Endeca® Content Acquisition System

Installation Guide

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Contents

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Preface

The Oracle Endeca Commerce solution enables your company to deliver a personalized, consistent customer buying experience across all channels — online, in-store, mobile, or social. Whenever and wherever customers engage with your business, the Oracle Endeca Commerce solution delivers, analyzes, and targets just the right content to just the right customer to encourage clicks and drive business results.

Oracle Endeca Commerce is the most effective way for your customers to dynamically explore your storefront and find relevant and desired items quickly. An industry-leading faceted search and Guided Navigation solution, Oracle Endeca Commerce enables businesses to help guide and influence customers in each step of their search experience. At the core of Oracle Endeca Commerce is the MDEX Engine™, a hybrid search-analytical database specifically designed for high-performance exploration and discovery. The Endeca Content Acquisition System provides a set of extensible mechanisms to bring both structured data and unstructured content into the MDEX Engine from a variety of source systems. Endeca Assembler dynamically assembles content from any resource and seamlessly combines it with results from the MDEX Engine.

Oracle Endeca Experience Manager is a single, flexible solution that enables you to create, deliver, and manage content-rich, cross-channel customer experiences. It also enables non-technical business users to deliver targeted, user-centric online experiences in a scalable way — creating always-relevant customer interactions that increase conversion rates and accelerate cross-channel sales. Non-technical users can control how, where, when, and what type of content is presented in response to any search, category selection, or facet refinement.

These components — along with additional modules for SEO, Social, and Mobile channel support — make up the core of Oracle Endeca Experience Manager, a customer experience management platform focused on delivering the most relevant, targeted, and optimized experience for every customer, at every step, across all customer touch points.

About this guide

This guide describes how to install the Content Acquisition System and set up CAS components after installation on Windows and UNIX.

Note: Unless otherwise indicated, whenever this document specifies UNIX, it applies to Linux and Solaris.

Who should use this guide

This guide is intended for application developers who are building applications using the Endeca CAS components and are responsible for installation tasks.

Conventions used in this guide

This guide uses the following typographical conventions:

Code examples, inline references to code elements, file names, and user input are set in `monospace` font. In the case of long lines of code, or when inline monospace text occurs at the end of a line, the following symbol is used to show that the content continues on to the next line: ¬

When copying and pasting such examples, ensure that any occurrences of the symbol and the corresponding line break are deleted and any remaining space is closed up.

Contacting Oracle Support

Oracle Support provides registered users with important information regarding Oracle Endeca software, implementation questions, product and solution help, as well as overall news and updates.

You can contact Oracle Support through Oracle's Support portal, My Oracle Support at *https://support.oracle.com*.

Chapter 1

Before you install

This section provides an overview of the Content Acquisition System, system requirements, and other information you need to know before installing.

Overview of the Content Acquisition System

The Endeca Content Acquisition System is a set of components that add, configure, and crawl data sources for use in an Endeca application. Data sources include file systems, Content Management System crawls, Web servers, and custom data sources. The Endeca Content Acquisition System crawls data sources, converts documents and files to Endeca records and processes them for use in an MDEX Engine.

Compatibility with Endeca components

To determine the compatibility of the Content Acquisition System with other components in Oracle Endeca Commerce, see *Oracle Endeca Commerce Supported Environments and Compatibility* available on the Oracle Technology Network.

Prerequisite Endeca components

CAS Console depends on Oracle Endeca Workbench. Tools and Frameworks, which includes Workbench, must be installed on the machine where you install the CAS Console.

See the *Oracle Endeca Commerce Supported Environments and Compatibility* for version compatibility.

System requirements

See *Oracle Endeca Commerce Supported Environments and Compatibility* on the Oracle Technology Network for information on supported operating systems and Web browsers. Hard disk capacity must be sufficient to store the records written to the Record Store or to record output files. Please contact your Oracle representative if you need more information on hardware sizing.

Minimum hardware requirements:

- x64 processor, minimum 1.8 GHz
- 2 GB of RAM
- At least an 80 GB hard drive, depending on the size of your application data set

CAS Document Conversion Module

In CAS 3.0.1 and later, the CAS Document Conversion Module is installed and enabled as part of the CAS installation.

Note: The CAS Document Conversion Module is not supported on SUSE Enterprise Linux 11.

