

# **Content Server Enterprise Edition**

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Version: 5.5

## **Installing the CS Content Applications**

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## Section 1

# Before You Install the CSEE Content Applications

This section presents installation and upgrade guidelines and describes how to configure the LDAP and NT authentication plug-ins. It contains the following chapters:

- [Chapter 1, “Installation and Upgrade Guidelines”](#)
- [Chapter 2, “Configuring CSEE for LDAP or NT Authentication”](#)



## Chapter 1

# Installation and Upgrade Guidelines

This book provides information for FatWire installation services, FatWire partners, and customer system administrators who install or upgrade any or all of the CSEE content applications.

This document contains instructions for installing, upgrading, and configuring the following products:

- CS-Direct
- CS-Direct Advantage
- CS-Engage
- Analysis Connector
- Commerce Connector, including the Transact plug-ins

Before you begin, be sure that you read the guidelines contained in this chapter.

- [Installation Guidelines](#)
- [Authentication Plug-in Guidelines](#)
- [Upgrade Guidelines](#)

Definitions of the properties in the configuration files (.ini files) and information about administrative tasks that take place after installation and the post-installation configuration are located in the *CSEE Administrator's Guide*.

## Installation Guidelines

Please call FatWire Technical Support before installing the software in a licensed configuration, and note the following:

- To ensure a successful installation, please be sure that FatWire installation personnel or a qualified system integrator installs this licensed product on your system.
- Content Server must be installed before you can install the CSEE content applications. There are several Content Server installation guides, one for each application server that Content Server is supported on.
- The individual content applications also have dependencies that are enforced by the installation program: you cannot install CS-Direct Advantage without also installing CS-Direct; you cannot install CS-Engage without also installing CS-Direct Advantage.

## Authentication Plug-in Guidelines

If you plan to use either of the LDAP or NT authentication plug-ins, you must configure the plug-in **after** Content Server is installed and **before** you install the CSEE content applications.

Please be sure that FatWire installation personnel or a qualified system integrator configures your authentication plug-in.

## Upgrade Guidelines

Please call FatWire Technical Support before upgrading the software in a licensed configuration, and note the following:

- There is new upgrade guide, called *Upgrading to CSEE 5.0*, that you can obtain from the FatWire Support web site.
- FatWire Support also has upgrade utilities that help you with your upgrade process.
- You can upgrade to version 5.0 from either version 3.6.3 or version 4.0.3.
- To ensure a successful upgrade, please be sure that FatWire installation personnel or a qualified system integrator installs this licensed product on your system.
- Content Server must be upgraded before you can upgrade the CSEE content applications.
- If you are using one of the authentication plug-ins, upgrade Content Server first—but do **not** upgrade the CSEE content applications until you have verified the configuration of your plug-in against the settings specified for the plug-ins in this installation guide.

## Chapter 2

# Configuring CSEE for LDAP or NT Authentication

Content Server has a Directory Services API that enables your CSEE system to connect to external directory servers or user managers that contain authentication information, user information, and so on.

There are three user manager or directory server options available with Content Server:

- The native Content Server user manager, which uses the native Content Server user management tables to authenticate users; that is, the `SystemUsers` and `SystemUserAttrs` tables.
- The LDAP plug-in. When you use this option, user names and attributes are stored in your directory server rather than in the Content Server database.
- The NT 4.0 authentication plug-in, which uses NT 4.0 to authenticate users but stores the user information in the Content Server user management tables.

If you are installing and configuring a CSEE system that is to use LDAP, you must configure the LDAP plug-in **before** installing any of the CSEE content applications. You configure it by setting properties in the `futuretense.ini`, `dir.ini`, and `ldap.ini` property files.

For definitions of the properties in any of the CSEE property files, see the *CSEE Administrator's Guide*.

This chapter contains the following sections:

- [Overview of Content Server User Management](#)
- [Configuring the LDAP Plug-in](#)
- [Configuring the NT 4.0 Plug-in](#)

## Overview of Content Server User Management

There are several user management components that control access to a CSEE system: ACLs (access control lists), user accounts, user profiles, roles, and sites.

**Access Control Lists**, or **ACLs**, are named lists of database operation permissions such as read, write, create, and so on. Because just about everything in Content Server and the CSEE content applications is represented as a row in a database table, user management on any of your CSEE systems starts with ACLs.

When you are using LDAP to authenticate your users on any CSEE system, you create user accounts with LDAP rather than with the Content Server interface. You create LDAP user groups whose names exactly match the Content Server system default ACLs and any other ACLs that are necessary to implement the design of your system. However, you must still use the Content Server interface to create and assign roles to those users.

When you are using NT to authenticate your users on any CSEE system, you create user accounts with NT rather than with the Content Server interface. You create NT user groups whose names exactly match the Content Server system default ACLs and any other ACLs that are necessary to implement the design of your system. However, you must still use the Content Server interface to create user profiles and roles and to assign roles to those users.

Content Server assumes that a user who is a member of an LDAP or NT group has the Content Server ACL with the corresponding name. For example, a user who is a member of the xceladmin LDAP group has all the access rights granted by the xceladmin ACL.

### Basic Configuration Steps for the LDAP Plug-in

These are the basic steps that you follow to configure the LDAP plug-in:

1. Install Content Server.
2. Create LDAP user groups whose names exactly match the Content Server system default ACLs. For a list, see [“Required ACL Groups”](#) on page 14.
3. Be sure that the directory server stores a mail attribute (an attribute that stores an email address) for your users.
4. Use the LDAP interface to create users and to assign users to those groups. For a list of the Content Server and CSEE content applications users that you must create, see [“Required Users and Their ACL Group Memberships”](#) on page 15.
5. (Optional) If you plan to use LDAP attribute mapping for sites and roles, create the appropriate sites and roles in LDAP. See [“\(Optional\) Sites and Roles”](#) on page 15.
6. Configure the CSEE system to use the LDAP plug-in by setting the appropriate property values in the `futuretense.ini`, `dir.ini`, and `ldap.ini` property files.
7. Install the CSEE content applications.

The site and system administrators for the CSEE systems will then continue configuring their systems by creating the appropriate roles and sites and then enabling users that should have access to those sites.

Note that if you are retrofitting an existing CSEE system to use LDAP or are upgrading, there are variations in these basic steps.

## Basic Configuration Steps for the NT 4.0 Plug-in

These are the basic steps that you follow to configure the NT 4.0 plug-in:

1. Install Content Server.
2. Create NT user groups whose names exactly match the Content Server system default ACLs. For a list, see [“Required ACL Groups”](#) on page 14.
3. Use the NT interface to create users and to assign users to those groups. For a list of the Content Server and CSEE content applications users that you must create, see [“Required Users and Their ACL Group Memberships”](#) on page 15.
4. Configure the CSEE system to use the NT 4.0 plug-in by setting the appropriate property values in the `futuretense.ini` and `dir.ini` property files.
5. Install the CSEE content applications.

The site and system administrators for the CSEE systems will then continue configuring their systems by creating the appropriate user profiles, roles and sites and then enabling the users that should have access to those sites.

## Configuring the LDAP Plug-in

Before you can begin configuring the LDAP plug-in, do the following:

- For a CSEE installation, install Content Server first—but do **not** install the CSEE content applications.
- For a CSEE upgrade, upgrade Content Server first—but do **not** upgrade the CSEE content applications.

After Content Server is completely installed (or upgraded) and tested, complete the procedures in this section.

### Step 1: Create LDAP Groups and Users and, Optionally, Sites and Roles

Note the following requirements for the directory server’s DIT (Directory Information Tree):

- The LSC (Least Significant Component) of the DN (Distinguished Name) for a group entry must be `cn`.
- Group entries must have a `uniquemember` attribute.
- The LSC of the DN for a user entry must be `uid`.
- User entries must have a `mail` attribute.

After you have made sure that your directory meets this list of requirements, use the tools provided by your directory server to create groups, users, and group memberships. If you plan to use LDAP to manage your site and role names, you must create them in your directory server, as well.

You can create an **ldif** file that contains the user and group information, which you then import into your user directory. The actual method of importing the file varies for each directory, but the structure of the file is standardized among directory servers.

## Required ACL Groups

The following list presents the Content Server system default ACLs. You must create groups that exactly match these names:

### Note

Several of the system default ACLs were introduced in versions 4.0 and 5.0. If you are **upgrading**, be sure that you have groups that exactly match **all** of the ACLs in this list.

- Browser
- ContentEditor
- ContentReader
- ElementEditor
- ElementReader
- PageEditor
- PageReader
- RemoteClient
- SiteGod
- TableEditor
- TableReader
- UserEditor
- UserReader
- Visitor
- VisitorAdmin
- xceladmin
- xceleditor

If you are using web services, you must also create groups for the following ACLs:

- WSAdmin
- WSEditor
- WSUser

For information about the access privileges that these ACLs/groups grant, see the “User Management” chapter in the *CSEE Administrator’s Guide*.

## Required Users and Their ACL Group Memberships

Following is a list of the Content Server and CS-Direct system default users. You must create users with names that exactly match the Content Server names and make them members of the following groups:

User	Group Memberships
<i>ContentServer</i> (the user that is created during the installation of Content Server)	Browser, ContentEditor, ElementReader, ElementEditor, PageReader, PageEditor, SiteGod, TableEditor, TableReader, UserEditor, UserReader
DefaultReader	Browser, Visitor
admin	Browser, ElementEditor, PageEditor, RemoteClient, TableEditor, UserEditor, UserReader, Visitor, VisitorAdmin, xceladmin, xceleeditor

### Note

FatWire recommends that you do not install the sample sites on your CSEE management or delivery systems. However, if you install any of the sample sites, be sure that you create the appropriate sample site users.

To determine which group memberships to grant your additional system users (that is, the actual content providers who will be using this CSEE system), see the descriptions of the ACLs in the “User Management” chapter in the *CSEE Administrator’s Guide*.

Specific details will vary, depending on the structure of your local directory.

## (Optional) Sites and Roles

If you plan to use LDAP attribute-mapping and manage your site names and role names in your directory server, complete the following steps:

1. Create an organizational unit for sites.
2. Under the site unit, create an entry for each of your site names. Note that these names must exactly match the name of the site as you will enter it in the Content Server interface, including spaces, underscores, and so on.
3. For each site, create groups for each of the appropriate role names. Be sure to add the system default role named GeneralAdmin to each site.

When you assign any of the system default roles to your sites, be sure that the string exactly matches the names listed here:

- GeneralAdmin
- SiteAdmin
- WorkFlowAdmin

4. For each role group, add the appropriate user/members.

### Note

FatWire recommends that you do not install the sample sites on your CSEE management or delivery systems. However, if you install any of the sample sites, be sure that you create the appropriate site names and sample site roles.

## Example Idif Files

Following are example iPlanet Directory Server `ldif` files that reflect the users and groups for the sample sites. Note that Active Directory `ldif` files will vary from these sample files.

The first file creates both the system default users as well as the example users from the sample sites. The second file creates groups that match the system default ACLs and assigns them to the appropriate users.

### Idif Example 1 (iPlanet Directory Server): Users

```
1 version: 1
2
3 # entry-id: 1
4 dn: ou=people,dc=FatWire,dc=com
5 ou: People
6 objectClass: top
7 objectClass: organizationalunit
8 creatorsName: cn=directory manager
9 modifiersName: cn=directory manager
10 createTimestamp: 20021001153255Z
11 modifyTimestamp: 20021001153255Z
12 nsUniqueId: f2b52281-1dd111b2-80ce8bff-8cf3a98d
13
14 # entry-id: 3
15 dn: uid=DefaultReader,ou=people,dc=FatWire,dc=com
16 givenName: Default
17 sn: Reader
18 objectClass: top
19 objectClass: person
20 objectClass: organizationalPerson
21 objectClass: inetorgperson
22 uid: DefaultReader
23 cn: Default Reader
24 userPassword: {SSHA}UhFRHlAVSIA+RafcjtK/
    Yihz1jq4OrIXexNqaQ==
25 mail: reader@FatWire.com
26 creatorsName: cn=directory manager
27 modifiersName: cn=directory manager
28 createTimestamp: 20021001153259Z
29 modifyTimestamp: 20021001153259Z
30 nsUniqueId: f2b52283-1dd111b2-80ce8bff-8cf3a98d
31
32 # entry-id: 4
33 dn: uid=admin,ou=people,dc=FatWire,dc=com
```

