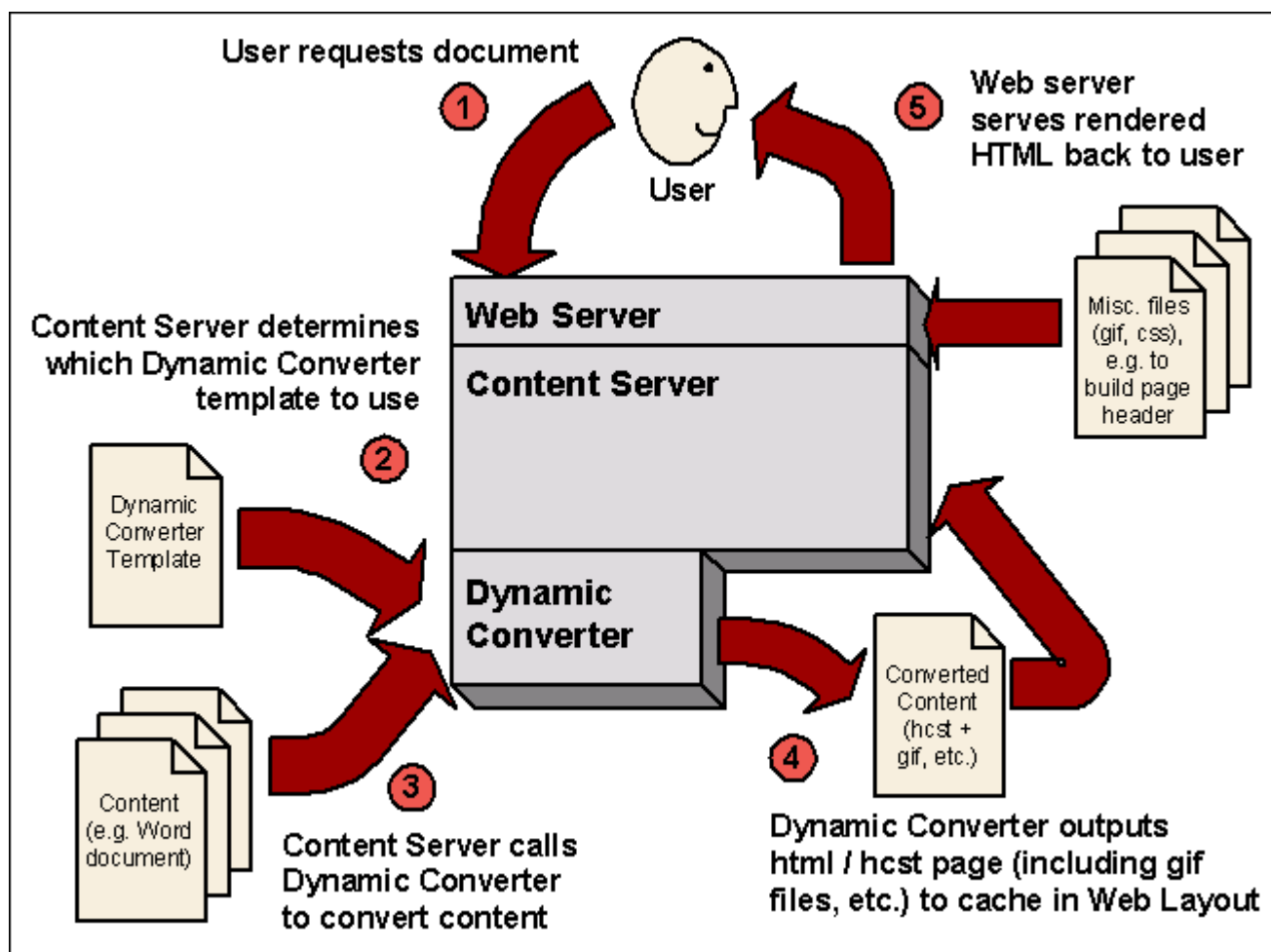
**Web Location:** [http://SCSTEST7/stellent/groups/public/documents/adacct/executive\\_overview.doc](http://SCSTEST7/stellent/groups/public/documents/adacct/executive_overview.doc)  
**Get Conversion (HTML)**  
**Native File:** [dc\\_sample.doc](#)

| Revision | Release Date   | Expiration Date | Status   | Actions                |
|----------|----------------|-----------------|----------|------------------------|
| [ 1 ]    | 3/6/07 5:02 PM | None            | Released | <a href="#">Delete</a> |

# DYNAMIC CONVERTER PROCESS

Figure 1-1 shows the basic Dynamic Converter process:

**Figure 1-1** The basic Dynamic Converter process



The process consists of five steps:

1. A user requests a content item through a web browser.
2. The web server passes this request to Content Server, which determines the template to be used for the HTML conversion (based on metadata matching criteria).
3. Content Server then calls Dynamic Converter to convert the native file (for example, a Word document or Excel spreadsheet).

