Microsoft® Content Management Server 2001

Setup Guide

Microsoft®

Information in this document, including URL and other Internet Web site references, is subject to change without notice. Unless otherwise noted, the example companies, organizations, products, domain names, e-mail addresses, logos, people, places and events depicted herein are fictitious, and no association with any real company, organization, product, domain name, e-mail address, logo, person, place or event is intended or should be inferred. Complying with all applicable copyright laws is the responsibility of the user. Without limiting the rights under copyright, no part of this document may be reproduced, stored in or introduced into a retrieval system, or transmitted in any form or by any means (electronic, mechanical, photocopying, recording or otherwise), or for any purpose, wihout the express written permission of Microsoft Corporation.

Microsoft may have patents, patent applications, trademarks, copyrights, or other intellectual property rights covering subject matter in this document. Except as expressly provided in any written license agreement with Microsoft, the furnishing of this document does not give you any license to these patents, trademarks, copyrights, or other intellectual property.

© 2001 Microsoft Corporation. All rights reserved.

Microsoft, Windows, Windows NT, MSDN, Site Server, Active Directory, NetShow, JScript, FrontPage, ActiveX, Visual Basic, and Visual InterDev are registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

The names of actual companies and products mentioned herein may be the trademarks of their respective owners.

Table of Contents

Using This Guide

What this guide is about v
Who should use this guide v
How to use this guide v
Conventions used in this guide vii
For more information viii

chapter 1 Getting Started

MSCMS 2001 system configurations supported 3
MSCMS 2001 database requirements 3
MSCMS 2001 file system requirements 3
MSCMS 2001 server minimum hardware requirements 3
MSCMS 2001 server software requirements 4
MSCMS 2001 Site Builder hardware requirements 5
MSCMS 2001 Site Builder software requirements 5
Microsoft Site Server LDAP requirements 6
Installation scenarios 7
About the MSCMS 2001 System Account 11
Configuring user access 12
Cookie authentication across a server farm 14

chapter 2 Configuring Microsoft Site Server

Site Server integration 17
Installing and configuring Membership Server 18

chapter 3 Installing the MSCMS 2001 Server and Site Builder

MSCMS 2001 server: installation summary 21
Installing the MSCMS 2001 server 22
Pre-installation note for MSCMS 2001 Site Builder 23
Installing the MSCMS 2001 Site Builder 24
Uninstalling MSCMS 2001 25
Troubleshooting tips 25

chapter 4 **Installing a Microsoft SQL Server Database**

Installation summary 29
Database backup considerations 30
Configuring security with SQL Server. 30
Requirements for installing the database 31
Installing the database 32
Upgrading the database 35
Using the DCA in a standalone mode 35

chapter 5 **Using the Server Configuration Application**

Overview 39
Specifying hierarchy-based or unique ID-based URLs 44
Pruning containers for viewing rights. 44
Mapping channel names to host header names. 45
Configuring background clean-up settings 45
Changing cache location and size. 48
Creating an additional Web entry point 49
Removing an entry-point. 49
Changing access options 51
Configuring Site Server and IIS on MSCMS 2001. 53
Using Active Directory services 57
Changing security settings 59
Displaying license information. 61

chapter 6 **Installing MSCMS 2001 Site Stager**

System requirements. 65
Creating the Destination User 66
Installing the MSCMS 2001 Site Stager 67
Automatically scheduling MSCMS 2001 Site Stager 68
Changing the Destination User 69

chapter 7 **Installing Content Connector**

System requirements. 73
System configurations supported by Content Connector 74
Installing Content Connector 77
Unpacking the sample site 78
Launching the Method Systems Business Desk. 85
Deleting a Content Connector site. 86
Uninstalling Content Connector. 88

chapter 8 **MSCMS 2001 Installation Error Messages**

MSCMS 2001 server installation 91
Database installation. 92
MSCMS 2001 Site Builder installation 93
Server Configuration Application 93

Glossary 95

Index 101

Using This Guide

What this guide is about

Welcome to Microsoft® Content Management Server 2001! The *MSCMS 2001 Setup Guide* steps you through installing and configuring the MSCMS 2001 server, MSCMS 2001 Site Builder, and database components. It also includes installation instructions for the MSCMS 2001 Content Connector for Commerce Server 2000 and the MSCMS 2001 Site Stager.

Who should use this guide

This guide is for customer installation teams, or those interested in MSCMS 2001 installation and configuration issues.

How to use this guide

This guide starts with the prerequisite information required for a successful MSCMS 2001 installation, then proceeds through the installation steps, configuration considerations, and error messages.