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```
34 givenName: xcel
35 sn: admin
36 objectClass: top
37 objectClass: person
38 objectClass: organizationalPerson
39 objectClass: inetorgperson
40 uid: admin
41 cn: admin
42 userPassword: {SSHA}JbN/
zyGZORP4Wgl+pMvEjOu40bbpVPwMJ2wjUw==
43 mail: admin@FatWire.com
44 creatorsName: cn=directory manager
45 modifiersName: cn=directory manager
46 createTimestamp: 20021001153259Z
47 modifyTimestamp: 20021001153259Z
48 nsUniqueId: f2b52284-1dd111b2-80ce8bff-8cf3a98d
49
50 # entry-id: 5
51 dn: uid=editor,ou=people,dc=FatWire,dc=com
52 givenName: e
53 sn: ditor
54 objectClass: top
55 objectClass: person
56 objectClass: organizationalPerson
57 objectClass: inetorgperson
58 uid: editor
59 cn: e ditor
60 userPassword:
{SSHA}+nnnA5eMwzOHZXv2wssi7UV1ladaJ+gtzXbkGA==
61 mail: editor@FatWire.com
62 creatorsName: cn=directory manager
63 modifiersName: cn=directory manager
64 createTimestamp: 20021001153259Z
65 modifyTimestamp: 20021001153259Z
66 nsUniqueId: f2b52285-1dd111b2-80ce8bff-8cf3a98d
67
68 # entry-id: 6
69 dn: uid=user_author,ou=people,dc=FatWire,dc=com
70 givenName: user
71 sn: author
72 objectClass: top
73 objectClass: person
74 objectClass: organizationalPerson
75 objectClass: inetorgperson
76 uid: user_author
77 cn: user author
78 userPassword: {SSHA}ZUHls9BJq/
RZGwP7XqQb3t7OmeoRZboqcjAzZw==
79 mail: author@FatWire.com
80 creatorsName: cn=directory manager
81 modifiersName: cn=directory manager
82 createTimestamp: 20021001153259Z
```

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```
83 modifyTimestamp: 20021001153259Z
84 nsUniqueId: f2b52286-1dd111b2-80ce8bff-8cf3a98d
85
86 # entry-id: 7
87 dn: uid=user_editor,ou=people,dc=FatWire,dc=com
88 givenName: user
89 sn: editor
90 objectClass: top
91 objectClass: person
92 objectClass: organizationalPerson
93 objectClass: inetorgperson
94 uid: user_editor
95 cn: user editor
96 userPassword:
   {SSHA}mAGUJkOI0dzHLTzty6KIUe8ZhAzLEygin3ZVCg==
97 mail: user_editor@FatWire.com
98 creatorsName: cn=directory manager
99 modifiersName: cn=directory manager
100 createTimestamp: 20021001153259Z
101 modifyTimestamp: 20021001153259Z
102 nsUniqueId: f2b52287-1dd111b2-80ce8bff-8cf3a98d
103
104 # entry-id: 8
105 dn: uid=user_approver,ou=people,dc=FatWire,dc=com
106 givenName: user
107 sn: approver
108 objectClass: top
109 objectClass: person
110 objectClass: organizationalPerson
111 objectClass: inetorgperson
112 uid: user_approver
113 cn: user approver
114 userPassword:
   {SSHA}y9yvUTef78VQ3mHXoWvyuCsZDr8BXKN3uG18Cw==
115 mail: approver@FatWire.com
116 creatorsName: cn=directory manager
117 modifiersName: cn=directory manager
118 createTimestamp: 20021001153259Z
119 modifyTimestamp: 20021001153259Z
120 nsUniqueId: f2b52288-1dd111b2-80ce8bff-8cf3a98d
121
122 # entry-id: 9
123 dn: uid=user_checker,ou=people,dc=FatWire,dc=com
124 givenName: user
125 sn: checker
126 objectClass: top
127 objectClass: person
128 objectClass: organizationalPerson
129 objectClass: inetorgperson
130 uid: user_checker
131 cn: user checker
```

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```
132 userPassword: {SSHA}G1KCrgHMdXdfpr/
    fRwJf2FcUU+SdXGNCHnGvdA==
133 mail: checker@FatWire.com
134 creatorsName: cn=directory manager
135 modifiersName: cn=directory manager
136 createTimestamp: 20021001153300Z
137 modifyTimestamp: 20021001153300Z
138 nsUniqueId: f2b52289-1dd111b2-80ce8bff-8cf3a98d
139
140 # entry-id: 10
141 dn: uid=user_publisher,ou=people,dc=FatWire,dc=com
142 givenName: user
143 sn: publisher
144 objectClass: top
145 objectClass: person
146 objectClass: organizationalPerson
147 objectClass: inetorgperson
148 uid: user_publisher
149 cn: user publisher
150 userPassword: {SSHA}npSN8favjxM7aKYNYF+L2yNB1QWcAxR/
    EiJJcg==
151 mail: publisher@FatWire.com
152 creatorsName: cn=directory manager
153 modifiersName: cn=directory manager
154 createTimestamp: 20021001153300Z
155 modifyTimestamp: 20021001153300Z
156 nsUniqueId: f2b5228a-1dd111b2-80ce8bff-8cf3a98d
157
158 # entry-id: 11
159 dn: uid=user_pricer,ou=people,dc=FatWire,dc=com
160 givenName: user
161 sn: pricer
162 objectClass: top
163 objectClass: person
164 objectClass: organizationalPerson
165 objectClass: inetorgperson
166 uid: user_pricer
167 cn: user pricer
168 userPassword: {SSHA}Xz65ezg/
    Kug2tk7897tPS+u35r4zTlAUuwK9UA==
169 mail: pricer@FatWire.com
170 creatorsName: cn=directory manager
171 modifiersName: cn=directory manager
172 createTimestamp: 20021001153300Z
173 modifyTimestamp: 20021001153300Z
174 nsUniqueId: f2b5228b-1dd111b2-80ce8bff-8cf3a98d
175
176 # entry-id: 12
177 dn: uid=user_marketer,ou=people,dc=FatWire,dc=com
178 givenName: user
179 sn: marketer
180 objectClass: top
```

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```
181 objectClass: person
182 objectClass: organizationalPerson
183 objectClass: inetorgperson
184 uid: user_marketer
185 cn: user marketer
186 userPassword:
    {SSHA}vZFpfmvnvCLKbFWl18Pljp8fHVVRG8IwXzpsAg==
187 mail: marketer@FatWire.com
188 creatorsName: cn=directory manager
189 modifiersName: cn=directory manager
190 createTimestamp: 20021001153300Z
191 modifyTimestamp: 20021001153300Z
192 nsUniqueId: f2b5228c-1dd111b2-80ce8bff-8cf3a98d
193
194 # entry-id: 13
195 dn: uid=user_analyst,ou=people,dc=FatWire,dc=com
196 givenName: user
197 sn: analyst
198 objectClass: top
199 objectClass: person
200 objectClass: organizationalPerson
201 objectClass: inetorgperson
202 uid: user_analyst
203 cn: user analyst
204 userPassword:
    {SSHA}b508MLDI9plb9xHLPvzTDZFUD0pmLYQaIEahZA==
205 mail: analyst@FatWire.com
206 creatorsName: cn=directory manager
207 modifiersName: cn=directory manager
208 createTimestamp: 20021001153300Z
209 modifyTimestamp: 20021001153300Z
210 nsUniqueId: f2b5228d-1dd111b2-80ce8bff-8cf3a98d
211
212 # entry-id: 14
213 dn: uid=user_expert,ou=people,dc=FatWire,dc=com
214 givenName: user
215 sn: expert
216 objectClass: top
217 objectClass: person
218 objectClass: organizationalPerson
219 objectClass: inetorgperson
220 uid: user_expert
221 cn: user expert
222 userPassword: {SSHA}IIEk2beA/
    EeZlQNdaCTrTVPMCusBIOeNhGfIOg==
223 mail: expert@FatWire.com
224 creatorsName: cn=directory manager
225 modifiersName: cn=directory manager
226 createTimestamp: 20021001153300Z
227 modifyTimestamp: 20021001153300Z
228 nsUniqueId: f2b5228e-1dd111b2-80ce8bff-8cf3a98d
229
```

## Chapter 2: Configuring CSEE for LDAP or NT Authentication

```
230 # entry-id: 15
231 dn: uid=mirroruser,ou=people,dc=FatWire,dc=com
232 givenName: mirror
233 sn: user
234 objectClass: top
235 objectClass: person
236 objectClass: organizationalPerson
237 objectClass: inetorgperson
238 uid: mirroruser
239 cn: mirror user
240 userPassword:
    {SSHA}18zvklVCKQt9N04x0AhsyZvMPCxFcr8nz2iYUQ==
241 creatorsName: cn=directory manager
242 modifiersName: cn=directory manager
243 createTimestamp: 20021001153300Z
244 modifyTimestamp: 20021001153300Z
245 nsUniqueId: f2b5228f-1dd111b2-80ce8bff-8cf3a98d
246
247 # entry-id: 16
248 dn: uid=user_designer,ou=people,dc=FatWire,dc=com
249 givenName: user
250 sn: designer
251 objectClass: top
252 objectClass: person
253 objectClass: organizationalPerson
254 objectClass: inetorgperson
255 uid: user_designer
256 cn: user designer
257 userPassword: {SSHA}6H8yq7zbjMB7LTNQtpqWV+xz/
    OtT3BOHkv+KA==
258 mail: designer@FatWire.com
259 creatorsName: cn=directory manager
260 modifiersName: cn=directory manager
261 createTimestamp: 20021001153300Z
262 modifyTimestamp: 20021001153300Z
263 nsUniqueId: f2b52290-1dd111b2-80ce8bff-8cf3a98d
264
265 # entry-id: 17
266 dn: uid=Coco,ou=people,dc=FatWire,dc=com
267 givenName: C
268 sn: oco
269 objectClass: top
270 objectClass: person
271 objectClass: organizationalPerson
272 objectClass: inetorgperson
273 uid: Coco
274 cn: C oco
275 userPassword: {SSHA}xVRZ4xtUu0bG0GqtfyhubIUsJ21VF/
    4fsyUTBg==
276 mail: Coco@FatWire.com
277 creatorsName: cn=directory manager
278 modifiersName: cn=directory manager
```

## Installing the CSEE Content Applications

```
279 createTimestamp: 20021001153300Z
280 modifyTimestamp: 20021001153300Z
281 nsUniqueId: f2b52291-1dd111b2-80ce8bff-8cf3a98d
282
283 # entry-id: 18
284 dn: uid=Flo,ou=people,dc=FatWire,dc=com
285 givenName: F
286 sn: lo
287 objectClass: top
288 objectClass: person
289 objectClass: organizationalPerson
290 objectClass: inetorgperson
291 uid: Flo
292 cn: F lo
293 userPassword: {SSHA}E0j8hDF7ZxNkoHSsiNnR5M45BY/
    cXe4IT0j2Iw==
294 mail: Flo@FatWire.com
295 creatorsName: cn=directory manager
296 modifiersName: cn=directory manager
297 createTimestamp: 20021001153300Z
298 modifyTimestamp: 20021001153300Z
299 nsUniqueId: f2b52292-1dd111b2-80ce8bff-8cf3a98d
300
301 # entry-id: 19
302 dn: uid=Moe,ou=people,dc=FatWire,dc=com
303 givenName: M
304 sn: oe
305 objectClass: top
306 objectClass: person
307 objectClass: organizationalPerson
308 objectClass: inetorgperson
309 uid: Moe
310 cn: M oe
311 userPassword: {SSHA}Q08M/HspZdMaKTQgrxRQvjtSD4/
    6BtMGHjMQSA==
312 mail: Moe@FatWire.com
313 creatorsName: cn=directory manager
314 modifiersName: cn=directory manager
315 createTimestamp: 20021001153300Z
316 modifyTimestamp: 20021001153300Z
317 nsUniqueId: f2b52293-1dd111b2-80ce8bff-8cf3a98d
318
319 # entry-id: 20
320 dn: uid=Bobo,ou=people,dc=FatWire,dc=com
321 givenName: B
322 sn: obo
323 objectClass: top
324 objectClass: person
325 objectClass: organizationalPerson
326 objectClass: inetorgperson
327 uid: Bobo
328 cn: B obo
```

## Chapter 2: Configuring CSEE for LDAP or NT Authentication

```
329 userPassword: {SSHA}9ipG+/
    34B08KZwf4SY2f+z2Lbs7nTKhkEgX4KQ==
330 mail: Bobo@FatWire.com
331 creatorsName: cn=directory manager
332 modifiersName: cn=directory manager
333 createTimestamp: 20021001153300Z
334 modifyTimestamp: 20021001153300Z
335 nsUniqueId: f2b52294-1dd111b2-80ce8bff-8cf3a98d
336
337 # entry-id: 21
338 dn: uid=Joe,ou=people,dc=FatWire,dc=com
339 givenName: J
340 sn: oe
341 objectClass: top
342 objectClass: person
343 objectClass: organizationalPerson
344 objectClass: inetorgperson
345 uid: Joe
346 cn: J oe
347 userPassword:
    {SSHA}pLJf3weGdcaQFE42XFbSzFMnvO3EfElQTnHyQg==
348 mail: Joe@FatWire.com
349 creatorsName: cn=directory manager
350 modifiersName: cn=directory manager
351 createTimestamp: 20021001153300Z
352 modifyTimestamp: 20021001153300Z
353 nsUniqueId: f2b52295-1dd111b2-80ce8bff-8cf3a98d
354
355 # entry-id: 23
356 dn: uid=ContentServer,ou=people,dc=FatWire,dc=com
357 uid: ContentServer
358 givenName: Content
359 objectClass: top
360 objectClass: person
361 objectClass: organizationalPerson
362 objectClass: inetorgperson
363 sn: Server
364 cn: Content Server
365 userPassword:
    {SSHA}oolfSpFkq+enbnf0n8DkGoutwdaSaCwdx1C9JQ==
366 creatorsName: cn=directory manager
367 modifiersName: cn=directory manager
368 createTimestamp: 20021001153511Z
369 modifyTimestamp: 20021001153511Z
370 nsUniqueId: 5dfef481-1dd211b2-80ce8bff-8cf3a98d
```