4. The conversion produces one or more HTML pages with supporting files (GIF, JPEG, etc.), which Dynamic Converter outputs to a special caching area in Dynamic Converter's web-viewable file repository ("Web Layout").
5. The web server retrieves any additional files (for example, CSS files or images used for the page header and footer), and serves these—together with all files produced by Dynamic Converter—to the user.



**Note:** Dynamic Converter uses advanced caching technology to reduce the load on the server and ensure that documents are not unnecessarily re-translated. See the *Dynamic Converter Administration Guide* for further details.

## SYSTEM REQUIREMENTS

---

Dynamic Converter is supported on Microsoft Windows, Sun Solaris (SPARC), HP-UX, IBM AIX, and Linux.

Before installing Dynamic Converter, make sure the following system requirements are met:

- ❖ Your server must have Content Server version 10gR3 successfully installed and running. See the Content Server installation guides for more information on server requirements. Dynamic Converter 10gR3 is not compatible with Content Server releases prior to 10gR3.
- ❖ If you are running a UNIX operating system, your installation must be compatible with Content Server. See the Content Server installation guides for more information.
- ❖ If you are running a UNIX operating system, the user running the content server must have write access to **/tmp**. Without this access, dynamic conversions will not succeed.
- ❖ Your client systems must have one of the following web browsers:
  - **Internet Explorer:** version 4.0 or higher
  - **Netscape:** version 4.06 or higher
- ❖ The Template Editor must be downloaded onto a machine running Microsoft Windows and Internet Explorer version 4.0 or higher.



# LIBRARY DEPENDENCIES

---

Please note the following library dependencies for UNIX and Linux operating systems:

## **Solaris**

- ❖ If you are running Solaris, the following libraries are required for Dynamic Converter to work correctly:
  - libgcc\_s.so.1
  - libstdc++.so.6
  - libm.so.2

## **Linux**

- ❖ If you are running Linux, the following library is required for Dynamic Converter to work correctly.
  - libstdc++.so.5

If this library is not on the Dynamic Converter computer, you need to install it manually. For Oracle Enterprise Linux 4 Update 4, the file is called *compat-libstdc++-33-3.2.3-47.3.i386.rpm* and is located on disc 1 (*Enterprise-R4-U4-i386-disc1.iso*). Install the file using the following command:

```
rpm -i compat-libstdc++-33-3.2.3-47.3.i386.rpm
```

Make sure that you execute the rpm command as the root user.

- ❖ If you are running Linux, the following library is required if you want to use X-Windows for rendering:
  - libXm.so.3

If this library is not on the Dynamic Converter computer, you need to install it manually. For Oracle Enterprise Linux 4 Update 4, the file is called *openmotif-2.2.3-10.RHEL4.5.i386.rpm* and is located on disc 2 (*Enterprise-R4-U4-i386-disc2.iso*).

## **AIX**

- ❖ If you are running AIX, the following library is required for Dynamic Converter to work correctly:

- libC.a

To obtain this library, visit the IBM web site at <http://www-306.ibm.com/software/awdtools/xlcpp/>, and download the appropriate version of the library for your AIX version.

## **HP-UX**

- ❖ If you are running HP-UX, the following libraries are required for Dynamic Converter to work correctly:

- libdld.2
- libc.2
- libcl.2
- libisamstub.1
- libCSup.2
- libstream.2
- libstd.2
- libstd\_v2.2
- libm.2
- libXll.sl

# INSTALLING AND ENABLING THE DYNAMIC CONVERTER SOFTWARE

Installing and setting up the Dynamic Converter software consists of the following steps:

1. [Pre-Installation Tasks and Considerations](#) (page 2-2):
  - ❖ [Reinstalling Dynamic Converter or Upgrading From an Earlier Version](#) (page 2-2)
  - ❖ [Installing or Upgrading Dynamic Converter on Master and Proxied Servers](#) (page 2-2)
  - ❖ [Rendering Graphics and Fonts in UNIX](#) (page 2-2)
2. [Installing and Enabling the Dynamic Converter Component](#) (page 2-6)
3. [Post-Installation Steps and Considerations](#) (page 2-7):
  - ❖ [Field Length Issue With IBM DB2](#) (page 2-8)
  - ❖ [Motif Library Compatibility on Linux](#) (page 2-8)
  - ❖ [Checking in Sample Templates](#) (page 2-9)
  - ❖ [Editing a Template](#) (page 2-10)
  - ❖ [Administration Tasks](#) on page 2-11



**Important:** Make sure that all system requirements are met before you install and set up Dynamic Converter.



**Note:** If you are planning to install Dynamic Converter on UNIX or Linux, see also [Library Dependencies](#) (page 1-5).

## PRE-INSTALLATION TASKS AND CONSIDERATIONS

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This document assumes the following:

- ❖ You have administrative rights to the system you are installing Dynamic Converter on.
- ❖ The system you are installing on meets the hardware and software requirements listed in [System Requirements](#) (page 1-4).

Before installing and enabling the Dynamic Converter component, decide if the following tasks should be completed instead of or in addition to regular installation:

- ❖ [Reinstalling Dynamic Converter or Upgrading From an Earlier Version](#) (page 2-2)
- ❖ [Installing or Upgrading Dynamic Converter on Master and Proxied Servers](#) (page 2-2)
- ❖ [Rendering Graphics and Fonts in UNIX](#) (page 2-2)

### Reinstalling Dynamic Converter or Upgrading From an Earlier Version

---

If you need to reinstall Dynamic Converter or are upgrading from an earlier Dynamic Converter version, uninstall the old Content Server component before installing the new one. See [Uninstalling the Dynamic Converter Component](#) (page A-1) for further details.

### Installing or Upgrading Dynamic Converter on Master and Proxied Servers

---

If you want to use Dynamic Converter on both a master content server and an associated proxied content server, install the Dynamic Converter component on both servers. Similarly, if your existing version of Dynamic Converter is currently installed on both a master and a proxied content server, you will need to upgrade both separately.

### Rendering Graphics and Fonts in UNIX

---

Dynamic Converter renders graphics and fonts using one of the following methods:

1. [Graphics Device Emulation](#) (page 2-3)
2. [X-Windows graphics hardware](#) (page 2-3)
3. [X-Windows Virtual Frame Buffer software](#) (page 2-4)

For Linux (32-bit Intel) and Solaris (Sparc), all three methods are supported, but the out-of-the-box default is option 1. For HP-UX and AIX, option 1 is not available and you need to set up either option 2 or 3.

## Option 1: Using Graphics Device Emulation on Selected Systems

Graphics Device Emulation renders graphics and fonts without the need to install a graphics card or the X-Windows Virtual Frame Buffer software. This method supports the use of TrueType fonts (with the .ttf and .ttc file extensions). If fonts cannot be found during conversion, the conversion will fail. The location of the fonts is controlled by the Font Path setting on Dynamic Converter's configuration page.



**Important:** If you copy TrueType fonts to your UNIX server, the file extensions must be in lower case.

If you wish to use X-Windows, enable the “Use X-Windows for Rasterization” setting on the Dynamic Converter Configuration page (see the *Dynamic Converter Administration Guide* for further details).

## Option 2: Using the X-Windows Graphics Hardware Technology

Under the X-Windows technology, Dynamic Converter requires access to a running X-Server, specifically to convert vector graphics since Dynamic Converter depends on the X-Server system to draw the pixels.

Vector graphics formats describe lines and fills. Common formats are WMF, EMF, CorelDRAW, Adobe Illustrator, Excel charts, Word autosshapes, and PowerPoint presentations. Raster graphics, on the other hand, contain pixel information of an image. Common file formats are BMP, JPEG, and GIF.

One way to tell the difference between a vector and a raster graphic is to try to stretch the image. Since vector graphics describe lines, they will re-compute the placement of the lines and the image should still look nice. Raster graphics, however, will become pixelated when you resize.