To do this...	Go to this chapter
Determine the system software and hardware requirements for the Microsoft ® Content Management Server 2001 system components. Understand the basic installation scenarios for Full UI, Basic, and Silent modes. Configure the MSCMS 2001 System Account and establish an Initial MSCMS 2001 Administrator account. Configure user access. Set up a guest user account.	Chapter 1, "Getting Started"
Configure Microsoft Site Server, and install and configure LDAP Membership Server. Authenticate subscribers using Site Server.	Chapter 2, "Configuring Microsoft Site Server"
Use the InstallShield® Wizard to do the file copying and setting up registry settings for the MSCMS 2001 server. Install the MSCMS 2001 Site Builder. Uninstall MSCMS 2001.	Chapter 3, "Installing MSCMS 2001 Server and Site Builder"

To do this...	Go to this chapter
Install the Microsoft SQL Server database to be used with MSCMS 2001, with the Database Configuration Application.	Chapter 4, "Installing a Microsoft SQL Server Database"
Use the Server Configuration Application (SCA) to do several configuration tasks, including changing the size and location of the cache, changing the URL type, setting security information, and viewing product license key information.	Chapter 5, "Using the Server Configuration Application"
Install the MSCMS 2001 Content Connector for Commerce Server 2000. Unpack the sample site, launch the Business Desk for the sample site, delete a site, and uninstall Content Connector.	Chapter 6, "Installing Content Connector"
Install MSCMS 2001 Site Stager, create or change a Destination User, and start the Task Scheduler service.	Chapter 7, "Installing MSCMS 2001 Site Stager"
Check the meaning and remedial action for error messages encountered during installation of the server, database, Site Builder, and the Server Configuration Application.	Chapter 8, "MSCMS 2001 Installation Error Messages"

Conventions used in this guide

We have used several document conventions in this guide to help you identify and find information.

Two components of the Microsoft® Content Management Server 2001, the MSCMS 2001 Site Builder and MSCMS 2001 Web Author, are always capitalized. However, references to the server and database are not capitalized: MSCMS 2001 server and MSCMS 2001 database.

Information that requires special attention comes in three types as described below: Caution, Tip, and Note.

! Caution
Caution means reader be careful. In this situation, you might do something that could result in loss of data or degradation of product performance.

Tip
Tips provide helpful suggestions for using Content Management Server 2001 effectively. Tips are not necessary to the basic understanding of the text.

Note
Note means reader take note. Notes emphasize or expand on important points in the main text around them. Notes can also provide information that applies only in special cases.

We also use typographical conventions to indicate specific information types in the documentation.

Convention	Usage in documentation
Bold	This style indicates menu items and buttons that must be clicked or selected. For example, "Once you have completed the form, click **Finish** to move to the next screen."
Italic	This style indicates the title of a book or manual. Most commonly it is used to refer to other documentation in the MSCMS 2001 information product suite.
`Monospace`	This style denotes source code and names of programming functions. For example, "When implementing image tags in HTML be sure to always use width and height attributes, as shown below." `<IMG SRC="PowerPanels.GIF" WIDTH="150" HEIGHT="150">`

For more information

The information products for Content Management Server 2001 are shipped on the product CD and include the following:

- *MSCMS 2001 Publishing API Help*: highly detailed reference information about the Publishing Application Programming Interface (API) exposed by the MSCMS 2001 server. This API is used by Web programmers in building an MSCMS 2001 site.
- *MSCMS 2001 Content Connector for Commerce Server 2000 Framework API Help*: detailed reference information about the framework for the MSCMS 2001 Content Connector for Commerce Server 2000 API. This API is used by Web programmers in building a Content Connector site.

The above information is in the form of compiled help (.chm) files.

The following information comes in Portable Document Format (PDF). You need Adobe Acrobat reader to access the PDFs—download a free copy from the Adobe site at `www.adobe.com`.

MSCMS 2001 Administrator's Guide: assists site administrators in the technical setup of the customer Web site using Content Management Server 2001.

MSCMS 2001 Page Template Designer's Guide: provides details about all aspects of template-based publishing, including creating templates for use in a multi-authoring environment.

MSCMS 2001 Site Programmer's Guide: provides comprehensive information for site programmers including the Web interface, the MSCMS 2001 Site Builder and MSCMS 2001 Web Author, and working with, and customizing the MSCMS 2001 Publishing API.

MSCMS 2001 Content Connector for Commerce Server 2000 Business Desk User's Guide: provides information about the MSCMS 2001 Content Connector for Commerce Server 2001 add-on and explains how to personalize your site's content. This includes creating and managing page profiles, personalized content objects, and rich content.

Check our corporate Web site at `www.microsoft.com/cmserver` for a variety of useful information.

Chapter 1

Getting Started

MSCMS 2001 system configurations supported

You can install the Microsoft® Content Management Server 2001 (MSCMS 2001) database on the same machine as the MSCMS 2001 server, or on a separate computer.

MSCMS 2001 database requirements

For Microsoft® SQL Server, versions 7.0 SP2, SP3, and 2000 are supported.

MSCMS 2001 file system requirements

You must have an NT File System (NTFS) as a prerequisite for installing MSCMS 2001. If your system is running with a File Allocation Table (FAT) system only, the installation will fail.

MSCMS 2001 server minimum hardware requirements

Although you can install Content Management Server 2001 with less than the minimum hardware and disk space requirements specified, we suggest you have the following minimum configuration for successful operation.