**Idif Example 2 (iPlanet Directory Server): Groups**

```
1 version: 1
2
3 # entry-id: 2
4 dn: ou=groups,dc=FatWire,dc=com
5 ou: Groups
6 objectClass: top
7 objectClass: organizationalunit
8 creatorsName: cn=directory manager
9 modifiersName: cn=directory manager
10 createTimestamp: 20021001153330Z
11 modifyTimestamp: 20021001153330Z
12 nsUniqueId: 16786897-1dd211b2-80ce8bff-8cf3a98d
13
14 # entry-id: 3
15 dn: cn=Browser,ou=groups,dc=FatWire,dc=com
16 objectClass: top
17 objectClass: groupofuniquenames
18 uniqueMember: uid=DefaultReader,ou=people,dc=FatWire,dc=com
19 uniqueMember: uid=mirroruser,ou=people,dc=FatWire,dc=com
20 uniqueMember: uid=user_analyst,ou=people,dc=FatWire,dc=com
21 uniqueMember: uid=user_author,ou=people,dc=FatWire,dc=com
22 uniqueMember: uid=user_approver,ou=people,dc=FatWire,dc=com
23 uniqueMember: uid=user_checker,ou=people,dc=FatWire,dc=com
24 uniqueMember: uid=user_editor,ou=people,dc=FatWire,dc=com
25 uniqueMember: uid=user_expert,ou=people,dc=FatWire,dc=com
26 uniqueMember: uid=user_marketer,ou=people,dc=FatWire,dc=com
27 uniqueMember: uid=user_pricer,ou=people,dc=FatWire,dc=com
28 uniqueMember:
   uid=user_publisher,ou=people,dc=FatWire,dc=com
29 uniqueMember: uid=admin,ou=people,dc=FatWire,dc=com
30 uniqueMember: uid=editor,ou=people,dc=FatWire,dc=com
31 uniqueMember: uid=user_designer,ou=people,dc=FatWire,dc=com
32 uniqueMember: uid=Bobo,ou=people,dc=FatWire,dc=com
33 uniqueMember: uid=Coco,ou=people,dc=FatWire,dc=com
34 uniqueMember: uid=Flo,ou=people,dc=FatWire,dc=com
35 uniqueMember: uid=Joe,ou=people,dc=FatWire,dc=com
36 uniqueMember: uid=Moe,ou=people,dc=FatWire,dc=com
37 uniqueMember: uid=ContentServer,ou=people,dc=FatWire,dc=com
38 cn: Browser
39 creatorsName: cn=directory manager
40 modifiersName: cn=directory manager
41 createTimestamp: 20021001153330Z
42 modifyTimestamp: 20021001153712Z
43 nsUniqueId: 16786898-1dd211b2-80ce8bff-8cf3a98d
44
45 # entry-id: 4
46 dn: cn=SiteGod,ou=groups,dc=FatWire,dc=com
47 objectClass: top
48 objectClass: groupofuniquenames
49 cn: SiteGod
50 creatorsName: cn=directory manager
```

## Chapter 2: Configuring CSEE for LDAP or NT Authentication

```
51 modifiersName: cn=directory manager
52 createTimestamp: 20021001153331Z
53 modifyTimestamp: 20021001153734Z
54 nsUniqueId: 16786899-1dd211b2-80ce8bff-8cf3a98d
55 uniqueMember: uid=ContentServer,ou=people,dc=FatWire,dc=com
56
57 # entry-id: 5
58 dn: cn=ContentEditor,ou=groups,dc=FatWire,dc=com
59 objectClass: top
60 objectClass: groupofuniquenames
61 cn: ContentEditor
62 creatorsName: cn=directory manager
63 modifiersName: cn=directory manager
64 createTimestamp: 20021001153331Z
65 modifyTimestamp: 20021001153851Z
66 nsUniqueId: 1678689a-1dd211b2-80ce8bff-8cf3a98d
67 uniqueMember: uid=ContentServer,ou=people,dc=FatWire,dc=com
68
69 # entry-id: 6
70 dn: cn=ElementReader,ou=groups,dc=FatWire,dc=com
71 objectClass: top
72 objectClass: groupofuniquenames
73 uniqueMember: uid=user_approver,ou=people,dc=FatWire,dc=com
74 uniqueMember: uid=user_pricer,ou=people,dc=FatWire,dc=com
75 uniqueMember: uid=user_editor,ou=people,dc=FatWire,dc=com
76 uniqueMember: uid=user_marketer,ou=people,dc=FatWire,dc=com
77 uniqueMember: uid=user_analyst,ou=people,dc=FatWire,dc=com
78 uniqueMember: uid=user_author,ou=people,dc=FatWire,dc=com
79 uniqueMember: uid=user_expert,ou=people,dc=FatWire,dc=com
80 uniqueMember: uid=user_checker,ou=people,dc=FatWire,dc=com
81 uniqueMember: uid=Bobo,ou=people,dc=FatWire,dc=com
82 uniqueMember: uid=Coco,ou=people,dc=FatWire,dc=com
83 uniqueMember: uid=Flo,ou=people,dc=FatWire,dc=com
84 uniqueMember: uid=Joe,ou=people,dc=FatWire,dc=com
85 uniqueMember: uid=Moe,ou=people,dc=FatWire,dc=com
86 uniqueMember: uid=ContentServer,ou=people,dc=FatWire,dc=com
87 cn: ElementReader
88 creatorsName: cn=directory manager
89 modifiersName: cn=directory manager
90 createTimestamp: 20021001153331Z
91 modifyTimestamp: 20021001153909Z
92 nsUniqueId: 1678689b-1dd211b2-80ce8bff-8cf3a98d
93
94 # entry-id: 7
95 dn: cn=ElementEditor,ou=groups,dc=FatWire,dc=com
96 objectClass: top
97 objectClass: groupofuniquenames
98 uniqueMember: uid=admin,ou=people,dc=FatWire,dc=com
99 uniqueMember: uid=editor,ou=people,dc=FatWire,dc=com
100 uniqueMember: uid=mirroruser,ou=people,dc=FatWire,dc=com
101 uniqueMember: uid=user_designer,ou=people,dc=FatWire,dc=com
102 uniqueMember: uid=Coco,ou=people,dc=FatWire,dc=com
```

## Installing the CSEE Content Applications

```
103 uniqueMember: uid=ContentServer,ou=people,dc=FatWire,dc=com
104 cn: ElementEditor
105 creatorsName: cn=directory manager
106 modifiersName: cn=directory manager
107 createTimestamp: 20021001153331Z
108 modifyTimestamp: 20021001153925Z
109 nsUniqueId: 1678689c-1dd211b2-80ce8bff-8cf3a98d
110
111 # entry-id: 8
112 dn: cn=PageReader,ou=groups,dc=FatWire,dc=com
113 objectClass: top
114 objectClass: groupofuniquenames
115 uniqueMember: uid=user_approver,ou=people,dc=FatWire,dc=com
116 uniqueMember: uid=user_pricer,ou=people,dc=FatWire,dc=com
117 uniqueMember: uid=user_editor,ou=people,dc=FatWire,dc=com
118 uniqueMember: uid=user_marketer,ou=people,dc=FatWire,dc=com
119 uniqueMember: uid=user_analyst,ou=people,dc=FatWire,dc=com
120 uniqueMember: uid=user_author,ou=people,dc=FatWire,dc=com
121 uniqueMember: uid=user_expert,ou=people,dc=FatWire,dc=com
122 uniqueMember: uid=user_checker,ou=people,dc=FatWire,dc=com
123 uniqueMember: uid=Bobo,ou=people,dc=FatWire,dc=com
124 uniqueMember: uid=Coco,ou=people,dc=FatWire,dc=com
125 uniqueMember: uid=Flo,ou=people,dc=FatWire,dc=com
126 uniqueMember: uid=Joe,ou=people,dc=FatWire,dc=com
127 uniqueMember: uid=Moe,ou=people,dc=FatWire,dc=com
128 cn: PageReader
129 creatorsName: cn=directory manager
130 modifiersName: cn=directory manager
131 createTimestamp: 20021001153331Z
132 modifyTimestamp: 20021001153331Z
133 nsUniqueId: 1678689d-1dd211b2-80ce8bff-8cf3a98d
134
135 # entry-id: 9
136 dn: cn=PageEditor,ou=groups,dc=FatWire,dc=com
137 objectClass: top
138 objectClass: groupofuniquenames
139 uniqueMember: uid=user_designer,ou=people,dc=FatWire,dc=com
140 uniqueMember: uid=admin,ou=people,dc=FatWire,dc=com
141 uniqueMember: uid=editor,ou=people,dc=FatWire,dc=com
142 uniqueMember: uid=mirroruser,ou=people,dc=FatWire,dc=com
143 uniqueMember: uid=Coco,ou=people,dc=FatWire,dc=com
144 cn: PageEditor
145 creatorsName: cn=directory manager
146 modifiersName: cn=directory manager
147 createTimestamp: 20021001153331Z
148 modifyTimestamp: 20021001153331Z
149 nsUniqueId: 1678689e-1dd211b2-80ce8bff-8cf3a98d
150
151 # entry-id: 10
152 dn: cn=UserReader,ou=groups,dc=FatWire,dc=com
153 objectClass: top
154 objectClass: groupofuniquenames
```

## Chapter 2: Configuring CSEE for LDAP or NT Authentication

```
155 uniqueMember: uid=user_approver,ou=people,dc=FatWire,dc=com
156 uniqueMember: uid=user_pricer,ou=people,dc=FatWire,dc=com
157 uniqueMember: uid=user_designer,ou=people,dc=FatWire,dc=com
158 uniqueMember: uid=user_editor,ou=people,dc=FatWire,dc=com
159 uniqueMember: uid=user_marketer,ou=people,dc=FatWire,dc=com
160 uniqueMember: uid=user_analyst,ou=people,dc=FatWire,dc=com
161 uniqueMember: uid=user_author,ou=people,dc=FatWire,dc=com
162 uniqueMember: uid=user_expert,ou=people,dc=FatWire,dc=com
163 uniqueMember: uid=admin,ou=people,dc=FatWire,dc=com
164 uniqueMember: uid=user_checker,ou=people,dc=FatWire,dc=com
165 uniqueMember: uid=editor,ou=people,dc=FatWire,dc=com
166 uniqueMember: uid=mirroruser,ou=people,dc=FatWire,dc=com
167 uniqueMember: uid=Bobo,ou=people,dc=FatWire,dc=com
168 uniqueMember: uid=Coco,ou=people,dc=FatWire,dc=com
169 uniqueMember: uid=Flo,ou=people,dc=FatWire,dc=com
170 uniqueMember: uid=Joe,ou=people,dc=FatWire,dc=com
171 uniqueMember: uid=Moe,ou=people,dc=FatWire,dc=com
172 uniqueMember: uid=ContentServer,ou=people,dc=FatWire,dc=com
173 cn: UserReader
174 creatorsName: cn=directory manager
175 modifiersName: cn=directory manager
176 createTimestamp: 20021001153332Z
177 modifyTimestamp: 20021001153956Z
178 nsUniqueId: 1678689f-1dd211b2-80ce8bff-8cf3a98d
179
180 # entry-id: 11
181 dn: cn=UserEditor,ou=groups,dc=FatWire,dc=com
182 objectClass: top
183 objectClass: groupofuniquenames
184 uniqueMember: uid=admin,ou=people,dc=FatWire,dc=com
185 uniqueMember: uid=Bobo,ou=people,dc=FatWire,dc=com
186 uniqueMember: uid=ContentServer,ou=people,dc=FatWire,dc=com
187 cn: UserEditor
188 creatorsName: cn=directory manager
189 modifiersName: cn=directory manager
190 createTimestamp: 20021001153332Z
191 modifyTimestamp: 20021001154010Z
192 nsUniqueId: 167868a0-1dd211b2-80ce8bff-8cf3a98d
193
194 # entry-id: 12
195 dn: cn=TableEditor,ou=groups,dc=FatWire,dc=com
196 objectClass: top
197 objectClass: groupofuniquenames
198 uniqueMember: uid=user_designer,ou=people,dc=FatWire,dc=com
199 uniqueMember: uid=admin,ou=people,dc=FatWire,dc=com
200 uniqueMember: uid=mirroruser,ou=people,dc=FatWire,dc=com
201 uniqueMember: uid=Coco,ou=people,dc=FatWire,dc=com
202 uniqueMember: uid=ContentServer,ou=people,dc=FatWire,dc=com
203 cn: TableEditor
204 creatorsName: cn=directory manager
205 modifiersName: cn=directory manager
206 createTimestamp: 20021001153332Z
```