For a list of supported file formats, see "Appendix B File Formats Supported by the CAS Document Conversion Module" in the *Endeca CAS Developer's Guide*.

Licensing for CMS connectors

In CAS 3.0.1 and later, all CMS connectors are installed and enabled as part of the CAS installation.

Supported CMS connectors

To run a crawl against a specific CMS data source, the Content Acquisition System requires a CMS connector.

The Content Acquisition System provides the following CMS connectors:

- Documentum Content Server
- Documentum eRoom
- FileNet Document and Image Services
- FileNet P8
- Interwoven TeamSite
- JSR-170 compliant repositories
- Lotus Notes (Domino)
- Microsoft SharePoint (supports 2003 and 2007 repositories)
- OpenText LiveLink

For information about configuring each of the CMS connectors, see the *CAS Developer's Guide*.

Recommended reading

Before installing, Oracle recommends that you read the following documents for important information about the release.

Getting Started Guide

The *Oracle Endeca Commerce Getting Started Guide* gives an overview of Oracle Endeca components and includes information about configuration scenarios. After installing all the components in your

deployment, read this guide for information on verifying your installation. You can download the *Oracle Endeca Commerce Getting Started Guide* from the Oracle Technology Network.

Release Notes

Refer to the release notes for information about new features, changed features, and bug fixes for this release. The release notes (`README.txt`) are part of the CAS documentation download. After installation, release notes are also available in the following location:

- Windows: `CAS\<version>`
- UNIX: `CAS/<version>`

Migration Guide

Refer to the *Endeca CAS Migration Guide* for information about migrating your implementation from a previous version of Endeca software. You can download the *Endeca CAS Migration Guide* from the Oracle Technology Network.

Chapter 2

Installing the Content Acquisition System

This section contains installation procedures and describes the contents of the installation directory.

Installing on Windows

This section provides instructions for installing the Endeca Content Acquisition System on Windows.

Creating a user for the Endeca services on Windows

You must run the Endeca services as a specified user, for which you can control permissions.

You are asked to provide information about this Endeca services user during the installation process. Oracle recommends that you create a user account called endeca that has the proper file and directory permissions to access all necessary files for your application, and that you set up your Endeca Tools Service to run under this account. However, you can use any user that you prefer, as long as it meets these requirements.

To create the user endeca:

1. Ensure that you have administrator privileges on the local machine.
2. From the Windows Control Panel, select **Computer Management** > **Administrative Tools**.
3. In the tree pane of the Computer Management window, select **System Tools** > **Local Users and Groups**.
4. Right-click **Users** and select **New User**.
5. In the **New User** dialog box, do the following:
   a) Enter endeca for both the User name and the Full name.
   b) Optionally, enter a description.
   c) Set a password for user endeca.

      

      Note: The user must have a non-blank password, because the installer will not accept a blank password for the services user.

   d) Uncheck **User must change password at next logon**.
6. Click **Create** to create the new user, and then **Close** to exit the dialog box.
7. Close the Computer Management window, but do not exit Administrative Tools.

8. From Administrative Tools, do the following:
   a) Open **Local Security Policy**.
   b) In the Local Security Settings window, select **Local Policies** > **User Rights Assignments**.
   c) From the list of policies on the right, open **Log on as a Service**.
   d) Add user `endeca` to the list of users that can register a process as a service.
   e) Close the dialog box and exit Administrative Tools.

Installing CAS on Windows

Before installing, ensure that you have met the following pre-requisites:

- Ensure you have administrator privileges on the local machine.
- Close all running programs and, if you previously had CAS installed on this machine, refer to the "Upgrading" section of the *Endeca CAS Migration Guide* for information on migration procedures.
- If you are installing CAS Console, the `ENDECA_TOOLS_ROOT` and `ENDECA_TOOLS_CONF` environment variables must be set on the machine running Oracle Endeca Tools and Frameworks before running the CAS installation program. Setting these variables happens automatically when you restart the machine that has Oracle Endeca Tools and Frameworks installed.

Note: Even if you are installing on a drive other than the C drive, you should have approximately 400 MB of space available on the system drive before installing. This space is needed temporarily for the installer files that are unpacked on the C drive during the installation regardless of the drive you specified for your installation. The space is cleared after the installation process completes.