- Pentium III 800 with 512 MB RAM and an Ultra SCSI drive, with 500 MB of space reserved for the server
- 1 GB hard drive space for the database devices on the machine that will host the database
- 150 MB of free disk space at all times. Also, you must have a minimum 50 MB for the cache folder.



Note
The InstallShield® Wizard stops during installation if there isn't enough space on the destination and system drives for the files created by the program. For a successful, complete installation, ensure there is enough space on the system drive, the Program Files drive (for shared files), the destination drive (main installation of MSCMS 2001 files), and the cache drive.

MSCMS 2001 server software requirements

Note that the MSCMS 2001 server requires a machine that is configured to reside on a domain, rather than belonging to a workgroup.

Following are the MSCMS 2001 server software requirements. The "Supported versions" is the range of product versions, from the earliest version on which Content Management Server 2001 has been tested, to the most recently tested version. These are the versions on which you can install MSCMS 2001. There may be more recent released versions of the individual products, but we can't guarantee MSCMS 2001 will install properly on them.

Product Name	Suggested versions
Microsoft® Windows Server	Windows® 2000 (SP2) Server or Advanced Server
Microsoft Internet Information Server (IIS)	5.0. Note that IIS 5.0 is part of Windows 2000.
Microsoft Active Directory Service Interfaces (ADSI)	2.5
Microsoft SQL Server ODBC driver (included with MDAC)	3.7
Microsoft Data Access Components (MDAC)	MDAC 2.5 for Windows 2000.
Microsoft SQL Server (and Client Tools)	7.0 SP2, SP3; SQL 2000
Microsoft Internet Explorer	5.0, 5.5
Microsoft® Visual Basic® Scripting	5.1 or later (for viewing reports from the Site Deployment Manager). Installed as part of Internet Explorer. Or, download from Microsoft site //msdn.microsoft.com/scripting/vbscript/download/vbsdown.htm.

MSCMS 2001 Site Builder hardware requirements

The minimum requirements for Content Management Server 2001 Site Builder computers are:

- a Pentium II or equivalent processor
- 128 MB RAM
- 20 MB of disk space.

MSCMS 2001 Site Builder software requirements

Following are the software requirements for the Content Management Server 2001 Site Builder. The "Supported versions" is the range of product versions, from the earliest version to what we know to be the most recent version, on which you can install MSCMS 2001.

Product name	Supported versions
Microsoft Windows	Windows 98, Windows 2000 Professional, Windows ME
Microsoft Internet Explorer	5.0, 5.5
Microsoft Java Virtual Machine	5.0.2922.0. Note that Windows 2000 installs its own version of the JVM.

Subscribers to an MSCMS 2001 site can use any browser to view the site.

The MSCMS 2001 Web Author is compatible with: Windows 2000 Professional; Mac OS 8.6, 9.0; Sun Solaris™ 2.6; IE5.5; and Netscape 4.73.

We recommend that you not use Netscape on Solaris for working with the MSCMS 2001 Web Author.

Microsoft Site Server LDAP requirements



Note
Site Server is not supported in a server cluster (farm) environment.

Content Management Server 2001 can use Site Server's Membership Server to authenticate Lightweight Directory Access Protocol (LDAP) accounts. If your site is using the Site Server LDAP integration feature, you need the Personalization and Membership components of Microsoft Site Server on the computer hosting your MSCMS 2001 server. The LDAP server and MSCMS 2001 server can be installed on the same computer, or on separate machines.

Content Management Server 2001 supports Microsoft Site Server 3.0 SP3.

Installation scenarios

This section describes the installation situations typically encountered with the MSCMS 2001 server. Further information about the steps is in the indicated chapters.

- ***Chapter 3***: When you are working in a multiple-server environment (farm or cluster), you need to run the InstallShield Wizard and Database Configuration Application on ***each*** machine.
- ***Chapters 4***: The Database Configuration Application (DCA) is a utility for selecting and populating a Microsoft SQL Server database. In addition, the DCA is used to select the virtual Web site (for the MSCMS 2001 server and Server Configuration Application), and to select an MSCMS 2001 System Account and the Initial MSCMS 2001 Administrator for a new installation. After you have used the DCA for a new installation, you can also use it to configure the database.
- ***Chapter 5***: Several options and values that you set or change using the Server Configuration Application (SCA) utility can be applied globally—you can do this as a local administrator from a browser-based application.

New installation

For a first-time installation, do the following.

1 Run the installation setup program (setup.exe): For a first-time installation, the files and registry keys settings are installed.

2 Run the DCA: This sets up the Virtual Web site, configures security parameters, and installs and populates the SQL Server database.

3 Run the SCA: Configures server parameters, such as setting up container viewing rights, changing cookie settings, or changing the size of the memory caches. Refer to Chapter 5, “Using the Server Configuration Application” for complete information about configuration settings.

Upgrade installation

To upgrade to a new release of this product, do the following.

1 Run the installation setup program (setup.exe): Backs up existing files, verifies the database, and installs new files.

2 Run the DCA: Upgrades the database and sets up the SCA.

3 Run the SCA: Configures server parameters (as in the new installation procedure).

Note
To change only the database or configure server parameters, run the DCA or SCA in standalone mode.