## Installing the CSEE Content Applications

```
207 modifyTimestamp: 20021001154024Z
208 nsUniqueId: 167868a1-1dd211b2-80ce8bff-8cf3a98d
209
210 # entry-id: 13
211 dn: cn=Visitor,ou=groups,dc=FatWire,dc=com
212 objectClass: top
213 objectClass: groupofuniquenames
214 uniqueMember: uid=user_approver,ou=people,dc=FatWire,dc=com
215 uniqueMember: uid=user_pricer,ou=people,dc=FatWire,dc=com
216 uniqueMember: uid=DefaultReader,ou=people,dc=FatWire,dc=com
217 uniqueMember: uid=user_designer,ou=people,dc=FatWire,dc=com
218 uniqueMember: uid=user_editor,ou=people,dc=FatWire,dc=com
219 uniqueMember: uid=user_marketer,ou=people,dc=FatWire,dc=com
220 uniqueMember: uid=user_analyst,ou=people,dc=FatWire,dc=com
221 uniqueMember: uid=user_author,ou=people,dc=FatWire,dc=com
222 uniqueMember: uid=user_expert,ou=people,dc=FatWire,dc=com
223 uniqueMember: uid=admin,ou=people,dc=FatWire,dc=com
224 uniqueMember: uid=editor,ou=people,dc=FatWire,dc=com
225 uniqueMember: uid=user_checker,ou=people,dc=FatWire,dc=com
226 uniqueMember: uid=mirroruser,ou=people,dc=FatWire,dc=com
227 cn: Visitor
228 creatorsName: cn=directory manager
229 modifiersName: cn=directory manager
230 createTimestamp: 20021001153332Z
231 modifyTimestamp: 20021001153332Z
232 nsUniqueId: 167868a2-1dd211b2-80ce8bff-8cf3a98d
233
234 # entry-id: 14
235 dn: cn=VisitorAdmin,ou=groups,dc=FatWire,dc=com
236 objectClass: top
237 objectClass: groupofuniquenames
238 uniqueMember: uid=mirroruser,ou=people,dc=FatWire,dc=com
239 uniqueMember: uid=user_designer,ou=people,dc=FatWire,dc=com
240 uniqueMember: uid=admin,ou=people,dc=FatWire,dc=com
241 cn: VisitorAdmin
242 creatorsName: cn=directory manager
243 modifiersName: cn=directory manager
244 createTimestamp: 20021001153332Z
245 modifyTimestamp: 20021001153332Z
246 nsUniqueId: 167868a3-1dd211b2-80ce8bff-8cf3a98d
247
248 # entry-id: 15
249 dn: cn=RemoteClient,ou=groups,dc=FatWire,dc=com
250 objectClass: top
251 objectClass: groupofuniquenames
252 uniqueMember: uid=user_analyst,ou=people,dc=FatWire,dc=com
253 uniqueMember: uid=user_approver,ou=people,dc=FatWire,dc=com
254 uniqueMember: uid=user_author,ou=people,dc=FatWire,dc=com
255 uniqueMember: uid=user_checker,ou=people,dc=FatWire,dc=com
256 uniqueMember: uid=user_designer,ou=people,dc=FatWire,dc=com
257 uniqueMember: uid=user_editor,ou=people,dc=FatWire,dc=com
258 uniqueMember: uid=user_expert,ou=people,dc=FatWire,dc=com
```

## Chapter 2: Configuring CSEE for LDAP or NT Authentication

```
259 uniqueMember: uid=user_marketer,ou=people,dc=FatWire,dc=com
260 uniqueMember: uid=user_pricer,ou=people,dc=FatWire,dc=com
261 uniqueMember: uid=admin,ou=people,dc=FatWire,dc=com
262 cn: RemoteClient
263 creatorsName: cn=directory manager
264 modifiersName: cn=directory manager
265 createTimestamp: 20021001153332Z
266 modifyTimestamp: 20021001153332Z
267 nsUniqueId: 167868a4-1dd211b2-80ce8bff-8cf3a98d
268
269 # entry-id: 16
270 dn: cn=xceladmin,ou=groups,dc=FatWire,dc=com
271 objectClass: top
272 objectClass: groupofuniquenames
273 uniqueMember: uid=mirroruser,ou=people,dc=FatWire,dc=com
274 uniqueMember: uid=admin,ou=people,dc=FatWire,dc=com
275 uniqueMember: uid=Bobo,ou=people,dc=FatWire,dc=com
276 uniqueMember: uid=Coco,ou=people,dc=FatWire,dc=com
277 cn: xceladmin
278 creatorsName: cn=directory manager
279 modifiersName: cn=directory manager
280 createTimestamp: 20021001153332Z
281 modifyTimestamp: 20021001153332Z
282 nsUniqueId: 167868a5-1dd211b2-80ce8bff-8cf3a98d
283
284 # entry-id: 17
285 dn: cn=xceleditor,ou=groups,dc=FatWire,dc=com
286 objectClass: top
287 objectClass: groupofuniquenames
288 uniqueMember: uid=mirroruser,ou=people,dc=FatWire,dc=com
289 uniqueMember: uid=user_analyst,ou=people,dc=FatWire,dc=com
290 uniqueMember: uid=user_approver,ou=people,dc=FatWire,dc=com
291 uniqueMember: uid=user_author,ou=people,dc=FatWire,dc=com
292 uniqueMember: uid=user_checker,ou=people,dc=FatWire,dc=com
293 uniqueMember: uid=user_designer,ou=people,dc=FatWire,dc=com
294 uniqueMember: uid=user_editor,ou=people,dc=FatWire,dc=com
295 uniqueMember: uid=user_expert,ou=people,dc=FatWire,dc=com
296 uniqueMember: uid=user_marketer,ou=people,dc=FatWire,dc=com
297 uniqueMember: uid=user_pricer,ou=people,dc=FatWire,dc=com
298 uniqueMember: uid=editor,ou=people,dc=FatWire,dc=com
299 uniqueMember: uid=Bobo,ou=people,dc=FatWire,dc=com
300 uniqueMember: uid=Coco,ou=people,dc=FatWire,dc=com
301 uniqueMember: uid=Flo,ou=people,dc=FatWire,dc=com
302 uniqueMember: uid=Joe,ou=people,dc=FatWire,dc=com
303 uniqueMember: uid=Moe,ou=people,dc=FatWire,dc=com
304 cn: xceleditor
305 creatorsName: cn=directory manager
306 modifiersName: cn=directory manager
307 createTimestamp: 20021001153332Z
308 modifyTimestamp: 20021001153332Z
309 nsUniqueId: 167868a6-1dd211b2-80ce8bff-8cf3a98d
```

## Step 2: Configure the Content Server Property Files

Next, you must configure the following three property files:

- `futuretense.ini`
- `dir.ini`
- `ldap.ini`

### Set Property Values in `futuretense.ini`

1. Start the Property Editor and open `futuretense.ini`.
2. Select the **authentication** tab.
3. Set the following values for the following properties:

Property	Value
<code>cs.manageproperty</code>	<code>ldap.ini</code>
<code>cs.manageUser</code>	<code>COM.FutureTense.LDAP.ValidateLogin.LDAPLogin</code>

4. Select **File > Save** to save the values.
5. Select **File > Close**.
6. Continue to the next procedure.

### Set Property Values in the `dir.ini` File

1. Open `dir.ini` in the Property Editor.
2. Select the **Attribute Names** tab and set the following values for the following properties:

Property	Value
<code>cn</code>	iPlanet: <code>cn</code> Active Directory: <code>cn</code> <b>Note:</b> Be sure that the value that you enter here exactly matches the value set for the <code>cn</code> property in the <code>ldap.ini</code> file.
<code>loginattribute</code>	iPlanet: <code>uid</code> Active Directory: <code>cn</code>
<code>password</code>	iPlanet: <code>userPassword</code> Active Directory: <code>password</code>

Property	Value
uniquemember	iPlanet: uniquemember Active Directory: member <b>Note:</b> Be sure that the value that you enter here exactly matches the value set for the uniquemember property in the ldap.ini file.
username	iPlanet: uid Active Directory: sAMAccountName <b>Note:</b> Be sure that the value that you enter here exactly matches the value set for the username property in the ldap.ini file.

3. Select the **Global Data** tab and set the following values for the following properties:

Property	Value
groupparent	iPlanet: ou=groups,dc=companyname,dc=com Active Directory: cn=groups,dc=companyname,dc=com <b>Note:</b> Be sure that the value that you enter here exactly matches the value set for the LDAPGroupsBase property in the ldap.ini file
peopleparent	iPlanet: cn=people,dc=companyname,dc=com Active Directory: cn=users,dc=companyname,dc=com <b>Note:</b> Be sure that the value you enter here exactly matches the value set for the LDAPUserBase property in the ldap.ini file.

4. Select the **Interface Implementations** tab and specify the following values for the following properties:

Property	Value
className.IDir	com.openmarket.directory.jndi.JNDI Dir
className.IName	com.openmarket.directory.jndi.Name Wrapper

5. Select the **JNDI SPI Env** tab and specify the following values for the following properties:

Property	Value
<code>jndi.baseurl</code>	<code>ldap://servername:port</code> <b>Note:</b> The value entered for server name and port number must match the value that you enter for the <code>LDAP.Host</code> and <code>LDAP.Port</code> properties in the <code>ldap.ini</code> file.
<code>jndi.connectAsUser</code>	If Content Server can query the directory server for information as the user who is logged in to the Content Server interface and is making the query, set this property to <code>true</code> . If Content Server must query the directory server as a specific user other than the user who is logged in to the Content Server interface, set this property to <code>false</code> . Then be sure to specify a valid user name/password combination with the <code>jndi.login</code> and <code>jndi.password</code> properties.
<code>jndi.custom</code>	(leave this value blank)
<code>jndi.login</code>	If the <code>jndi.connectAsUser</code> property is set to <code>false</code> , specify the fully qualified, fully distinguished name of the user account that Content Server will use to query the directory server.
<code>jndi.password</code>	If the <code>jndi.connectAsUser</code> property is set to <code>false</code> , specify the password for the user account that Content Server will use to query the directory server. This value is encrypted.

6. Select the **Schema Defaults** tab and specify the following values for the following properties:

Property	Value
<code>defaultGroupAttrs</code>	<code>iPlanet:</code> <code>objectClass=top</code> <code>&amp;objectClass=groupofuniquenames</code> <b>Active Directory:</b> <code>objectClass=top&amp;objectClass=group</code>

Property	Value
defaultPeopleAttrs	iPlanet: objectClass=person &objectclass=top &objectclass=organizationalperson &objectClass=inetOrgPerson  Active Directory objectClass=person &objectclass=top &objectclass=organizationalperson &objectClass=user
objectclassGroup	iPlanet: groupofuniqueNames Active Directory: group
objectclassPerson	person
requiredGroupAttrs	(leave this value blank)
requiredPeopleAttrs	Specify all the required user attributes for this directory server. For example: sn=Last Name&cn=Full Name

7. Select **File > Save**.

8. Select **File > Close**.

## Create and Set Property Values in the ldap.ini File

Before you can configure the properties in the `ldap.ini` file, you must create the file with the Property Editor. This procedure describes how to create the file, and then describes which properties to configure:

1. In the Property Editor, select **File > Open**.

2. Click in the **File name** field and enter this text: `ldap.ini`

3. Click **Open**.

The **Passwords encrypted on save** message appears.

4. Click **OK**.

The **Missing properties have been added** message indicates that the file is now created.

5. Select the **Authentication** tab and specify the following values for the following properties:

Property	Value
LDAP.GroupsBase	<p>The base distinguished name under which the user groups that map to Content Server ACLs must be located.</p> <p>For example: ou=groups,dc=FatWire,dc=com</p>
LDAP.Host	<p>The host name of the LDAP server used for user authentication.</p> <p>This value must match the server name portion of the value that you entered for the <code>jndi.baseurl</code> property in the <code>dir.ini</code> file.</p>
LDAP.Port	<p>The port number of the LDAP server used for user authentication.</p> <p>This value must match the port number portion of the value that you entered for the <code>jndi.baseurl</code> property in the <code>dir.ini</code> file.</p>
LDAP.PrivUser	<p>If the LDAP directory server allows anonymous access, leave this value blank.</p> <p>If the LDAP directory server does not allow anonymous access for attribute queries, specify the distinguished name of the user account that Content Server should use. This user must have access to search the base groups distinguished name for members.</p> <p>The format of this value is: attribute that designates group name = user name. For example: <code>cn=Directory Manager</code></p> <p>Note that the attribute that designates the group name must match the value set for the <code>cn</code> property on the Schema tab in this file.</p>
LDAP.PrivPassword	<p>If you set a value for the <code>LDAP.PrivUser</code> property, specify the password for that user.</p> <p>The value that you enter is encrypted.</p> <p>If you do not set a value for the <code>LDAP.PrivUser</code> property, leave this value blank.</p>
LDAP.UserBase	<p>The base distinguished name under which the Content Server user names must be located.</p> <p>For example: ou=people,dc=FatWire,dc=com</p> <p><b>Note:</b> Set this to the lowest level in the directory hierarchy that you can.</p>

6. Select the **Schema Defaults** tab and specify the following values for the following properties:

Property	Value
cn	The name of the user attribute that designates the group name. Possible values: iPlanet: cn Active Directory: cn <b>Note:</b> Be sure that the value that you enter here exactly matches the value set for the cn property in the <code>dir.ini</code> file.
uniquemember	The attribute that designates a group assignment. Possible values: iPlanet: uniquemember Active Directory: member <b>Note:</b> Be sure that the value that you enter here exactly matches the value set for the uniquemember property in the <code>dir.ini</code> file.
username	The name of the user attribute that holds the user name (that is, the login ID). Possible values: iPlanet: uid Active Directory: sAMAccountName <b>Note:</b> Be sure that the value that you enter here exactly matches the value set for the username property in the <code>dir.ini</code> file.