To convert vector graphics (as well as to properly measure text that spans multiple columns in a spreadsheet) you need to perform the following steps on a UNIX machine to allow Dynamic Converter to access the X-Server:

1. Log on to the local console as the user that Content Server is running as.

2. Give Content Server permission to use the running X-Server with the following command:  
`xhost +localhost`
3. Set your DISPLAY variable on the Configuration page to **:1.0**
4. Stop Content Server and then stop Admin Server.
5. Restart Admin Server and then restart Content Server.
6. Lock the console, leaving the user logged in. If the user logs off, graphic conversions will fail.

If you use option 2 and do not want to leave a user logged into the console, you can complete the following steps. If you do so, however, documents with vector graphics and some text in spreadsheet files will not convert successfully.

1. Log on to the local console as the user that Content Server is running as.
2. Restart Content Server.
3. Log off the local console.

### Option 3: Using X-Windows Virtual Frame Buffer Software

Another way to avoid having a user logged into the console is by using X-Windows virtual frame buffer software. This section explains how to install an X11R6 virtual frame buffer on Solaris that will work with or without a video card. (Other UNIX operating systems have similar installation steps.)

If you have problems or want help, please contact our consulting services.

#### **Step 1: Obtain the Required Files**

The first step is to obtain two files: **README.XVFB** and **X11R6\_bin.tar.Z**. These can be obtained from <ftp://ferret.wrc.noaa.gov> (in the *special\_request/xvfb* directory). You can log in anonymously.



Make sure you transfer the files in binary mode. In Windows, using `ftp://` in a browser window may not perform a binary transfer. Check the files size, the size of the file is important, not the size on disk.

## ***Step 2: Install the Binaries***

The second step is to install the downloaded binaries:

1. Place the tar file on your Solaris machine in a temporary location.
2. Change to root: **su**.
3. Create a directory: **mkdir /usr/X11R6**.
4. Change to the directory: **cd /usr/X11R6**.

Case is important here. Make sure that the “X” and “R” are both upper case.

5. Run the file: **uncompress <temp directory>/X11R6\_bin.tar.Z**.
6. Untar the file: **tar xvf <temp directory>/X11R6\_bin.tar.Z**.

## ***Step 3: Start the Virtual Frame Buffer***

Start the virtual frame buffer in a startup script in **/etc/init.d**, with a link made to the appropriate run-level folder. (The readme file contains an example of a startup script.)

1. As root, **cd /usr/X11R6/bin**.
2. Start with **./Xvfb :1 –screen 0 1024x768x8 &**

You need the leading **./** because, for security reasons, the root does not have the local directory in its path. If you are creating a startup script, there is no user login context yet, so you should start the command with the fully qualified command:

**/usr/X11R6/bin/Xvfb :1 –screen 0 1024x768x8 &**

This command starts an X server on device ‘**1**’, screen ‘**0**’. The X system allows more than one video device, and the first one is ‘**0**’. If you have more than one video card, adjust the device number. The X system also allows video devices to have more than one screen.

In our case, always specify screen **0**.

## ***Step 4: Reference the Virtual Frame Buffer***

Finally, you need to reference the virtual frame buffer:

1. After installing the Dynamic Converter component (see next page), open the Dynamic Converter configuration page in the Content Server interface.
2. Set your DISPLAY variable to **:1.0**.
3. Restart the content server.

# INSTALLING AND ENABLING THE DYNAMIC CONVERTER COMPONENT

---

The Dynamic Converter software includes a Content Server component file. Components are modules of program code, resources, and templates that modify or enhance the functionality of Content Server.



**Note:** If you want to use Dynamic Converter on both a master content server and an associated proxied content server, you need to install the Dynamic Converter component on both servers.

To install and enable the Dynamic Converter component, complete the following steps:

1. Ensure that your native OS utilities are installed, enabled, and running.
2. Open a new browser window and log into Content Server as a system administrator (with the “sysmanager” role).
3. Go to the Administration Applets page and click the **Admin Server** link.
4. On the Content Admin Server page, click the button of the content server instance that you want to install the Dynamic Converter component on.

The status page for the selected content server instance is displayed.

5. In the option list for the server instance, click the **Component Manager** link.

The Component Manager page is displayed.

6. Click the **Browse** button next to the **Install New Component** field.
7. Navigate to the appropriate Dynamic Converter component zip file (in the *component* directory of the software distribution media), select it, and close the file selection dialog.
8. Click **Install**. An overview page is displayed providing a list of the items that will be installed.
9. Click **Continue**. All required files are now uploaded and installed.