Silent mode installation

The MSCMS 2001 server installation program ships on the CD as a .MSI package that can be used for scripted installations with the Windows Installer service installed. Windows 2000 comes with the Windows Installer already installed.

Note
The license agreement is automatically accepted when doing a Silent or Basic UI install.

Types of installs

You can install the MSCMS 2001 server in one of three modes:

- Full UI mode
- Basic mode
- Silent mode.

With Silent mode, no user interface is displayed during the install—no user interaction is required to complete the installation. However you may still need to do configuration, but this would be done separately.

Windows Installer command line options

Because the MSCMS 2001 server installation was created as a Windows Installer package, there are several Windows Installer command line options to control the execution of the installation. Also, several properties specific to MSCMS 2001 server can be specified through the command line. This allows the MSCMS 2001 server installation to be scripted, and then executed in Silent or Basic UI mode. The result is a potential reduction in effort required to install many identical servers, for example a clustered configuration.

Some of the Windows Installers command line options that can be used to control the installation process are as follows:

- /x - uninstalls the server
- /qn - installs the server in Silent Install (no UI) mode
- /qb - installs the server in Basic Install mode
- /qf - installs the server in Full UI mode.

Server installation properties

Several MSCMS 2001 server installation properties (listed) can be passed to the installation program through the command line.

- installation location
- cache size and location
- company name
- user name
- product license key.

These properties can also be set for a Full UI installation. In this case, the dialog boxes are populated with the values passed through the command line. The following table shows the status of the properties for the three install modes, where O is optional, M is mandatory, and N/A is not applicable.

Property name	Full	Basic	Silent	Default value if property not specified
INSTALLDIR	O	O	O	<%PROGRAM FILES%>\Microsoft Content Management Server\Server
SERVERLICENSEKEY	O	M	M	
COMPANY NAME	O	O	O	
USERNAME	O	O	O	User name for the operating system
CACHEDIR	O	O	O	<INSTALL DIR>\IIS_NR for a new install. For an upgrade, the existing cache directory path is preserved.
NR_CACHE_SIZE	O	O	O	50% of available disk space of <CACHEDIR> up to 2 GB for a new installation. For an upgrade, the existing cache size is preserved.

In the following table, the accepted value of the property is described as well as whether the parameter applies to a new install, an upgrade, or both.

Property name	Accepted value	Apply to New/ Upgrade	Note
INSTALLDIR	Valid path format	New	MSCMS 2001 server must be installed on a local drive in NTFS format.
SERVERLICENSEKEY	Exactly as shown in product license key letter	Both	
COMPANYNAME	Exactly as shown in product license key letter	Both	
USERNAME	Alphanumeric - up to 50 characters	Both	
CACHEDIR	Valid path format	New	NTFS format; local drive
NR_CACHE_SIZE	Numeric value	New	

Example batch file

Here is an example of a batch file used to install MSCMS 2001 server in Silent mode. For our example, the company name is XYZ Corp, a license was purchased, 500 megabytes of cache space is required, and the installation program is on D: drive.

```
d:\MSCMS Server.msi /qn SERVERLICENSEKEY="ABCD-EFGH-IJKL-MNOP" COMPANYNAME="XYZ
Corp" NR_CACHE_SIZE="500"
```

To uninstall, use the following: `msiexec /x d:MSCMS Server.msi`.

About the MSCMS 2001 System Account

Content Management Server 2001 uses a Windows 2000 domain user account to assign rights to security objects. During the MSCMS 2001 server installation, privileged rights to the Windows 2000 server machine are granted to a user account. Rights include access privileges required by the server and access to files on the hard drive. This account is referred to as the MSCMS 2001 System Account.

Because MSCMS 2001 is designed to work with a Windows 2000 domain's user accounts and must connect to a PDC emulator for Windows 2000 for information about users, the MSCMS 2001 server must be installed on a domain network environment. MSCMS 2001 does not support installation on non-domain network environments, such as peer-to-peer networks and workgroup networks. We recommend using an account on the same domain as the MSCMS 2001 computer for the MSCMS 2001 System Account.

The MSCMS 2001 System Account must have at least read privileges to all the domains, OUs, and containers, and the users within these that the system needs to authenticate. The MSCMS 2001 System Account must be a Windows 2000 domain user, and in an environment where the user is running Active Directory, the system administrator must enable NetBIOS over TCP/IP in order for the MSCMS 2001 install process to see the Windows 2000 domain users.

Refer to the section, "Requirements for installing the database" in Chapter 4 of this guide for information about assigning database user rights and roles.

Creating the domain user account for NT

Although you can choose any name, for convenience and clarity in the following procedure the domain user account is called "MSCMSUser."

1 Open Windows NT "User Manager for Domains" from Administrative Tools.

2 Create a Domain User named "MSCMSUser" and enter a password.

3 Ensure this account has the "Access this computer from network" right on all Primary Domain Controllers (PDC) that will be used with MSCMS 2001. If the account does not have this right on a PDC, MSCMS 2001 will not be able to view the list of users in that domain.