7. Select **File > Save**.
8. Select **File > Close**.
9. Stop and restart the application server.

### Step 3: Testing the LDAP Configuration

To test your configuration, open a browser and enter the following URL:

```
http://servername:port/servlet/
CatalogManager?ftcmd=login&username=DefaultReader&password=
SomeReader
```

where *servername* is the name of the machine that is hosting the CSEE system and *port* is the port number of that server.

If the browser displays a “Login Successful” message, you have configured your LDAP plug-in correctly. If you do not see the “Login Successful” message, verify that you

created the DefaultReader user in the directory server and verify that all of the properties were set with the correct values.

When you have verified that you configured the LDAP plug-in correctly, continue with the installation or upgrade for this CSEE system. See [Chapter 3, “Preparing to Install the CSEE Content Applications.”](#)

## Configuring the NT 4.0 Plug-in

Before you can begin configuring the NT 4.0 plug-in, do the following:

- For a CSEE installation, install Content Server first—but do **not** install the CSEE content applications.
- For a CSEE upgrade, upgrade Content Server first—but do **not** upgrade the CSEE content applications.

Configuring a CSEE system to use NT authentication requires two main steps:

- Setting values for properties on the **authentication** tab in the `futuretense.ini` file.
- Setting values for properties in the `dir.ini` file

For descriptions of any of these properties, see the “Properties” chapter in the *CSEE Administrator’s Guide*.

### Set Property Values on the authentication Tab in the futuretense.ini File

1. Start the Property Editor and open `futuretense.ini`.
2. Select the **authentication** tab.
3. Set the following values for the following properties:

Property	Value
<code>cs.manageproperty</code>	<code>futuretense.ini</code>
<code>cs.manageUser</code>	<code>COM.FutureTense.NTUserGroups.ValidateLogin.NTUserGroupsLogin</code>
<code>cs.manageUserSystem</code>	Enter a comma-separated list of the NT domain names that Content Server can use to authenticate users. Authentication is done in the order specified by the list of domains. Specify the local system with a period (.) character.
<code>ntlogin.DefaultACL</code>	Optional. Specify a comma-separated list of any ACLs that should be assigned to all users by default. If there are no ACLs that should be assigned to users by default, leave this value blank.

Property	Value
<code>ntlogin.DefaultReaderACL</code>	Optional. The ACL list to be assigned to the account that is used as the default reader account.
<code>ntlogin.DefaultReaderID</code>	Optional. The user name to be used as the default reader account. By default, it is set to <code>DefaultReader</code> . This value can be blank.
<code>ntlogin.DefaultReaderPW</code>	Required if <code>nt.DefaultReaderID</code> has a value. The password for the user name that the NT authentication module uses as the default reader account. Required if there is a value for <code>ntlogin.DefaultReaderID</code> . By default, it is set to <code>SomeReader</code> . The value is encrypted.
<code>ntlogin.LogFile</code>	Required if <code>ntlogin.Logging</code> is set to <code>true</code> . The complete path to the file where debug information from the NT authentication module should be written.
<code>ntlogin.Logging</code>	Optional. Enables or disables debugging for the NT authentication module. Possible values are <code>true</code> or <code>false</code> .

4. Select **File > Save**.
5. Select **File > Close**.
6. Continue to the next procedure.

## Set Property Values in the `dir.ini` File

1. Open `dir.ini` in the Property Editor.
2. Select the **Attribute Names** tab and set the following values for the following properties:

Property	Value
<code>cn</code>	<code>cn</code>
<code>password</code>	<code>password</code>
<code>uniquemember</code>	<code>uniquemember</code>

Property	Value
username	username

3. Select the **Global Data** tab and set the following values for the following properties:

Property	Value
groupparent	ou=groups
peopleparent	ou=people

4. Select the **Interface Implementations** tab and specify values for the following two properties only. Do not modify any of the other properties on this tab.

Property	Value
className.IDir	com.openmarket.directory.nt.NTDir
className.IName	com.openmarket.directory.cs.CSName

5. Select **File > Save**.
6. Select **File > Close**.
7. Stop and restart the application server.

## Section 2

# Installing the Content Applications

This section describes how to install the CSEE content applications, including how to prepare for the installation and how to test the installation.

It contains the following chapters:

- [Chapter 3, “Preparing to Install the CSEE Content Applications”](#)
- [Chapter 4, “Installing the CSEE Content Applications”](#)
- [Chapter 5, “Configuring Commerce Connector”](#)
- [Chapter 6, “Reinstalling and Uninstalling CSEE Content Applications”](#)



## Chapter 3

# Preparing to Install the CSEE Content Applications

Before you can run the CSEE content applications installation program, you must verify that the hardware that you plan to use meets the CSEE system requirements and you must complete several other pre-installation tasks.

This chapter describes the prerequisites for installing or upgrading CSEE content applications on the Windows NT, Windows 2000, Solaris, and AIX operating systems.

This chapter contains the following information:

- [FatWire Installation Guidelines](#)
- [Product Dependencies](#)
- [System Requirements](#)
- [Pre-Installation Tasks](#)
- [Next Step](#)

## FatWire Installation Guidelines

Please call FatWire Technical Support before installing the software in a licensed configuration, and note the following:

- Content Server software depends on the correct installation of several third-party software products, including web servers, application servers, and databases. For more details, please see the Release Notes for information and pointers to the latest information.
- To ensure a successful installation, please be sure that FatWire installation personnel or a qualified system integrator installs this licensed product on your CSEE systems.

## Product Dependencies

This section describes the product dependencies for the CSEE content applications. For example, you cannot install any of the CSEE content applications without having first installed Content Server.

### LDAP or NT 4.0 User Authentication Plug-ins

If you plan to use either the LDAP or NT 4.0 plug-in to authenticate users rather than the Content Server native user management, you must configure the plug-in **after** Content Server is installed and **before** you install the CSEE content applications.

For information, see [Chapter 2, “Configuring CSEE for LDAP or NT Authentication.”](#)

### CS-Direct

Product dependencies for CS-Direct are as follows:

- Before you can install CS-Direct 5.0.1, you must install Content Server 5.0.1.
- If you plan to use either the LDAP or NT 4.0 user manager plug-in, you must configure the plug-in before you install CS-Direct.
- If you plan to work with the CSEE COM Interfaces samples that are provided, you must select the installation option for the Hello Asset World sample site when you install CS-Direct.

### CS-Direct Advantage

Product dependencies for CS-Direct Advantage are as follows:

- Before you install CS-Direct Advantage 5.0.1, you must first install Content Server 5.0.1 or later.
- When you install CS-Direct Advantage 5.0.1, you must also select CS-Direct.

### Commerce Connector

If you install CS-Direct Advantage, you can also install a module for communicating with Transact, called Commerce Connector.

Commerce Connector is a collection of Java interfaces and classes which provide an interface to a remote Transact commerce system. CS-Direct Advantage developers can call the new Java interfaces through a set of included XML or JSP tags.

Product dependencies for Commerce Connector are as follows to enable your online catalog to communicate with Transact for e-commerce support:

- Transact 5 must be installed and configured on a UNIX machine that is separate from CS-Direct Advantage. See your Transact 5 *Installation Guide* for more information.
- The Commerce Connector software must be installed and configured on both the machine running CS-Direct Advantage and the machine running Transact.

## CS-Engage

Product dependencies for CS-Engage are as follows:

- Before you install CS-Engage, you must first install Content Server 5.0 or later.
- When you install CS-Engage, you must also select CS-Direct and CS-Direct Advantage.

In addition, CS-Engage has built-in support for the Commerce Connector module that communicates with Transact. For more information about Transact support through Commerce Connector, see [“Commerce Connector”](#) on page 42.

## Analysis Connector

Product dependencies for Analysis Connector are as follows:

- Before you install Analysis Connector, you must first install Content Server 5.0 or later.
- When you install Analysis Connector, you must also select CS-Direct, CS-Direct Advantage, and CS-Engage.

## System Requirements

FatWire frequently revises the specific software and hardware configurations that are supported by Content Server, CS-Satellite, and CS-Direct.

For the latest information, see the Software Product Description:

<http://cswww.FatWire.com/products/ContentServer>

## Pre-Installation Tasks

Before you start the CSEE content applications installation program, you must complete the tasks described in this section.

### Oracle DBMS Only: Verify the `cc.bigtext` Property

If your DBMS is Oracle, then you must verify that the `cc.bigtext` property is set correctly before you install the content applications. The appropriate value for this property depends on the Oracle driver that you are using.

Complete the following steps:

1. Start the Property Editor by using the `propeditor.sh` script or `propeditor.bat` file in the Content Server home directory.
2. From the **File** menu, open `futuretense.ini`.
3. Select the **Database** tab.
4. In the **Items** list, select `cc.bigtext`.
5. Do one of the following:
  - If you are using Oracle Type 4 drivers, set the value to `VARCHAR(2000)`.
  - If you are using any other Oracle driver, verify that the value is set to `CLOB`.
6. From the **File** menu, select **Save**.

### Stop the Application Server

Before installing CSEE content applications, you must stop the application server that you previously started as part of the Content Server installation.

For **WebLogic** installations: stop the Managed server but leave the Admin server running.

During the installation of the content applications, you will restart the application server.

### Disable Debugging

FatWire recommends that you turn off Content Server debugging and the application server debugging before running the CSEE content applications installation program. Note that these changes will be implemented when you restart the application server at the appropriate time during the installation.

#### Turn Off Content Server Debugging

1. Start the Property Editor with your `propeditor.sh` or `propeditor.bat` file.
2. From the **File** menu, select the `futuretense.ini` file.
3. Click the **Debug Tab**.
4. From the **Items** list, select the `ft.debug` property.
5. In the **Value** field, type `no`.
6. Click **Accept** to accept the changes.
7. From the **Items** list, select the `ft.dbdebug` property.

8. In the **Value** field, type `no`.
9. Click **Accept**.
10. From the **Items** list, select the `ft.xmlldbdebug` property.
11. In the **Value** field, type `no`.
12. Click **Accept**.
13. From the **File** menu, choose **Save**.  
A message box displays a confirmation notice.
14. Click **OK**, then select **File > Exit**.

## Turn Off Application Server Debugging

Turn off application server debugging on your system. Refer to your application server's documentation for more instructions on debugging.

## Verify Shared Directories for Cluster Installations

If you are installing the CSEE content applications on a clustered CSEE system, verify that the same shared file system location was specified in the Web Server Document Root window when Content Server was installed on the machines in the cluster. Verify that the following directories are shared by all the machines in the cluster:

```
/ShareRoot/FutureTense/Storage  
/ShareRoot/FutureTense/Content  
/ShareRoot/FutureTense/elements
```

For example:

```
/export/home/FutureTense/Storage  
/export/home/FutureTense/Content  
/export/home/FutureTense/elements
```

## Next Step

Proceed to [Chapter 4, "Installing the CSEE Content Applications."](#)



## Chapter 4

# Installing the CSEE Content Applications

This chapter describes how to install the CS content applications. Unless noted, the steps in the procedures are common to all platforms.

This chapter contains the following sections:

- [Extract and Start the Installation Program](#)
- [Install the Content Applications](#)
- [Complete and Test the Installation](#)
- [Cluster Installations](#)
- [Next Step](#)
- [Troubleshooting](#)

### Note

If you plan to use LDAP or NT authentication instead of the Content Server user manager, you must configure the appropriate plug-in **after** installing Content Server, but **before** installing CSEE content applications.

For information, see [Chapter 2, “Configuring CSEE for LDAP or NT Authentication.”](#)

## Extract and Start the Installation Program

To start the installation program, complete the following steps:

1. Be sure that you have completed the steps in the [Chapter 3, “Preparing to Install the CSEE Content Applications.”](#) If this is an upgrade, be sure that you have completed the pre-upgrade steps that are described in *Upgrading to CSEE 5.0*.
2. Be sure that the application server has been stopped.
3. Be sure that the database is running.
4. For Windows platforms, close all open browsers.
5. Create a temporary directory.
6. Copy the Solaris, AIX, Windows NT, or Windows 2000 kit, as appropriate to your site, into the temporary directory that you just created.
7. Do one of the following:
  - On Solaris or AIX, access the Shell command prompt.
  - On Windows NT or Windows 2000, access the DOS command prompt.
8. Do one of the following:
  - On Solaris or AIX, untar the `xcl.tar` file using `tar -xvf xcl.tar`

### Note

Do not use the GNU tar. The GNU tar can create corrupt file names.