To install CAS on Windows:

1. In your local environment, locate the Endeca CAS software that you downloaded from the Oracle Software Delivery Cloud.
2. Double-click the installer file `cas-`*`version`*`_x86_64pc-win32.exe` to start the wizard.
3. Click **Next** to begin the installation process.
4. In the **Important Information** screen, read the copyright and then click **Next**.
5. In the **Custom Setup** screen, select the program features you want to install and then click **Next**.

Note: All installation items are selected by default. The remainder of this guide assumes that you selected all the options listed:

- Content Acquisition System
- CAS Console as a Workbench Extension
- CAS Deployment Template Integration

6. In the **Destination Folder** screen, select an installation location or accept the default location of `C:\Endeca\CAS` and then click **Next**.
7. In the **Endeca CAS Service Information** screen, specify the user name, password, and domain information for the user who will run the CAS Service and then click **Next**. (This is typically the `endeca` user you created in the previous procedure.)
8. In the **CAS Server Information** screen, enter the CAS Server port and CAS Server shutdown port, or accept the default values of `8500` and `8506`.
9. In the **Completing the Setup Wizard** screen, click **Next**.

The CAS Service starts automatically after installation.

Related Links

Installing CAS silently on Windows on page 15
The silent installer is useful if you want to add the CAS installation to an install script, or push out the installation on multiple machines. The silent installer is not interactive.

Updating the Deployment Template to use the WSDL client stubs and the CAS Deployment Template component on page 16
This task is optional. It may be necessary if you did not integrate the CAS Deployment Template component into the Deployment Template during the installation process and then later found that you need the Deployment Template to manage crawling operations.

Creating a user for the Endeca services on Windows on page 13
You must run the Endeca services as a specified user, for which you can control permissions.

Installing CAS silently on Windows

The silent installer is useful if you want to add the CAS installation to an install script, or push out the installation on multiple machines. The silent installer is not interactive.

The syntax to run the silent installation is the following:

```
start /wait cas-<version>-arch-OS.exe /s
/l=full path to the installer log file\installer.log
[CASHOST=localhost] [CASPORT=8500] [CASSTOPPORT=8506]
[TARGETDIR=C:\Endeca\CAS] [CASSELECTED=TRUE] [CONSOLESELECTED=TRUE]
[DTSELECTED=TRUE] USERNAME=endeca PASSWORD=endecapwd DOMAINNAME=domain
```

where the options have the following values:

Option	Description
cas-<*version*>-*arch*-*OS*.exe	Required. Specifies the installation program to run in silent mode.
`/s`	Required. Specifies that the CAS installer runs in silent mode.
`/l`	Optional. The logging option (`/l=`) provides useful information from silent installer failures. The specified directory must be a full path.
`CASHOST`	Optional. Specifies the host name of the machine where you want to install and run CAS. If the omitted, the default value is `localhost`.
`CASPORT`	Optional. Specifies the port on which CAS Service is listening. If the omitted, the default value is `8500`.
`CASSTOPPORT`	Optional. Specifies the port to stop the CAS Service. If the omitted, the default value is `8506`.
`TARGETDIR`	Optional. You can replace `C:\Endeca` with the location to which you want to install. However, if you set the install location to a drive that does not exist, the silent installation fails with a non-zero status code.

Option	Description
CASSELECTED	Optional. Specifies whether to install CAS without the CAS Console and the Deployment Template integration. If omitted, the default value is TRUE.
CONSOLESELECTED	Optional. Specifies whether to install CAS Console as an extension to Oracle Endeca Workbench. If you do not want to install CAS Console specify FALSE for this option. If omitted, the default value is TRUE.
DTSELECTED	Optional. Specifies whether to integrate the CAS component into the Deployment Template. Set this to FALSE if the CAS environment does not require the Deployment Template to manage crawling operations. If omitted, the default value is TRUE.
USERNAME	Required. Species the user running the Endeca CAS Service. This is typically the specified as the endeca user.
PASSWORD	Required. Specifies the corresponding password for the USERNAME option.
DOMAINNAME	Required. Specifies the domain of the USERNAME option.

To launch the silent installer:

1. From a command prompt, navigate to the directory where you downloaded the installer.
2. Issue the `start` command and at a minimum specify the required options described above.