- Changes to the Domain User name and password must be made through the Security function of the Server Configuration Application (SCA). Refer to Chapter 5, "Using the Server Configuration Application."
- Changes to the SQL Server login name and password must be made through the Database Configuration Application (DCA), described in Chapter 4, "Installing a Microsoft SQL Server Database."

Creating the domain user account for Windows 2000

1 Open Windows 2000 "Active Directory Users and Computers" from Administrative Tools.

2 Create a Domain User named "MSCMSUser" and enter a password.

3 Ensure this account has the "Access this computer from network" right on all domain controllers (DC)* to be used with MSCMS 2001. If the account does not have this right on a DC, MSCMS 2001 can't view the list of users in that domain.

* DC is the term used for Windows 2000 (in previous versions this was referred to as the Primary Domain Controller or PDC).

Configuring user access

Content Management Server 2001 provides a secure work environment where the MSCMS 2001 administrator has explicit control over who can use what parts of the system.

Properly configured Windows 2000, Active Directory, and Site Server user accounts and working with MSCMS 2001 rights groups, allows you to control the level of access that users (both inside and outside of your organization) have to your site.

Selecting domains to use with MSCMS 2001

You can select domains with the Server Configuration Application (SCA). After the installation process, you can select users from the chosen domains, because any valid Windows 2000 user who can log on to the domain can be an MSCMS 2001 user.

Only domains in trust relationships with the Windows 2000 domain that the MSCMS 2001 System Account belongs to, can be authenticated by the MSCMS 2001 server when the system is running.

For NT users

Users from NT domains that don't have a trust relationship with the domain the MSCMS 2001 server is in, cannot be added as MSCMS 2001 users using the Site Builder, because the MSMCMS 2001 server won't be able to retrieve the list of users to add to the user role.

About the Initial MSCMS 2001 Administrator

When you are running the Database Configuration Application, you are prompted to browse for a Windows 2000 account to select as the Initial MSCMS 2001 Administrator in order to create a new database. You need to provide a password for this account. This administrator account is the only one with rights to log on to Content Management Server 2001 until other users are added through the Site Builder.

To view users on a domain, all MSCMS 2001 administrators, including the initial administrator, must have the "Access computer from network" right on that domain's DC. If your network includes several domains, the MSCMS 2001 administrators will require this right on the DC for each domain used with MSCMS 2001.

Before running the installation program, you should know the domain and name of your intended initial administrator. We recommend using separate accounts for the MSCMS 2001 System Account and the Initial MSCMS 2001 Administrator.

Creating a guest user account

A guest user account allows visitors from outside your Windows 2000 domain to view parts of your Web site.

To create a guest user account:

1 Open Windows 2000 "Users and Passwords."

2 Create a Domain User, using a name of your choice.

Using the Server Configuration Application (SCA), you can allow guest access to your site. Refer to Chapter 5, "Using the Server Configuration Application" for details.

Setting up the guest user account

After installing Content Management Server 2001, create a "Guest" subscriber rights group, add the guest user account to the group, and then give the group subscriber rights to the channels you want guests to have access to.

For more information on setting up rights groups, refer to the *MSCMS 2001 Site Administrator's Guide*.

Cookie authentication across a server farm

After setting up a multiple-server environment (server farm or cluster), the person who installed the servers must synchronize a cookie encryption key across all computers in the same cluster, using an import and export program. This is done by exporting the cookie encryption key from one server in the cluster and then importing the key to all other servers in the cluster.

To run the program, use Windows Explorer to navigate to `C:\Program Files\Microsoft Content Management Server\Server\Bin` and double-click **Managekey.exe**. Or, use the command line to navigate to the `C:\Program Files\Microsoft Content Management Server\Server\Bin` directory and type **Managekey.exe**.

1. Export the cookie encryption key from one server by clicking the "Export Key" button. At the file dialog box, enter the file to save the key to. If you don't save to a diskette, you'll get a security alert. You'll get a confirmation if the key has been successfully saved.
2. Go to the next server and using the "Import Key" command, select the file saved from step 1. The saved key is then imported to this server.
3. Repeat step 2 for every server in the cluster.

Chapter 2

Configuring Microsoft Site Server

Site Server integration

Content Management Server 2001 can allow Web sites to authenticate any users except the guest user through Microsoft Site Server (Membership Server).

Installation summary

The following summarizes the tasks required to install Content Management Server 2001 with Site Server integration. For each step, the relevant chapter in this guide is given.



Note
The Server Configuration Application cannot be installed on a Web site that is protected by Site Server.

1. Confirm that your MSCMS 2001 server meets hardware and software requirements (Chapter 1, "Getting Started").
2. Install and configure a Site Server LDAP Server (this chapter).
3. Install the MSCMS 2001 server files (and set registry settings) and install MSCMS 2000 Site Builder (Chapter 3, "Installing MSCMS 2001 Server and Site Builder).
4. Create a new database, install the database, and set up a virtual Web site for the Server Configuration Application (SCA) (Chapter 4, "Installing a Microsoft SQL Server Database" for Microsoft SQL Server).
5. Choose the Site Server option using the SCA Access tab (Chapter 5, "Using the Server Configuration Application").
6. Configure the Content Management Server 2001 IIS Web site to use Site Server for authentication (Chapter 5, "Using the Server Configuration Application").