- On Windows NT or Windows 2000, execute the following self-extracting file and unzip it in the temporary directory: `xcl.exe`
9. Change the directory to `Xcelerate`.
  10. Do one of the following:
    - For Solaris or AIX, enter:  
`./csinstall.sh root_directory`  
For example, if Content Server is installed in a directory named `/export/home/ContentServer`, enter the following:  
`./csinstall.sh /export/home/ContentServer`
    - For Windows NT or Windows 2000, enter:  
`csinstall root_directory`  
For example, if Content Server is installed in a directory named `c:\ContentServer`, enter the following:  
`csinstall c:\ContentServer`

The installation program begins to run.

## Install the Content Applications

This section advises how to complete the installation windows that are displayed by the CS content applications' installation program, beginning with the first window. .

After the installation program starts running, it runs identically on all operating systems. After you start the installation program as described in the preceding section, continue by navigating through the installation windows described in this section.

### Select Products

Select **Content Server Applications 5.0**, and then click **Next**.

### Select Operation

Select **Install/Upgrade**, and then click **Next**.

(The installation program checks for product information in certain configuration files and determines whether this is a new installation or an upgrade installation. For more information, see the *Upgrading to CSEE 5.0.1* guide.)

### Cluster Configuration

Do one of the following:

- If you are installing the content applications on a single server or on the master of a cluster, click **Next**.
- If you are installing the content applications on a member of a cluster (other than the master), select **Secondary Cluster Member** and then click **Next**.

Do not select this option unless the CSEE content applications have already been installed on the master member of the cluster.

### Read Documentation

Click **Next**.

### Server Installation Options

This window displays the list of CSEE content applications. The word “upgrade” appears next to the name of any product that is already installed.

Select the products that you want installed. Note that some applications are dependent on other applications being installed. See “[Product Dependencies](#)” on page 42 for more information.

If this is an upgrade, the applications that are already installed are already selected. You can then add to the list of options that are selected.

- CS-Direct 5.0.1
- CS-Direct Advantage 5.0.1
- CS-Engage 5.0.1
- Analysis Connector 5.0.1
- Commerce Connector 5.0.1

Click **Next**.

#### Cluster Notes

For a cluster installation, you must select the same installation options for each member in the cluster.

## Sample Site Options

**For development systems only.** Select the sample site options that you want to install.

FatWire recommends that you do **not** install the sample sites on a CSEE management or delivery system.

- To install a sample site and its asset types but with none of the sample assets for that site, select the appropriate options in the top section of the window.
- To also install the sample assets, elements, and site entries for the sites that you selected, select the appropriate options in the bottom section of the window.

If you want to work with the CSEE COM Interfaces samples on a development system, be sure to select the Hello Asset World sample site.

After you select the appropriate sample site options, click **Next**.

## Transact Connectivity Installation Options

Do one of the following:

- If you did **not** select Commerce Connector from the installation options in step 6, click **Next**.
- If you selected Commerce Connector from the installation options in step 6, click in the **Number of Stores for Transact** field and enter the number of stores. Then click **Next**.

## Configuration Options

Select the property files that you want the Property Editor to display during the installation, and then click **Next**.

#### Note

Typically there is no need to make changes to any of the property files so there is no need to select any of the options in this window.

## Install

Click **Install**.

A message about the location of an upgrade log file appears. If you are not upgrading, you can ignore this message.

Click **OK**.

A message reminding you to verify that the application server has been stopped appears.

Click **OK**.

The installation begins with a file copy and file deployment activity that can take several minutes.

## Warning (Application Server-Specific Window)

Eventually, the installation program displays a WARNING message that instructs you to verify several items and then to restart the application server. The steps that you take at this point depend on the type and version of your application server. Follow the instructions that are appropriate for your system before you click the OK button in this window:

- [WebLogic 7.1](#)
- [WebLogic 8.1](#)
- [WebSphere](#)
- [Sun ONE \(iPlanet\)](#)

### WebLogic 7.1

If your application server is **WebLogic 7.1**, complete the following steps:

1. Restart the admin server.
2. Start the managed server.
3. When the managed server is running once again, return to this Warning window and click **OK**.

#### Note

Be sure that the managed server has completely restarted before you click the **OK** button. If you continue with the installation before the managed server has started, the installation may fail.

The installation program continues with the installation.

Continue to [“Installation Successful”](#) on page 55.

### WebLogic 8.1

If your application server is WebLogic 8.1, you must now re-deploy the Content Server web application. Complete the following steps:

1. Restart the admin server.
2. Start the managed server.
3. Start the WebLogic Administrator console.
4. In the console tree, expand the Content Server domain.
5. Under the Content Server domain, select **Deployments > Web Application Module**.
6. Select the name of your Content Server web application.

7. Select the **Deploy** tab.
8. In the table for the managed server that is the target of the Content Server web application, click **Redeploy**.
9. Wait until you see the word “Success” displayed as the status of the deployment. Then, exit the Admin console.
10. Return to the installation Warning window and click **OK**.

The installation program continues with the installation.

Continue to [“Installation Successful”](#) on page 55.

## WebSphere

If your application server is WebSphere, then during the Content Server installation for WebSphere, you imported the `/ominstallinfo/app/ContentServer.ear` file into WebSphere. The CSEE content applications installation program then modifies the `ContentServer.ear` file as necessary for the applications that you are installing.

However, because the WebSphere application server does not automatically re-import the `ContentServer.ear` file when changes are made to it, you must delete it from the WebSphere console and manually import it before restarting WebSphere.

Complete the following steps when the CSEE content applications installation program displays the WARNING message about restarting the application server:

1. Start the IBM HTTP Server web server, if it is not already running.
2. Start WebSphere:
  - On UNIX:
    - a. Run the `startupServer.sh` script in the `/WebSphereInstallDir/bin` directory.
    - b. Verify that the server is running by viewing the `tracefile` in the `/WebSphereInstallDir/logs` directory. The server is ready when the last line of the file states: “server open for e-business.”

On Windows NT/2000:

- a. Display the services screen:  
**Settings > Control Panel > Services**
  - b. From the services screen, select **IBM WS Admin Server**.
  - c. From the services screen, click the **Start** button.
3. Start the WebSphere Advanced Administrative Console:

On UNIX, run the `adminclient.sh` script in the `/WebSphereInstallDir/bin` directory.

On Windows NT/2000, from the **Start** menu choose:

**Programs > IBM WebSphere > Application v. 4.0.1 > Administrator’s Console**

The WebSphere Advanced Administrative Console appears:

4. From the WebSphere Advanced Administrative Console, stop the Content Server application server.

5. From the WebSphere Advanced Administrative Console tree:
  - a. Navigate to **Enterprise Applications>ContentServerApp**.
  - b. Right-click `ContentServerApp`.
  - c. Choose **Remove** from the pop-up menu.
6. If a dialog box asks whether you want to export the application that you are deleting, choose **No/Cancel**.  
A confirmation message appears.
7. Click **Yes**.  
An informational message appears, stating that the application has been removed.
8. Click **OK**.
9. From the WebSphere Advanced Administrative Console tree:
  - a. Right-click `Enterprise Applications`.
  - b. Choose **Install Enterprise Applications** from the pop-up menu. The Install Enterprise Application Wizard appears.
10. From the **Specifying the Application or Module** panel:
  - a. From the **Browse for File on Node** drop-down box, choose the machine on which you are installing the Content Server application.
  - b. In the Application Name field, enter `ContentServerApp`.
  - c. In the Path field, browse to the `ContentServer.ear` file:  
`/csRoot/ominstallinfo/app/ContentServer.ear`
  - d. Click **Next**.
11. Click through the following series of panels **without** configuring them:
  - a. From the **Mapping Users to Roles** panel, click **Next**.
  - b. From the **Mapping EJB RunAs Roles to Users** panel, click **Next**.
  - c. From the **Binding Enterprise Beans to JNDI Names** panel, click **Next**.
  - d. From the **Mapping EJB References to Enterprise Beans** panel, click **Next**.
  - e. From the **Mapping Resources References to Resources** panel, click **Next**.
  - f. From the **Specifying the Default Datasource for EJB Modules** panel, click **Next**.
  - g. From the **Specifying Data Sources for Individual CMP Beans** panel, click **Next**.
  - h. From the **Selecting Virtual Hosts for Web Modules** panel, click **Next**.
12. From the **Selecting Application Servers** panel:
  - a. Click **Select Server**.
  - b. Select **ContentServer(*installNode*)**. Note that the *installNode* is the name of the machine on which you are installing the Content Server application.
  - c. Click **OK**.
  - d. Click **Next**. The "Completing the Application Installation Wizard" panel appears.
13. Click **Finish** to install the Content Server application on the specified node.

14. Click **OK** to dismiss the Completed Successfully dialog box.
15. Regenerate the WebSphere web server plug-in configuration file. (Note that each time you change the configuration of enterprise applications offered by an application server you must repeat this step.)
  - a. In the WebSphere Administration Console tree view, navigate to **Nodes > installNode**. The *installNode* is the machine on which you installed Content Server and the content applications.
  - b. Right-click on your *installNode*, and choose **Regen Webserver plug-in** from the pop-up menu.

#### Note

The WebSphere Administration Console may not inform you when the plug-in regeneration fails. If you suspect a problem occurred during regeneration, you can get more information about it by regenerating the configuration file from the command line. For example, enter the following UNIX command:

```
% /opt/WebSphere/AppServer/bin/Genplug-inCfg.sh -  
adminNodeName installNode
```

where *installNode* is the name of the application server machine on which Genplug-inCfg.sh runs.

16. If you run a single web server, and it is on the same machine as your application server, skip this step and continue. Otherwise, copy the new plug-in configuration file to each web server machine, as follows:
  - a. Locate the `/WebSphereInstallDir/config/plugin-cfg.xml` file on your application server machine. (This is the same file that you generated in the previous step.)
  - b. On each web server machine that serves pages for the application server machine, copy the `plugin-cfg.xml` file to the `/WebSphereInstallDir/config` directory.
17. If the web server is running, stop and restart it.
18. Restart the Content Server application server. From the WebSphere Administration Console tree, do the following:
  - a. Select **Nodes > installNode > Application Servers > ContentServer**
  - b. Right-click **ContentServer**.
  - c. Choose **Start** from the pop-up menu. (Wait for the application server to start—it may take a few minutes.)
19. After the application server is running, return to the Warning window and click **OK**.  
The installation program continues with the installation.

Continue to [“Installation Successful”](#) on page 55.

## Sun ONE (iPlanet)

If your application server is Sun ONE, then during the Content Server installation for Sun ONE, you deployed the `/ominstallinfo/app/ContentServer.ear` file. The CSEE content applications installation program then modifies the `ContentServer.ear` file as necessary for the applications that you are installing.

However, because the Sun ONE application server does not automatically re-import the `ContentServer.ear` file when changes are made to it, you must delete it from the Sun ONE console and manually import it before restarting Sun ONE.

Complete the following steps when the CSEE content applications installation program displays the WARNING message about restarting the application server:

1. Start the Sun ONE admin console and in the tree on the left, expand `<domain name>` `> App Server Instances >` and select the application server instance that was created for Content Server during the Content Server installation.
2. Under that application server instance, expand **Applications** and double-click on **Enterprise Apps**.
3. In the form on the right, select the check box next to the name of the Content Server application server instance.
4. Click **Undeploy**.
5. Click **Deploy**.
6. In form that appears, in the **File Path** field, browse to or enter the path to the `ContentServer.ear` file: `<installation directory>/ominstallinfo/app/ContentServer.ear`
7. Click **OK**.
8. In the **Deploy** form, verify that the name of the Content Server application server instance is correct and then click **OK**.
9. In the tree on the left, select the name of the Content Server application server instance.
10. Select the **General** tab
11. Click **Apply Changes**.
12. Click **Start**.
13. After the application server is running, return to this Warning window and click **OK**.

The installation program continues with the installation.

Continue to [“Installation Successful”](#) on page 55.

## Installation Successful

When the installation is done, the installer displays this window. Click **OK**.

## Install

Click **Exit**

## Complete and Test the Installation

To complete the installation, you must complete the following tasks, as necessary for your installation:

- If your web server is on a different host than your application server and Content Server, you must copy the contents of the `csRoot/futuretense_cs/Xcelerate` directory to the Content Server document root on the web server host (that is, the `/futuretense_cs/Xcelerate` directory on the web server host).
- If you installed Commerce Connector, you must verify various settings and configure the Commerce Connector Catalog Client.
- For all installations, to verify that the installation succeeded, log in to the Content Server interface and complete the test procedures listed in this section.

### Copy the Document Root Files to the Web Server

If your web server and your application server are not located on the same host, then during your installation of Content Server, you created a Content Server document root on the web server. Then after the Content Server installation, you copied the contents of the `csRoot/futuretense_cs` directory to the document root on the web server.