**Note:** The upload may take a long time, especially when installing onto a network drive, and there is no indication of progress. Perform the upload on a browser running on the same machine as the content server.

After all files have been copied, a message is displayed stating that the components were uploaded and installed successfully.



10. Click the link to enable the component and restart the server.

The content server status page is displayed.

11. Click the restart icon () to restart the content server instance.

12. For Unix systems, verify that the Display and Font Path settings are correctly set on the Configuration page.



**Note:** Close all browser windows before logging into the content server again.

13. To verify the installation, log into Content Server as a system administrator, and go to the Administration Applets page. This page should include a **Dynamic Converter Admin** link.

This link takes you to the Dynamic Converter administration page, where you can create template selection rules, create and edit conversion templates, and configure Dynamic Converter.

Once Dynamic Converter is installed and set up successfully and the template selection rules are applied to your content items, the search results pages and the content information pages will display an HTML link for the dynamically converted content item. You can then click this link to view the converted file according to the template(s) assigned to it.

## POST-INSTALLATION STEPS AND CONSIDERATIONS

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After installing and enabling the Dynamic Converter component, please note the following considerations and tasks:

- ❖ [Field Length Issue With IBM DB2](#) (page 2-8)
- ❖ [Motif Library Compatibility on Linux](#) (page 2-8)
- ❖ [Checking in Sample Templates](#) (page 2-9)
- ❖ [Editing a Template](#) (page 2-10)
- ❖ [Administration Tasks](#) (page 2-11)

## Field Length Issue With IBM DB2

---

A problem can arise when running Dynamic Converter with IBM's DB2 database. Once the Dynamic Converter component is installed, while using DB2, the content server may fail to restart, citing the following error:

```
Unable to alter table '[IBM][CLI Driver][DB2/NT] SQL0107N The name
"PK_HTMLCONVERSIONSTEMP" is too long. The maximum length is "18".
SQLSTATE=42622'.
```

If this error occurs, you will need to create a new content server configuration variable:

1. Open a new browser window and log into Content Server as a system administrator (with the "sysmanager" role).
2. Go to the Administration Applets page and click the **Admin Server** link.
3. On the Content Admin Server page, click the button of the content server instance that Dynamic Converter is running on.

The status page for the selected content server instance is displayed.

4. In the option list for the server instance, click the **General Configuration** link.

The General Configuration page is displayed.

5. Scroll to the bottom of the page, and add the following line to the Additional Configuration Variables table:

```
UseDatabaseShortIndexName=true
```

6. Click **Save**.
7. Restart the content server.

## Motif Library Compatibility on Linux

---

On some Linux installations, the Motif library that is installed is not compatible with the library used to build Dynamic Converter's conversion technology. Without the proper Motif library, you will experience problems converting graphics. Zero-byte graphics files may then be generated.

You can check the Motif library used by your Linux system by going to the following directory:

```
shared/os/linux/lib/htmlexport
```

and running the command:

```
ldd libsc_du.so
```

This will print a list of the library dependencies. If the line for the Motif library looks like this:

```
libXm.so.1 => not found
```

then your system may not have a compatible Motif library installed.

In that event, you should install a compatible Motif library and reinstall Dynamic Converter. The installation disks for your particular Linux platform may have the proper library. If not, instructions for downloading a binary rpm can be found at:

<http://www.lesstif.org/download.html>

The Motif library version used by Content Server when building and testing is:

```
x86 Linux - lesstif v. 0.89.0
```

## Checking in Sample Templates

---

Dynamic Converter includes a number of sample template files, which must be checked into the content server before you can apply them to your content items. After enabling the new Dynamic Converter component, check these templates into your content server so that you can quickly and easily access them.



**Note:** If you checked the sample templates into the content server during the installation of a previous version of Dynamic Converter, it is not necessary to do it again.

When you check them in, make sure that you choose **GUI Template** as the template type on the Dynamic Converter template check-in form. This way, they will become a part of the available templates list, and they will be recognized by the Template Editor.

The sample templates are located in the Dynamic Converter samples directory (*[CS\_Dir]/custom/DynamicConverter/Samples/*, where *[CS\_Dir]* is the Content Server instance installation directory). There are different types of templates, and each must be checked in as the correct type:

- ❖ **GUI templates**—These templates, which are located in the *gui\_templates* subdirectory, provide a visual representation and changes to your converted documents. You can use the Template Editor to make changes in these templates and view them in real time. GUI templates have the *.ttp* file extension.
- ❖ **Script templates**—These template, which are located in the *script\_templates* subdirectory, apply a set of scripted rules to your converted documents. Changing script templates requires a knowledge of the language that they were written in. Script templates have the *.hcst* file extension.