About Site Server configuration instructions

In most cases, the installation instructions are the same whether or not the LDAP Server is on the same computer as the MSCMS 2001 server. The only significant difference is that if only one computer is used, only one Membership Server must be created. If multiple computers are used, they each require their own local Membership Server.

You need the Membership Server component of the Site Server on the MSCMS 2001 server if you are going to use LDAP authentication for subscribers on your Web site. IIS needs to connect to components of the Membership Server to authenticate users. An efficient method to achieve this is to have the Membership Server that is local to the MSCMS 2001 server refer to a remote Membership Server for LDAP users and organizational units.

Installing and configuring Membership Server

Ignore this section if you already have Site Server installed and have an LDAP Membership Server configured.

Configuring and creating a database for Site Server

The Membership Server needs a database to store user information. This database can be on the same computer as the LDAP server, or on another computer. The following instructions assume the use of a Microsoft SQL Server and database.

To configure Microsoft SQL Server for Site Server:

If you are using Microsoft SQL Server 7.0 with Site Server, use the SQL Server Network Utility to confirm that TCP/IP Sockets are being used (this is the default setting).

To create the SQL database:

For Microsoft SQL Server 7.0, see the Site Server 3.0 Release Notes for additional information.

Creating a Membership Server

Follow the instructions under "Personalization & Membership/P&M Installation Guide/Installing P&M/Configuring the P&M Server Computer to Work with SQL Server" in the Microsoft Site Server online documentation to create a new Membership Server on the LDAP server computer.

- When configuring the Membership Server, choose the Custom Installation option.
- Only the Active User Object (AUO) and LDAP services are required.
- Use the SQL database you created in the previous section when asked for a database. Select the option to use Membership Authentication rather than NT Authentication.
- Make note of the organization name and password for the administrator account. They will be required when configuring the Membership Server on the MSCMS 2001 server.

Configuring the Membership Server's LDAP service

If you do not choose anonymous access to your LDAP service, note the user name and password you choose. This information is used when installing the MSCMS 2001 server and adding LDAP users within the MSCMS 2001 Site Builder.

Next step in site setup

The next step in setting up a MSCMS 2001 site that is integrated with Site Server is to create a database and install the MSCMS 2001 server (Chapter 3, "Installing the MSCMS 2001 Server and Site Builder"). Proceed to Chapter 4 for instructions.

You will also need to use the Server Configuration Application (SCA) and follow the instructions for using Site Server authentication outlined in Chapter 5, "Using the Server Configuration Application."

Chapter 3

Installing the MSCMS 2001 Server and Site Builder

MSCMS 2001 server: installation summary

The InstallShield Wizard steps you through the basic installation, copying all required files and setting up registry keys. At the end of the installation, the Database Configuration Application (DCA) launches.

The DCA allows you to select the Content Management Server 2001 System Account, the virtual Web sites for the server and the Server Configuration Application (SCA), and then select or install the database.

After the database has been installed, you can configure the server (or servers) from the client browser using the Software Configuration Application (SCA), described in Chapter 5.

Note
The DCA will need to stop IIS. The InstallShield Wizard stops IIS for an upgrade and restarts it at the end of installation.

Software licensing

The three editions of Content Management Server 2001 are distributed as follows:

- Evaluation—automatically expires 120 days after you install it
- Developer—obtainable through the MSDN network
- Enterprise—this is the "selling" copy of the product.

For the Developer and Enterprise editions, you enter the product license key during the installation via the Customer Information dialog box.

Installation user requirements

You must be logged on using a domain account with administrator rights for the machine on which you'll be installing the MSCMS 2001 server. If you plan to use a trusted connection to configure the database in the DCA, the logged on user must also have dbo (database owner) rights to the database.

Note
If the MSCMS 2001 server installation ends prematurely, some registry settings and other components could remain on your machine. These components won't adversely affect subsequent installations.

Installing the MSCMS 2001 server

Insert the MSCMS 2001 product CD in the CD drive on a machine running Windows 2000. Double-click **setup.exe** in the product directory. The InstallShield Wizard presents a series of dialog boxes with the required action, as described in the following table.

Step	Dialog box title	Action
1	Welcome	Click **Next**.
2	License Agreement	Click the required button. If you choose to not accept the end user license agreement (EULA), the installation will not proceed.
3	3rd Party Software Requirements	Checks for the required operating system and 3rd party software (including client tools for any of the products). If your system does not meet the software requirements, the list of items indicates which component(s) is missing. Most of the third party components are included on the product CD. The installation will not continue if these requirements are not met. Click **Next**.
4	Customer Information	Enter user name and organization, and provide applicable product license key. Click **Next**.
5 *	**Database pre-upgrade scan**	**For upgrade scenario only—users must scan their database for potential upgrade problems.**
6	Destination Folder	Accept the default location or use the change button to select a new or target directory in which to install the MSCMS 2001 files. Click **Next**. This step checks for disk space (minimum of 100 MB required) in NTFS format. This dialog box is skipped for an upgrade installation. The upgrade is installed to the existing destination folder.
7	Disk Cache Folder	Select the cache location and size (in NTFS format). Click **Next**. This dialog box is skipped for an upgrade installation.
8	Ready to Install the Program	Indicates the installation is ready to start.