Example

```
start /wait F:\endeca-installers\cas-<version>-x86_64pc-win32.exe  /s
/l=F:\endeca-installers\logs\cas-install.log
CASHOST=hostname.us.oracle.com  TARGETDIR=F:\endeca\CAS CONSOLESELECTED=TRUE
 DTSELECTED=TRUE USERNAME=JSMITH
PASSWORD=endecapwd DOMAINNAME=eastcoast
```

Updating the Deployment Template to use the WSDL client stubs and the CAS Deployment Template component

This task is optional. It may be necessary if you did not integrate the CAS Deployment Template component into the Deployment Template during the installation process and then later found that you need the Deployment Template to manage crawling operations.

To update the Deployment Template:

Copy the new CAS Deployment Template component into the Deployment Template:

- On Windows, copy `<install path>\CAS\<version>\lib\cas-dt\casStubs.jar` to `<install path>\ToolsAndFrameworks\<version>\deployment_template\app-templates\common\config\lib\java` and replace the existing JAR file.
- On UNIX, copy `<install path>/CAS/<version>/lib/cas-dt/casStubs.jar` to `<install`

path>/ToolsAndFrameworks/<version>/deployment_template/app-templates/common/config/lib/java.

Both the WSDL client stubs and the CAS Deployment Template component (the ContentAcquisitionServerComponent class) are packaged in casStubs.jar.

For details on upgrading applications deployed for a previous version of CAS, see the *Endeca CAS Migration Guide*.

Installing on UNIX

This section provides instructions for installing the Endeca Content Acquisition System on UNIX.

Installing CAS on UNIX

The Endeca software is distributed as a self-extracting tar file and install script. The script is named cas-*version_arch-OS*.sh. CAS can be installed to any location, but this procedure assumes CAS will be installed into /usr/local. CAS unpacks to approximately 400 MB. Because multiple versions may be stored, a destination in a large partition is recommended.

To install CAS on UNIX:

1. Locate the CAS installation file that you downloaded from the Oracle Software Delivery Cloud. This procedure assumes the location is in a downloads directory.
2. Run the Endeca installation script with the following command:

   ```
   downloads/cas-version_arch-OS.sh --target /usr/local
   [--skip_console_installation] [--skip_dt_integration] [--endeca_tools_root
    full path to the Endeca Tools
   root directory]
   [--endeca_tools_conf full path to the Endeca Tools /conf directory]
   ```

   If you use the --skip_console_installation flag, the installer does not attempt to install CAS Console as an extension to Oracle Endeca Workbench. Use this flag if Workbench runs on a different server than CAS. This procedure assumes you are running the installation script without the --skip_console_installation flag.

   If you use the --skip_dt_integration flag, the installer does not integrate the CAS component into the Deployment Template. Use this flag if the CAS environment does not require the Deployment Template to manage crawling operations. This procedure assumes you are running the installation script without the --skip_dt_integration flag.

3. Enter the CAS Service port.
4. Enter the CAS Service Shutdown port.
5. If ENDECA_TOOLS_ROOT or ENDECA_TOOLS_CONF is not set in the environment, the installer prompts you for these values.

   If running the installation script with the --skip_console_installation flag, the installer does not prompt for these values.

6. Enter the fully qualified CAS Server host name.

   If running the installation script with the --skip_console_installation flag, the installer does not prompt for a host.

Following installation:

- To start the CAS Service, navigate to `/usr/local/endeca/CAS/<version>/bin` and run the following script: `cas-service.sh`
- If you chose to install the CAS Console, you must restart the Endeca Tools Service. See the *Oracle Endeca Tools and Frameworks Installation Guide*.

Related Links

Installing CAS silently on UNIX on page 19
The silent installer is useful if you want to add the CAS installation to your own install script, or push out the installation on multiple machines.

Updating the Deployment Template to use the WSDL client stubs and the CAS Deployment Template component on page 16
This task is optional. It may be necessary if you did not integrate the CAS Deployment Template component into the Deployment Template during the installation process and then later found that you need the Deployment Template to manage crawling operations.

Adding the Endeca CAS service to inittab on UNIX

In a UNIX development environment, the Endeca CAS Service can be started from the command line. In a UNIX production environment, however, Oracle recommends starting it from `inittab`.

In UNIX you run the CAS Server using `cas-service.sh`, located in `usr/local/endeca/CAS/<version>/bin`. You can write a script that calls `cas-service.sh` and is referenced in `inittab`.