The CS content applications installed the static files that they need into the `csRoot/futuretense_cs/Xcelerate` directory. Copy the contents of this directory from the application server host to the `csRoot/futuretense_cs/Xcelerate` directory that you created on the web server host during the Content Server installation.

### Tune the Co-Resident CS-Satellite

Depending on the configuration of your CSEE system, you may want to tune the configuration settings for the co-resident CS-Satellite. See the book *Installing CS-Satellite* for information about tuning all the instances of CS-Satellite in your system, including the co-resident CS-Satellite.

### Additional Steps for the LDAP Plug-In

If you plan to store site and role names in your directory server rather than in the Content Server database, you must complete the following steps:

1. Start the Property Editor and open the `futuretense_xcel.ini` file.
2. Select the **xcelerate** tab.
3. Select the `xcelerate.sitesroot` property and specify the full distinguished name of the attribute that represents the root site node in your directory server. For example: `ou=Sites,cs=<companyname>,dc=com`
4. Select the `xcelerate.sitenameattr` property and specify the attribute for the LDAP nodes that specify the Content Server sites. Typically this is the first component in the full distinguished name that you set for `xcelerate.sitesroot`. For example: `ou`
5. Select the `xcelerate.usermanagerclass` property and set it to this value:  
`com.openmarket.xcelerate.user.LDAPSchemaUserManager`
6. Save your changes and exit the Property Editor.

## Additional Steps for Commerce Connector

If you selected the Commerce Connector installation option in step 6 of the procedure “[Install the Content Applications](#)” on page 49, complete the following steps:

### For Windows NT and 2000 Installations

1. Verify that the `installation-directory\CommerceEngine\cnt_40\lib` directory was added to the `PATH` setting in your application server startup script.
2. **WebLogic Only.** If you are installing on a WebLogic system, verify that the `CommerceConnector.jar` file was added to the `JAVACLASSPATH`, not the `WEBLOGICCLASSPATH`. (Otherwise, a Java exception occurs when the client attempts to communicate with Transact via SSL.)
3. Verify that the `C:\FutureTense\CommerceConnector.jar` file has been added to your `CLASSPATH`.
4. If you made any changes, stop and restart the system and the applications server to implement those changes.
5. Install the Transact plug-ins on your Transact 5 host. See [Chapter 5, “Configuring Commerce Connector.”](#)
6. Configure the Commerce Connector Catalog Client. See [Chapter 5, “Configuring Commerce Connector.”](#)

### For Solaris Installations

1. **WebLogic Only.** If you are installing on a WebLogic system, verify that the `install-dir/CommerceEngine/sun_56/lib` directory was added to the `LD_LIBRARY_PATH` setting in your WebLogic startup script.
2. **WebLogic Only.** If you are installing on a WebLogic system, verify that the `CommerceConnector.jar` file was added to the `JAVACLASSPATH`, not the `WEBLOGICCLASSPATH`. (Otherwise, a Java exception occurs when the client attempts to communicate with Transact via SSL.)
3. If you made any changes, stop and restart the application server to implement those changes.
4. Install the Transact plug-ins on your Transact 5 host. See [“Install the Transact Plug-in”](#) on page 64,
5. Configure the Commerce Connector client. See [Chapter 5, “Configuring Commerce Connector.”](#)

## Log In to the Content Server Interface and Create or Select a Site

Next, log in to Content Server interface to verify that the CS-Direct product starts correctly.

If you installed any of the sample sites, you can log in as one of the sample users. However, FatWire recommends that you do not install the sample sites on a management or delivery system. Therefore, if you are testing the CSEE installation on either a management or a delivery system, you must log in as the system default user named **admin**.

Complete the following steps:

1. Enter the URL: `http://your_server/Xcelerate/LoginPage.html`  
The CS-Direct **Login** window appears.
2. In the **Login Name** field, do one of the following:
  - If you installed either the Burlington Financial sample site or the GE Lighting sample site, enter `user_author`.
  - If you installed only the Hello Asset World sample site, enter `Coco`.
  - If there are no sample sites installed on this system, enter `admin`.
3. In the **Password** field, do one of the following:
  - If you entered `user_author` in the preceding step, enter `user` as the password.
  - If you entered `Coco` in the preceding step, enter `hello` as the password.
  - If you entered `admin` in the preceding step, enter `xceladmin` as the password.
4. Click **Login**.
5. Do one of the following:
  - If you installed only one of the sample sites, the Content Server interface opens to that site. Proceed to the next procedure, “[Create a New Asset](#)” on page 59.
  - If you installed both Burlington Financial and GE Lighting, select either site from the **Select Sites** window, and then proceed to the next procedure, “[Create a New Asset](#)” on page 59.
  - If you logged in as the admin user because there are no sample sites on this system, the Content Server interface displays the **Admin** tab only. Continue to the next step in this procedure and create a test site.
6. Create a site by completing the following steps:
  - a. Select **Admin > Sites > Add New**.
  - b. In the **Add New Site** form, enter a name and a description for a test site. Then click **Add**.  
The site is added to the site list on the tab.
7. Enable asset types for the site by completing the following steps:
  - a. Select and expand the new site, and then select **Asset Types > Enable**.
  - b. In the **Enable Asset Types** form, select all the asset types and then click **Enable Asset Types**.

8. Create a start menu item for the page asset type by completing the following steps:
  - a. At the top level on the **Admin** tab, select **Asset Types > Page > Start Menu**.
  - b. In the **New Start Menu Item** form, click in the **Name** field and enter **New Page**.
  - c. In the **Type** field, select **New**.
  - d. In the **Roles** field, select **GeneralAdmin**.
  - e. In the **Sites** field, select the site that you created in step 6.
  - f. Click **Save**.
9. Continue with the next procedure.

## Create a New Asset

Create a new asset to confirm that the installation was successful.

1. Click the **New** button in the toolbar at the top of the Content Server window.
2. Do one of the following:
  - If you are logged in to the Burlington Financial site, select **New Article**.
  - If you are logged in to the GE Lighting sample site, select **New Article (flex)**.
  - If you are logged in to the Hello Asset World sample site, select **New Hello Article**.
  - If there are no sample sites on this system, select **New Page** (the start menu item you created in step 8 of the previous procedure).
3. A **Create** form appears.
4. Enter information in the required fields (that is, any fields marked with a red asterisk).
5. Click **Save**.

CS-Direct displays a summary of the asset.

If you were able to log in to the Content Server interface, select or create a site, and create and save an asset successfully, you are finished testing this CSEE system.

## Cluster Installations

Remember that before you begin the installation on the next cluster member, you must complete all the steps in [Chapter 3, “Preparing to Install the CSEE Content Applications”](#) for that cluster member.

After you have installed the content applications on each member in the cluster, complete the following steps:

1. In the directory that is holding the storage directories for the cluster, create a directory named `sync` at the top level. You may have already completed this step as part of the Content Server installation.

For example, if the shared `elements` directory is located at `/export/home/ContentServer/elements`, you would create the following directory:

```
/export/home/ContentServer/sync
```

2. Stop all instances of the application server on all the cluster members in your cluster.
3. For each member of the cluster, open the `futuretense.ini` file and set values for the following properties:
  - `ft.sync` — set this to a value that represents the cluster. One logical name is the name of the cluster in the application server. For example, if you are using WebLogic and the name of the WebLogic cluster is `CScluster`, it's a good idea to set the value of the `ft.sync` property to `CScluster`.
  - `ft.usedisksync` — specify the location of the `sync` folder that you created in step 1 of this procedure. For example, `/export/home/ContentServer/sync`

The values of these properties must be the same for each member of the cluster.

4. Make sure that the value of the following properties in the `futuretense.ini` file is the same for each member:
  - `cs.timeout` property, **Basic** tab
  - `ft.filecheck` property, located on the **Resultset Caching** tab. This should be set to `no` for each member of the cluster.
5. Also, for each member of the cluster, make sure that the following properties in the `futuretense.ini` file point to a location within the shared directory that is holding the storage directories for the cluster:
  - `cs.pgcache` folder, **Compatibility** tab
  - `cs.pgexport` folder, **Export/Mirror** tab
  - `cs.xml` folder, **Misc** tab
6. For each member of the cluster, log into the Content Server database with CS-Explorer. In the `SystemInfo` table, scroll to the `SystemPageCache` table and set the value in the `defdir` column to the same location as the value set for the `cs.pgcache` folder property in `futuretense.ini`.
7. If you are using CS-Engage, open the `visitor.ini` file and verify that the value of the `vis.genclasspath` property is set to a location within the shared storage directory.
8. If your application server is WebLogic, be sure to check the book *Installing Content Server with BEA WebLogic Server* for details about the WebLogic cluster. Especially if you are using WebLogic 7.1.

9. Test the cluster. For example, turn on debugging and tail the WebLogic log file. Then open multiple browser windows and call the same page repeatedly in each window until you can verify that each cluster member has responded to the page request.

## Next Step

If this is an upgrade installation, return to the *Upgrading to CSEE 5.5* guide.

After the software is installed on this CSEE system, the site administrators, system administrators, and developers design and create the sites and continue configuring the system. They complete tasks such as the following:

- Create a site
- Create basic and flex asset types
- Configure your asset types
- Configure revision tracking
- Add users and roles
- Configure workflow
- Configure publishing destinations
- Configure the search engine
- Design the visitor information tables for Analysis Connector

For complete information about these tasks, see the *CSEE Administrator's Guide* and the *CSEE Developer's Guide*.

## Troubleshooting

If the installation failed, you can review the information in the following places to determine a possible cause:

- The log file in the scroll pane of the Installation window
- Window in which you started the installation
- Content Server and CS-Direct debug files:  
FutureTense/futuretense.txt
- The install log:  
`/installation-directory/ominstallinfo/install_log.log`

The following sections contain information to help you resolve specific installation problems.

### Web Server

#### The Web server is not running or is using an incorrect port

Verify that the web server is running and is accessible from the machine on which you are installing.

### **The Web root is not present**

Verify that the necessary web root settings have been added, as described in the *CSEE Administrator's Guide*.

## **Application Server**

### **Could not connect to mirror target server**

If you get this error message, it is most likely that the application server is not running.

On UNIX, stop the application server manually; then restart and resume the installation.

On Windows NT, you must reboot.

If you get this error message with a WebLogic installation, verify the following:

- The web server is running.
- The WebLogic plug-in to Netscape is configured correctly.
- The WebLogic application server is not running.

## **Home Directory or Home Drive**

### **Problems with permissions**

On UNIX, verify that you have permissions to add directories to the target machine.

On Windows, make sure your home drive is set to a local, writeable drive.

## Chapter 5

# Configuring Commerce Connector

Commerce Connector provides a high-level interface between CS-Direct Advantage and a remote Transact 5 e-commerce system. CS-Direct Advantage developers call this interface through a set of XML and JSP tags, and thus remain shielded from the underlying details of communicating with Transact.

The Commerce Connector provides Transact functionality for the following:

- Order processing for one or more sellers
- Managing payment accounts
- Registering new customers
- Authenticating existing customers

This chapter describes how to configure Commerce Connector. It contains the following sections:

- [Overview](#)
- [Install the Transact Plug-in](#)
- [Configure Commerce Connector](#)

## Overview

The Commerce Connector application has two parts:

- Transact plug-ins, which are typically installed on the Transact front host. You can use Commerce Connector with Transact version 5.0 only.
- The catalog client, which is installed on the CS-Direct Advantage host. You must have CS-Direct Advantage installed to use Commerce Connector.

Commerce Connector provides CS-Direct Advantage with an interface to a remote Transact system. CS-Direct Advantage provides XML and JSP tags that you use to implement the Commerce Connector functionality. The GE Lighting sample site provides an example of a shopping cart that can interact with with a Transact system through Commerce Connector.

To install and configure Commerce Connector, you complete the following general steps:

1. Install the catalog client software on the host machine where CS-Direct Advantage is installed. Typically, you install it with CS-Direct Advantage; that is, you select Commerce Connector from the installation options while you are installing CS-Direct Advantage. You can also install it after you install CS-Direct Advantage. See [Chapter 4, “Installing the CSEE Content Applications.”](#)
2. Install the Transact plug-ins on the host where the Transact 5 transaction server is installed. See the next section, [“Install the Transact Plug-in,”](#) for details.

## Install the Transact Plug-in

The Transact Plug-in gives your Transact 5 host the ability to communicate with the Catalog Client on the CS-Direct Advantage host. CS-Direct Advantage developers can then communicate with Transact 5 through a set of XML and JSP tags that are included with CS-Direct Advantage.

You install the Transact Plug-in on the Transact 5 host that communicates with the Catalog Client. The Transact host is the Solaris machine that hosts the transaction server. In a dual-host installation, it is typically the front host.

1. The installation for the Transact plug-in is in the CSEE content applications kit. Untar the kit on the Transact host and then change directory to:

```
xcelerate/Commerce/Transactplug-ins
```

2. Enter `./setup`
3. Follow the prompts. For most installations, you won't need to change the defaults.

### Note

Be sure to install the Transact Plug-in on the host where the transaction server is installed.