9	Installation notification	Indicates the installation is in progress.
10	InstallShield Wizard Completed	The Database Configuration Application launches. Click **Finish**.

*Step 5 appears only during an upgrade from a previous version.

Pre-installation note for MSCMS 2001 Site Builder

You must have Internet Explorer 5.0 (5.01 SP1), or IE 5.5 installed. See Chapter 1, "Getting Started" for a complete description of the Site Builder hardware and software requirements.

For Internet Explorer 5, ensure that the Local Intranet Zone security settings, located in the Internet Explorer Properties dialog box, do not have "Prompt" for the "Allow per-session cookies (not stored)" option. For IE 5.5 click **Tools > Internet Options > Security > Local Internet > Custom Level** to check the setting. The Site Builder won't be able to connect to an MSCMS 2001 server if it is set to Prompt.

Installing the MSCMS 2001 Site Builder

Insert the MSCMS 2001 product CD in the CD drive and double-click **MSCMS Site Builder.exe**. Or choose **Install Components > Install Site Builder** from the Unified Install. The installation program presents a series of dialog boxes as described in the following table.

Step	Dialog box title	Action
1	Welcome	Click **Next**.
2	3rd Party Software Requirements	Lists all software prerequisites, and whether or not they are met. The installation will not proceed until these prerequisites are present. Click **Next**.
3	User Information	Enter your name and company name. Click **Next**.
4	Choose Destination Location	Accept the default location or browse to another. Click **Next**.
5	Select Program Folder	Select a folder to appear in your Windows Start menu (program icon will be added). Click **Next**.
6	Enter Server Name	This is the name of the MSCMS 2001 server the Site Builder will connect to. Click **Next**.
7	Start Copying Files	Click **Next**.
8	Setup Complete	Choose whether to restart your computer now or later. You must restart your computer after installation in order for Site Builder to run. Click **Finish**.

Controlling which server you connect to

To control which server the MSCMS 2001 Site Builder connects to, do the following.

1 Right-click the shortcut that the InstallShield Wizard created on your desktop and click **Properties**.

2 Select the Shortcut tab and edit the server name that appears in the URL in the Target box to the name of the server you need to connect to.

3 Click **OK** to save the changes and close the Properties dialog box.

If you frequently connect to different servers, you can make copies of the shortcut and edit them to point to the servers you use.

Uninstalling MSCMS 2001

To uninstall Content Management Server 2001, you must have similar rights to those required for doing the installation, including being logged on using a domain account and having local administrator rights. You can uninstall by starting the InstallShield Wizard and selecting **Remove**.

Troubleshooting tips

In addition to checking Chapter 8 for a list of error messages, their causes or the context in which they occurred and suggested recovery actions, the following information may help if you have problems during the installation.

For MSCMS 2001 server

A cumulative log file is produced during the installation, with information from each upgrade added to the existing information and a time and date stamp and version number indicated. For a new installation, a new log file is created as part of the file creation step.

The log file at first will be in the Windows temp directory, and later be re-located to the parent directory of the MSCMS 2001 server.

For MSCMS 2001 Site Stager

If you uninstall the Site Builder on a machine that contains the Site Stager, Site Stager might not run properly. Uninstalling and reinstalling Site Stager solves the problem.

Chapter 4

Installing a Microsoft SQL Server Database

Installation summary

The following steps summarize the tasks required to install Microsoft® Content Management Server 2001 with a Microsoft SQL Server database. For each step, the relevant chapter in this guide is given.

1 Confirm that your MSCMS 2001 server meets hardware and software requirements (Chapter 1, "Getting Started").

2 Run **setup.exe** (Chapter 2, "Installing the MSCMS 2001 Server and Site Builder").

3 Create and configure a new Microsoft SQL Server database.

4 Install the database using the Database Configuration Application (DCA) (this chapter).

5 When the DCA is complete, it will launch the Server Configuration Application (SCA), if you choose to do so at this point. The SCA is a browser-based utility used to do configuration changes to the server. For a first-time install, you can use it to modify configuration settings.

Information in this chapter pertains to the three modes of running the DCA: new install, upgrade, and standalone.

About incomplete installations

Once a database has been populated or upgraded you cannot undo the changes to the database.

Basic information about the upgrade procedure is in this chapter, "Upgrading the database."

Database backup considerations

Back up the database after the initial installation. Then, back up regularly using your preferred method.

Configuring security with SQL Server

Content Management Server 2001 integrates with the security features of your Windows 2000 network. When using trusted or integrated security, for Microsoft SQL Server, the account used for the DCA operation must have dbo rights to the database.