When writing your script, it is recommended as a best practice that you run the Endeca CAS Service as a user other than root.

This sample script (named `start_cas_service.sh`) sets the ENDECA_USER variable to the “endeca” user and then issues an `su` command to change to the “endeca” user:

```
#!/bin/sh
ENDECA_USER=endeca
CAS_ROOT=/usr/local/endeca/CAS/<version>
CAS_WORKSPACE=/usr/local/endeca/CAS/workspace

# change to user endeca
su $ENDECA_USER -c "cd $CAS_ROOT/bin; \
     $CAS_ROOT/bin/cas-service.sh >> $CAS_WORKSPACE/logs/cas-service-wrap¬
per.log 2>&1"
```

The `start_cas_service.sh` script is then referenced in `inittab` with an entry similar to this example:

```
ecas:2345:respawn:/usr/local/endeca/CAS/<version>/bin/start_cas_service.sh
```

When writing your startup script, keep in mind that it is server-specific, and therefore its details (such as paths and user names) depend on the configuration of your server.

Installing only the CAS Console on UNIX

Use the `configure_tools_and_frameworks_integration.sh` script to install only the CAS Console:

- If you installed CAS but did not install the CAS Console as a Workbench extension (using the `--skip_console_installation` flag).
- If you intend to install the CAS Console with more than one instance of Workbench
- If you intend to run the CAS Service on a separate machine from the one that hosts the CAS Console Workbench Extension

To install only the CAS Console on UNIX:

1. Stop Endeca CAS Service.
2. Open a command-line and issue the following:

```
/usr/local/endeca/CAS/<version>/bin/configure_tools_and_frameworks_inte¬
gration.sh --skip_dt_integration
[--endeca_tools_root full path to the Endeca Tools root directory]
[--endeca_tools_conf full path to the Endeca Tools /conf directory]
```

   This registers the CAS Console with the specified Endeca Workbench installation.

   

   Note: You may omit the flags for `--endeca_tools_root` and `--endeca_tools_conf` if these variables are already set as environment variables.

3. Start Endeca CAS Service.

Installing CAS silently on UNIX

The silent installer is useful if you want to add the CAS installation to your own install script, or push out the installation on multiple machines.

The silent installer is not interactive.

To run the silent installer:

1. Create a .txt file that contains rows to specify the response value for each prompt on its own line. The order of prompts in the installer is:

```
CAS port
CAS shutdown port
CAS host
```

   For example:

```
8500
8506
localhost
```

   

   Important: The silent installer does not prompt for `$ENDECA_TOOLS_ROOT` or `$ENDECA_TOOLS_CONF`, so if these variables are not set in the environment, or if you want to override what is set, you must use the `--endeca_tools_root` and `--endeca_tools_conf` flags when you run the silent installer (they must be specified after the `--silent` and `--target` flags).

2. From a command prompt, navigate to the location of the installer.
3. Run the install script with the `--silent` flag, the `--target` flag (which specifies the absolute path of the target installation directory), any optional arguments, and the response file as an input. For example:

- `./cas-version-arch-OS.sh --silent --target /usr/local < silent.txt`
- If `$ENDECA_TOOLS_ROOT` and `$ENDECA_TOOLS_CONF` are not set in the environment or you want to override their values, specify their respective flags:

```
./cas-version-arch-OS.sh --silent --target /usr/local --ende¬
ca_tools_root full
path to the Endeca Tools root directory --endeca_tools_conf /usr/lo¬
cal/endeca/workbench/2.1.2/conf
 < silent.txt
```

- To skip installation of the CAS Console, you must specify the `--skip_console_installation` flag:

```
./cas-version-arch-OS.sh --silent
--target /usr/local < silent.txt --skip_console_installation
```

- To skip CAS integration with the Deployment Template, you must specify the `--skip_dt_integration` flag:

```
./cas-version-arch-OS.sh --silent
--target /usr/local < silent.txt --skip_dt_integration
```

  Use this flag if the CAS environment does not require the Deployment Template to manage crawling operations.

Following installation:

- To start the CAS Service, navigate to `CAS/<version>/bin` and run the following command: `cas-service.sh`
- If you chose to install the CAS Console, you must restart the Endeca Tools Service. See the *Oracle Endeca Workbench Installation Guide*.