## Sample Installation

```
Solaris> ./setup
```

```
Enter full path to Transact installation directory
[/local01/hawk/8200/front/Transact]: <Enter>
```

This script will install the Transact plug-ins that are required by the Commerce Engine. It saves a backup of the registry in:

```
/local01/hawk/8200/front/Transact/conf/registry.asc.backup
```

The script also ensures that all of the Buyer Profile fields are enabled for ClassB lookups, as this is required by the Commerce Engine. It will also make sure that the Order Entry API service is enabled.

### IMPORTANT NOTE:

For optimal performance, you should enable the order-entry.cgi program as a FastCGI application. The FastCGI Settings are configured via the Transact Console under the Setup tab.

```
Proceed? [n]: y
```

```
Registering the plug-ins...
Installing DTDs...
Installing plug-in message catalogs...
Adding WebSessionCSCookie registry keys for Default pipeline...
Adding WebSessionCSCookie registry keys for Subscription
pipeline...
Adding Remote API AuthService registry keys...
Adding Remote API PurchaseSummary registry keys...
Adding Remote API Payment Account registry keys...
Enabling all required Transact features...
About to commit registry changes...
Running CSEEdit to add "Share" keys to the database...
This will take a few minutes. Please be patient...
CSEEdit -i /local01/hawk/8200/front/Transact/conf/registry.asc
... installation complete.
```

## Configure Commerce Connector

Before you can enable items for commerce in your catalog using the Commerce Connector functions of CS-Direct Advantage, you must generate and download secret keys files from the Transact system.

To generate these keys, you use the following key management utilities:

- `keyadmin` — the command-line equivalent of the Host Administrator Registration wizard. You can use it to manage public key database files.
- `keygen` — the command-line equivalent of Secret Key Generation. You can use it to generate secret keys and upload them to the Transact system.

The Commerce Connector installation puts these utilities in the following locations:

Operating System	Pathname
Solaris	<code>install-dir/sun_56/bin/keyadmin</code>
	<code>install-dir/sun_56/bin/keygen</code>
Windows	<code>install-dir\cnt_40\bin\keyadmin.exe</code>
	<code>install-dir\cnt_40\bin\keygen.exe</code>

## Sample Key Generation

This section describes the typical steps that are performed to generate secret keys on a Solaris system.

For additional help, see the following Transact SecureLink documentation:

- *SecureLink CommerceOperator User's Guide*
- *Using SecureLink Commerce Toolkit*

Following are the general steps you take to generate the secret keys:

1. Use `keyadmin` to create a public key database, generate a self-signed certificate, and generate a certificate request that is used for certificates from a certifying authority (CA) such as VeriSign. For example:

```
install-dir/bin/keyadmin -regreq self-signed.cert -keydb
public-key.db -dn "CN=CommerceEngine, O=OMKT, OU=Engineering,
C=US"
```

The keyfile "public-key.db" does not exist.

Do you wish to create it? (y/n) **y**

Do you wish to add the default certificates to this keyfile?  
(y/n) **y**

Database does not currently have a passphrase associated with it.

Enter passphrase:

Re-enter new passphrase:

Random data is required to perform a cryptographic operation.  
Please enter some random text on the keyboard (repeated keys are ignored).

```

Done
Generating keypair... Done
Are you sure you want to add this new keypair? (y/n) y
New keypair successfully added
PEM format certificate request written to file "self-
signed.cert"
Certificate request written to file "cert-req.txt"
Saving key database "public-key.db"... Done

```

2. Insert the self-signed certificate into the public key database (this can be replaced at a later date with a certificate signed by a CA). For example:

```

install-dir/bin/keyadmin -addcert self-signed.cert -keydb
public-key.db -force
Are you sure you want to add this certificate? (y/n) y
Attempting to add self-signed certificate
Certificate successfully added.
Saving key database "public-key.db"... Done

```

3. Create a host administrator (keymaster) account on Transact.

Open a new browser and enter the following URL:

```

http://transact-front-host/tms-ts/bin/
userinfo.cgi?group=k&op=new

```

In the Transact keymaster registration form, supply the relevant information and paste the self-signed certificate from step 2 into the input box. This can later be updated with a certificate signed by a CA.

4. Request stores from Transact.

On the same page, fill in the number of stores that you want to enable and send the request to Transact.

5. Allocate these stores to the host administrator, as follows:

- a. Log in to Transact as an administrator.
- b. Select **Stores > Allocate**.
- c. Allocate the stores to the newly registered host administrator.

6. Create a keygen configuration file (`km.conf`) similar to the following and copy it to the `/conf` directory. For example:

```

# km.conf
#
# Note: the password field is not present (nor should it be)
# in this file
#

# These values are specific to your site.
km set dn {CN=CommerceEngine, O=OMKT, OU=Engineering, C=US}
km set svc_host {release.openmarket.com}
km set svc_port {8081}
km set svc_user {enginekeymaster}
km set keydb {<base>/CommerceEngine/secrets/public-key.db}
km set skey_save_path {<base>/CommerceEngine/secrets/key.stuff}

```

```
# These values are fixed (Do not edit).
km set svc_cgi {/tms-ts/keymaster/keyload.cgi}
km set skey_save_fmt {flat}
km set skey_types {O R}
```

7. After the Transact administrator has allocated stores, secret keys can be generated via keygen using the keygen configuration file. This command generates the symmetric secret keys, uploads them to Transact, and saves them to their respective flat files (flat\_O.kf and flat\_R.kf) located in the directory defined in km.conf (skey\_save\_Path).

The following is sample output:

```
release/cengine_T3.0.0/sun_56/bin/keygen> keygen -conf km.conf -
password <passphrase>
[Tue Mar 7 13:34:42 2000] - The Service Operator's Distinguished
Name and
[Tue Mar 7 13:34:42 2000] - Issuer Distinguished Name are NOT
present
[Tue Mar 7 13:34:42 2000] - in your configuration file (km.conf)
[Tue Mar 7 13:34:42 2000] - This is required for further
operation.
[Tue Mar 7 13:34:42 2000] - If you are not sure these values are
correct,
[Tue Mar 7 13:34:42 2000] - please check with your Service
Operator.
[Tue Mar 7 13:34:42 2000] - svc_dn {CN = OM-Transact Key Service
(768-bit),
OU = Persona Certificate, O = "RSA Data Security, Inc.", C = US}
[Tue Mar 7 13:34:42 2000] - svc_issuer {OU=Persona Certificate,
O="RSA Data Security, Inc.", C=US}
Would you like to add the Service Operator's DN and Issuer DN to
your config file (y/n) ? y
[Tue Mar 7 13:35:04 2000] - Retrieving the Stores (and Keys) from
the Service ...
[Tue Mar 7 13:35:09 2000] - Generating new Secret Keys based on
the Stores/Keys retrieved from the Service ...
[Tue Mar 7 13:35:09 2000] - Uploading the Secret Keys to the
Service ...
[Tue Mar 7 13:35:18 2000] - Loading the local copy of the Secret
Keys ...
[Tue Mar 7 13:35:18 2000] - Writing <Offer> keys to file :
/udir/wabraham/key.stuff/flat_O.kf
[Tue Mar 7 13:35:18 2000] - Writing <Receipt> keys to file :
/udir/wabraham/key.stuff/flat_R.kf
```

8. Register as the seller.

Open a new browser and enter the following URL:

```
http://transact-front-host/tms-ts/bin/
userinfo.cgi?group=m&op=new
```

Then register as a new merchant on the Transact seller registration page .

9. Assign the new stores to the seller.

Log in to Transact as the keymaster and assign the new stores to the seller.

**10.** Configure the store.

Log in to Transact as the seller and configure the store for payment method, etc.

**11.** Copy the keyfiles from *install-dir/CommerceEngine/Secrets/key.Stuff* to *install-dir/CommerceEngine/Secrets/*, where Commerce Connector can find them.



## Chapter 6

# Reinstalling and Uninstalling CSEE Content Applications

This chapter describes how to reinstall and uninstall the CSEE content applications.

It contains the following sections:

- [Reinstalling the CSEE Content Applications](#)
- [Uninstalling the CSEE Content Applications](#)

## Reinstalling the CSEE Content Applications

After you have successfully installed some or all of the CSEE content applications, you may decide to run the installation program again for any of the following reasons:

- To install another sample site on a development system
- To install an additional application
- To restore an installation to its original state

Be sure that you review this section and back up your system before you reinstall.

### What Happens During a Reinstallation?

When you run the installation program again for any reason, the installation program reinstalls everything that is already installed. While it does not write over any of your data, it does overwrite all the CSEE elements and .jar files. It reinstalls any sample sites that have already been installed on the system, restoring them to their original state.

The installation windows are slightly altered: while you can add components, you cannot clear the selections that reflect the components that are already installed. In other words, you cannot specify that only your new selections should be installed.

### Backing Up Your System

Before you run the installation program again, be sure to back up any changes that you have made. For example, be sure that you back up the following items if you have modified them:

- Elements in the `AssetStubElementCatalog`
- Sample site elements and page entries
- Sample site assets
- Sample site administrative configuration (roles, users, tabs, and so on)
- Default workflow actions, conditions, and email objects

### Running the Installation Program to Reinstall

To reinstall the CSEE content applications, complete the following steps:

1. For Windows platforms, close all open browsers.
2. Shut down the application server.
3. Turn off Content Server and application server debugging. See [“Disable Debugging”](#) on page 44.
4. Do one of the following:
  - On Solaris or AIX, access the Shell command prompt.
  - On Windows NT or Windows 2000, access the DOS command prompt.
5. Change the directory to `xcelerate`.

6. Do one of the following:
  - For Solaris or AIX, enter:  
`./csinstall.sh root_directory`  
 For example, if Content Server is installed in a directory named  
`/export/home/ContentServer`, enter the following:  
`/csinstall.sh /export/home/ContentServer`
  - For Windows NT or Windows 2000, enter:  
`csinstall root_directory`  
 For example, if Content Server is installed in a directory named  
`c:\ContentServer`, enter the following:  
`csinstall c:\ContentServer`
7. In the **License** window, review the Agreement. Select **Yes** to accept or **No** to exit the installation, and then click **Next**.
8. In the **Select Products** window, select **Content Server Applications 5.0**, and then click **Next**.
9. In the **Select Operation** window, select **Install/Upgrade** and then click **Next**.
10. In the series of installation windows that appear, make any additions to the original selections. Previously selected options are displayed in gray text that cannot be edited, followed by the phrase “**Refresh Selected**.” Items marked as **Refresh Selected** are items that will be reinstalled by the installation program.
11. When you reach the final window, click **Install**.  
 A message about the location of an upgrade log appears. You can ignore this message.
12. Click **OK**.  
 The installation begins with a file copy and file deployment activity that can take several minutes. Eventually, the installation program displays a **WARNING** message that instructs you to verify several items and then to restart the application server.
13. Do one of the following:
  - If your application server is **WebLogic**, start the application server. When the application server is running once again, return to this installation window and click **OK**.

#### Note

Be sure that the application server has completely restarted before clicking the **OK** button. If you continue with the installation before the application server has started, the installation may fail.

- If your application server is **Sun ONE**, you must complete extra steps before you start the application server. Go to “[Sun ONE \(iPlanet\)](#)” on page 55.
  - If your application server is **WebSphere**, you must complete extra steps before you start the application server. Go to “[WebSphere](#)” on page 52.
14. In the **Installation Successful** window, click **OK**.
  15. In the **Install** window, click **Exit**.

## Uninstalling the CSEE Content Applications

When you choose the uninstall option from the CSEE installation program, it removes **all** of the CSEE applications that are installed on the system. That is, you cannot specify that you want one application removed but the others to remain.

### Caution

The uninstall program **removes** all the CSEE content applications, as well as **the data in the Content Server database**. If you want to keep your data and uninstall the application only, you must **back up** your Content Server database.

To remove the CSEE content applications from a system, complete the following steps:

1. For Windows platforms, close all open browsers.
2. Shut down the application server.
3. Turn off Content Server and application server debugging. See [“Disable Debugging”](#) on page 44.
4. Do one of the following:
  - On Solaris or AIX, access the Shell command prompt.
  - On Windows NT or Windows 2000, access the DOS command prompt.
5. Change the directory to Xcelerate.
6. Do one of the following:
  - For Solaris or AIX, enter:  

```
./csinstall.sh root_directory
```

For example, if Content Server is installed in a directory named `/export/home/ContentServer`, enter the following:  

```
/csinstall.sh /export/home/ContentServer
```
  - For Windows NT or Windows 2000, enter:  

```
csinstall root_directory
```

For example, if Content Server is installed in a directory named `c:\ContentServer`, enter the following:  

```
csinstall c:\ContentServer
```
7. In the **License** window, review the Agreement. Select **Yes** to accept or **No** to exit the installation, and then click **Next**.
8. In the **Select Products** window, select **Content Server Applications 5.0**, and then click **Next**.
9. In the **Select Operation** window, select **Uninstall** and then click **Next**.

The installation program removes the CSEE content applications that are installed on this system.

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