## Additional Considerations

Please note the following additional considerations with regard to Dynamic Converter templates:

- ❖ If you would like to see what the GUI templates look like before checking them into the content server, a screenshot of each is available in the Dynamic Converter Sample Templates document, which is included as a PDF file on the Dynamic Converter software distribution media.
- ❖ In addition to the template samples, two other samples are provided. The *gui\_layouts* subdirectory contains *Default\_layout.txt*, which is a layout template that wraps Content Server borders and navigation around your converted content; and *Snippet\_layout.txt*, which is a layout template that creates a simple piece of HTML from your converted content so that the content can be included in another web page. These templates must be checked into the content server as “Layout” templates. Lastly, the root directory contains *snippet\_demo.hcst*, a portal-style web page that illustrates the Idoc Script function (see the *Dynamic Converter Administration Guide* for more information).

## Editing a Template

Dynamic Converter includes a Template Editor, which offers a graphical user interface (GUI) for the numerous settings available in a GUI template. You download the Template Editor the first time you click **Edit Template** on the Dynamic Converter – Edit Templates page or the Template Selection Rules page.

Figure 2-2 Edit Templates page

The screenshot shows a web interface titled "Dynamic Converter - Edit Templates". It features a section titled "Template to Edit" with a light green background. Below this section, there is a prompt: "Select the template that you would like to edit." There are two input fields: "Template" and "Available Templates". The "Available Templates" field is a dropdown menu. Below these fields is an "Edit Template" button. At the bottom of the page is a "Quick Help" button.



**Note:** To download and install the Template Editor, you must be running Microsoft Windows with Internet Explorer 4.0 or higher.

An installation dialog box is displayed. Once you click “Yes,” the Template Editor is downloaded onto your workstation. The Template Editor software is installed in *C:\Program Files\Oracle\Universal Content Management\Template Editor\10gR3*.

After initial installation, you will be able to quickly and easily open the Template Editor by clicking the **Edit Template** button.



**Note:** See page A-2 for information about uninstalling the Template Editor.

## Administration Tasks

---

After installing Dynamic Converter, you should proceed with configuring and setting up the dynamic conversion environment. See the *Dynamic Converter Administration Guide* for further details.





# UNINSTALLING DYNAMIC CONVERTER

This section covers the following topics:

- ❖ [Uninstalling the Dynamic Converter Component](#) (page A-1)
- ❖ [Uninstalling the Template Editor](#) (page A-2)

## UNINSTALLING THE DYNAMIC CONVERTER COMPONENT

---

To uninstall the Dynamic Converter component, complete the following steps:

1. Open a new browser window and log into Content Server as a system administrator.
2. Go to the Administration Applets page and click the **Admin Server** link.
3. On the Content Admin Server page, click the button of the content server instance that you want to uninstall the Dynamic Converter components from.

The status page for the content server instance is displayed.

4. In the option list for the server instance, click the **Component Manager** link.

The Component Manager page is displayed.

5. Disable all Dynamic Converter components that you want to uninstall
  - a. Select each component in the Enabled Components list.
  - b. Click the **Disable** button to move it to the Disabled Components list.

6. Restart the content server.
7. Go back to the Component Manager page.
8. Select a disabled component to be uninstalled in the Uninstall Component dropdown list, and click **Uninstall**.
9. A prompt is displayed asking you to confirm the uninstallation process of the selected component. Click **OK** to confirm.
10. After the component has been uninstalled, a message is displayed stating that the component was uninstalled successfully.  
  
Click on the link to return to Component Manager.
11. Repeat steps 8 through 10 for each disabled component to be uninstalled.
12. After uninstalling all components, restart the content server.



**Note:** Uninstalling a component means that the content server no longer recognizes the component, but the component files are not deleted from the file system.

## UNINSTALLING THE TEMPLATE EDITOR

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### *Microsoft Windows*

If you need to uninstall the Template Editor, you can do so from the Add or Remove Programs dialog box in Control Panel. Make sure to close Internet Explorer before attempting to remove the program. If Internet Explorer is open at the time, not all Template Editor files will be removed successfully.



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\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.3, July 18th, 2005

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