Integrating CAS with the Deployment Template on UNIX

Use the `configure_tools_and_frameworks_integration.sh` script to integrate the CAS component into the Deployment Template. This may be necessary if you installed CAS but did not integrate the CAS component into the Deployment Template and then later found that you need the Deployment Template to manage crawling operations.

To integrate CAS with the Deployment Template on UNIX:

1. Stop Endeca CAS Service.
2. Open a command-line and issue the following:

```
/usr/local/endeca/CAS/<version>/bin/configure_tools_and_frameworks_inte¬
gration.sh --skip_console_integration
[--endeca_tools_root full path to the Endeca Tools root directory]
[--endeca_tools_conf full path to the Endeca Tools /conf directory]
```

Note: You may omit the flags for `--endeca_tools_root` and `--endeca_tools_conf` if these variables are already set as environment variables.

3. Start Endeca CAS Service.

Installing a plug-in into CAS

After receiving a plug-in (a JAR or set of JAR files) from a plug-in developer, a CAS application developer installs the plug-in into CAS.

The Content Acquisition System detects each plug-in and validates the extensions within it by checking the uniqueness of extension IDs and by checking for the presence of an annotation of either `@CasDataSource` or `@CasManipulator` for each extension.

To install a plug-in into CAS:

1. Stop Endeca CAS Service.
2. Navigate to `<install path>\CAS\<version>\lib\cas-server-plugins` and create a *`plugin-name`* subdirectory for each plug-in.
   For example: `CAS\<version>\lib\cas-server-plugins\JDBCDataSourceExt`
3. Copy the plug-in JAR or JARs, and any dependent JAR files, to `<install path>CAS\<version>\lib\cas-server-plugins\`*`plugin-name`* .
4. Repeat the steps above as necessary for multiple plug-ins.
5. Start Endeca CAS Service.

You can confirm that an extension is installed by runing the `listModules` task of the CAS Server Command-line Utility and specifying a `moduleType` of either `SOURCE` or `MANIPULATOR`. The task returns the installed modules. For example, this task shows that a custom data source named `Sample Data Source for testing` is installed:

```
C:\Endeca\CAS\<version>\bin>cas-cmd listModules -t SOURCE
Sample Data Source
 *Id: Sample Data Source
 *Type: SOURCE
 *Description: Sample Data Source for testing

File System
 *Id: File System
 *Type: SOURCE
 *Description: No description available for File System
 *Capabilities:
   *Binary Content Accessible via FileSystem
   *Data Source Filter
   *Has Binary Content
   *Expand Archives
```

Related Links

Installing on Windows on page 13
This section provides instructions for installing the Endeca Content Acquisition System on Windows.

Installing on UNIX on page 17
This section provides instructions for installing the Endeca Content Acquisition System on UNIX.

Web Crawler installation on page 22
The Endeca Web Crawler is installed as part of the CAS installation.

Package contents and directory structure on page 22
The `CAS` directory is the root directory for the Content Acquisition System.

About changing the role used for the CAS Console extension on page 24

By default, only users with administrative rights can view the CAS Console extension in Oracle Workbench. However, you can also make this extension visible to non-administrative users.

Web Crawler installation

The Endeca Web Crawler is installed as part of the CAS installation.

The Web Crawler startup script is in `<install path>\CAS\<version>\bin` (and in the equivalent path on UNIX). The Web Crawler configuration files are in `<install path>\CAS\conf\web` (and in the equivalent path on UNIX). See the *Endeca Web Crawler Guide* for details and usage.

Package contents and directory structure

The `CAS` directory is the root directory for the Content Acquisition System.

After installing the Content Acquisition System, you see this directory structure:

```
CAS
   <version>
         bin
         ...
   workspace
```

The contents of the `CAS` directory are described here in detail.

Directory	Contents
version\bin	• Scripts to start the CAS Service (`cas-service.sh` for UNIX and `cas-service.bat` for Windows). • Scripts to run the CAS Server Command-line Utility (`cas-cmd.sh` for UNIX and `cas-cmd.bat` for Windows). • Scripts to run the Component Instance Manager Command-line Utility (`component-manager-cmd.sh` for UNIX and `component-manager-cmd.bat` for Windows). • Scripts to run the Record Store Command-line Utility (`recordstore-cmd.sh` and `recordstore-cmd.bat`). • Scripts to run the Web Crawler (`web-crawler.sh` for UNIX systems and `web-crawler.bat` for Windows). • Scripts to shut down the CAS Service (`cas-service-shutdown.sh` for UNIX and `cas-service-shutdown.bat` for Windows). • The executable that runs the CAS Service as a Windows service (`cas-service-wrapper.exe`). • Script to install CAS Console on UNIX (`configure_tools_and_frameworks_integration.sh`)
version\cms	Server-side files for the FileNet Document and Image Services connector and server-side files for the SharePoint Object Model connector.

Directory	Contents
version\console	• The casconsole.war file, which is the CAS Console application. • The casconsole.xml file, which is the context file for the CAS Console. • The casconsole.properties file, which is the configuration file for the CAS Console. These files are copied to the Endeca Workbench installation and used from that location.
version\doc	• The reference documentation (Javadoc) for the CAS Server, the Component Instance Manager, the Record Store, the CAS Extension API, the CAS Deployment Template Component, and the Web Crawler. • The *Endeca Licensing Guide*.
version\doc\wsdl	The Web Service (WSDL) files for the CAS Server, the Component Instance Manager, and the Record Store.
version\java	The JDK used to run the CAS components (except CAS Console, which runs in the Endeca Tools Service).
version\lib	• Libraries for the CAS command-line utilities including: the CAS Server utility, the Component Instance Manager utility, the Record Store utility. • Libraries for the CAS APIs including: the CAS Server API, the Component Instance Manager API, the Record Store API, and the CAS Extension API.
version\lib\cas-dt	CAS WSDL client stub files for the Deployment Template.
version\lib\cas-server-plugins	Libraries for CAS plug-ins including CMS connectors and custom extensions (if applicable).
version\lib\oit-sx	The CAS Document Conversion Module libraries.
version\lib\recordstore-forge-adapter	The library for the Forge Record Store adapter.
version\lib\web-crawler	The Web Crawler libraries.
version\sample	Directories for the sample applications and sample extensions. The sample applications are documented in the *CAS Developer's Guide* and also in the *CAS Extension API Guide*.
version\webapps	The root.war file, which is the CAS Server and Component Instance Manager applications.
version\workspace_template	The template for the workspace directory that contains configuration files.
workspace	The working directory for the CAS Server and the Web Crawler.

Directory	Contents
workspace\conf	• The commandline.properties file, which contains the CAS Service settings necessary for the CAS command-line utilities to run. • Three logging configuration files (cas-service.log4j.properties for the CAS Service, recordstore-cmd.log4j.properties for the Record Store, and cas-cmd.log4j.properties for the Command-line Utility). • The Jetty configuration files.
workspace\conf\web-crawler\default	The default configuration files for the Web Crawler, including the log4j.properties logging configuration file.
workspace\conf\web-crawler\non-polite-crawl	Sample crawl configuration files for non-polite crawls. As with the polite version, the settings in these files will override the default settings.
workspace\conf\ web-crawler\polite-crawl	Sample crawl configuration files for polite crawls. The settings in site.xml will override the same property settings in the default.xml file, while the crawl-urlfilter.txt file will also override the default version of the file.
workspace\logs	The cas-service.log file, which contains the CAS Service log output, and includes log messages from all crawls managed by the CAS Server.
workspace\output	Default destination directory for the crawl output from the Web Crawler. The output directory is not present upon installation. It is created when the Web Crawler writes to output records for a crawl.
workspace\state	State files for the CAS Service components. State files can include Record Store instances, state directories for data source extension information, and state directories for manipulator extension information.

Note: There is no logs directory for the Web Crawler, because by default the Web Crawler sends its standard output to the console. However, you can modify the log4j.properties file to send the output to a file.

About changing the role used for the CAS Console extension

By default, only users with administrative rights can view the CAS Console extension in Oracle Workbench. However, you can also make this extension visible to non-administrative users.

See the *Oracle Endeca Workbench Administrator's Guide* for details on changing the visibility of the CAS Console extension for different user roles.

Note: If you change a user role in Workbench, you must manually remove the CAS Console extension if you choose to unregister it.

Related Links

Uninstalling CAS Console if its extension configuration was changed on page 28

If you need to uninstall the CAS Console extension for Oracle Endeca Workbench and you have manually edited its extension configuration (for example to assign the extension to a role other than "admin"), you must manually uninstall the CAS Console as an Oracle Endeca Workbench extension.

Chapter 3

Uninstalling the Content Acquisition System

This section contains the procedures for uninstalling the Content Acquisition System.

Uninstalling CAS on Windows

Follow these steps to uninstall the Content Acquisition System from your Windows machine.

The installer creates a timestamped backup of your workspace prior to uninstalling the Content Acquisition System

To uninstall the Content Acquisition System from a Windows machine:

1. From the Windows Control Panel, select **Add or Remove Programs**.
2. Select the **Endeca Content Acquisition System** from the list of installed software.
3. Click **Remove**.

Uninstalling CAS Console on UNIX

Follow this procedure to remove the CAS Console from Oracle Endeca Workbench without uninstalling the Content Acquisition System.

To remove the CAS Console from Oracle Endeca Workbench:

1. Open a command-line prompt and run the following command:
   ```
   /endeca/CAS/<version>/bin/configure_tools_and_frameworks_integration.sh
   --uninstall_console --uninstall_dt_integration
   ```
2. If you do not have `ENDECA_TOOLS_ROOT` and `ENDECA_TOOLS_CONF` set in the environment, do one of the following:
   - Enter the value for each at the prompt.
   - Run the `/endeca/CAS/<version>/bin/configure_tools_and_frameworks_integration.sh --uninstall_console` script with the flags `--endeca_tools_root` *`full path to the Endeca Tools root directory`* `--endeca_tools_conf` *`full path to the Endeca Tools /conf directory`*
3. Restart the Endeca Tools Service

Uninstalling CAS on UNIX

Follow these steps to uninstall the Content Acquisition System from a UNIX machine.

Before you begin the uninstall process, back up any files that you want to retain from the CAS directory.

You must uninstall CAS Console for Oracle Endeca Workbench prior to uninstalling the CAS.

To uninstall the CAS from a UNIX machine:

1. Shutdown CAS Service by navigating to `/usr/local/endeca/CAS/<version>/bin` and running the following command: `cas-service-shutdown.sh`.
2. In a command prompt, issue an `rm` command as in this example:
   `rm -rf endeca/CAS/<version>`

Uninstalling a plug-in from CAS

Follow these steps to uninstall a plug-in from the Content Acquisition System.

Before you begin the uninstall process, back up any plug-in JAR files that you want to retain from the `CAS\version\lib\cas-server-plugins` directory.

To uninstall a plug-in from the CAS:

1. Stop Endeca CAS Service.
2. Navigate to `<install path>\CAS\<version>\lib\cas-server-plugins`.
3. Delete the *`plugin-name/`* subdirectory for each plug-in.
   For example: `<install path>\CAS\<version>\lib\cas-server-plugins\JDBCDataSourceExt`
4. Repeat the steps above as necessary for multiple plug-ins.
5. Start Endeca CAS Service.

Uninstalling CAS Console if its extension configuration was changed

If you need to uninstall the CAS Console extension for Oracle Endeca Workbench and you have manually edited its extension configuration (for example to assign the extension to a role other than "admin"), you must manually uninstall the CAS Console as an Oracle Endeca Workbench extension.

To manually remove the CAS Console extension to Oracle Endeca Workbench:

1. Navigate to `%ENDECA_TOOLS_CONF%\conf` (on Windows) or `$ENDECA_TOOLS_CONF/conf` (on UNIX).
2. In `ws-extensions.xml`, remove the `<extension>` element with the id `"casconsole"`.
3. In `ws-mainMenu.xml`, remove the `<menuitem>` element with the id `"casconsole"`.
4. Delete `casconsole.properties`.
5. From `%ENDECA_TOOLS_CONF%\conf\Standalone` (on Windows) or `$ENDECA_TOOLS_CONF/conf/Standalone` (on UNIX), delete `casconsole.xml`.

6. From `%ENDECA_TOOLS_ROOT%\server\webapps` (on Windows) or `$ENDECA_TOOLS_ROOT/server/webapps` (on UNIX), delete `casconsole-`*`version`*`.war`.
7. Restart the Endeca Tools Service

Related Links

About changing the role used for the CAS Console extension on page 24

By default, only users with administrative rights can view the CAS Console extension in Oracle Workbench. However, you can also make this extension visible to non-administrative users.

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