Reserved keywords

Microsoft SQL Server 2000 uses reserved keywords for several functions and you should avoid using these for database naming. A list of these keywords is at the Microsoft site `http://msdn.microsoft.com/library/psdk/sql/ts_ra-rz_9oj7.htm`.

User naming conventions and Microsoft SQL Server

Follow these naming conventions for your Content Management Server 2001 accounts to ensure compatibility with Microsoft SQL Server.

- Ensure the combined total of characters for the MSCMS 2001 domain and user names does not exceed 30 characters.
- Avoid using names that have embedded spaces.
- Avoid using names that contain special characters such as the following:
  - hyphen (-)
  - period (.)
  - apostrophe (‘)
  - exclamation mark (!)
  - “at” sign (@)
  - per cent sign (%)
  - ampersand (&)
  - caret (^)
  - backslash (\ )

Requirements for installing the database

Installation user requirements

You must be logged on using a domain account with administrator rights for the machine on which you've installed the MSCMS 2001 server. Also, you'll need database owner rights, if you're using integrated security.

If you are going to be using a trusted connection, be sure that the db_datareader and db_datawriter roles have been applied (in the User properties of Database in the SQL Server Enterprise Manager). Furthermore, even if you don't intend to use a trusted connection, you need to use a local SQL Server login account which must also belong to these user roles.

A user who is going to run DCA to install or upgrade the database and who isn't a member of the sysadmin fixed server role, must be mapped to the dbo user in that database. This is because the database objects created during the install or upgrade are qualified with dbo instead of the user's name. Do this by executing the **sp_changedbowner** system stored procedure. Or, refer to SQL Server Books Online.

Installing the database

Note
The Database Configuration Application (DCA) may stop IIS during a first-time installation or an upgrade.

The following section steps you through a new database installation for Microsoft SQL Server. In this case, you are presented with all the dialog boxes. If you are doing an upgrade, you will get a subset of the dialog boxes.

First-time installation

The DCA is launched on completion of the InstallShield Wizard, or you can run the DCA from **Start > Programs > Microsoft Content Management Server**. The DCA presents a series of dialog boxes with the required action described in the following table.

Step	Dialog box title	Action
1	Welcome	Click **Next**.
2	Select a virtual site for hosting the Microsoft Content Management Server	Select an IIS virtual Web site for hosting the Content Management Server 2001 directories. Note that the Virtual Server area contains a list of all virtual servers defined by IIS. Click **Next**. You can also choose whether authoring is allowed on the MSCMS 2001 server. By default, authoring is allowed.
3	SCA Web Entry Point	Select an IIS virtual Web site to host the MSCMS 2001 Server Configuration Application (SCA). The selection will fail—installation won't continue— if the site chosen is protected by Site Server. Although you can use the same site as for the MSCMS 2001's initial Web site, we recommend you not do this (you'll get a warning message regarding this, or if the site is on Port 80). You also receive a warning if the SCA virtual Web site allows anonymous access or grants access by default. Click **Next**.

Step	Dialog box title	Action
4	MSCMS System Account	Click **Browse** to select the domain user to be the MSCMS 2001 System Account user. Enter the password for that account. The System Account must have read/write access to the database if using integrated security. Click **Next**. Note: You can also manually enter a domain and user name in this dialog box, especially if there many domains or many users in the specified domain, to save time. The DCA verifies that the MSCMS 2001 System Account user has rights to "logon locally" to this machine. If not, a dialog box opens with the option to grant these rights to this account. You must select **Yes** to proceed with the installation.
5	Select the database platform you wish to use	Ensure the MSCMS 2001 System Account chosen earlier has the necessary rights to the database you select in this step.
6	SQL Server Login	Enter the server name, login ID, and password. There is an option to "Use Trusted Connection" in order to use the MSCMS 2001 System Account to connect to the database. If you select this, the server connects to the database as the MSCMS 2001 System Account, so the System Account chosen must have read and write rights to the database. Also, the DCA uses the Windows logon user to populate the database. The logon user must have dbo rights to the database during database configuration. If SQL logon is used (you're not using the Trusted Connection), the server connects to the database using the SQL login user. The DCA also uses this SQL login user to configure the database. The SQL login user must have dbo rights in the database. Click the options button to provide information such as database name. Click **OK**.

Step	Dialog box title	Action
7	Database Population	Once an MSCMS 2001 database has been populated you cannot undo the change. Confirm that the SQL Server name and Database name fields contain the correct information. Click **Next** to populate the database with initial schema and data. This can take a few minutes to complete. If you are installing on an existing database, it will be upgraded if required. During the installation, the database will install as is, or will stop if the destination database is considered to be corrupt from an MSCMS 2001 perspective (e.g. old version of the database, which isn't technically "corrupt" but won't work in this installation). Also, if this is not a new database, a dialog box appears inquiring if you want to add a new administrator. If you click **Yes**, a new administrator can be added,
8	Select Initial MSCMS Administrator	Click **Browse** to select a Windows 2000 domain user account to be the Initial MSCMS 2001 Administrator account. Or, you can manually enter the domain and user information (depending on size of domain). Initially, this will be the only account that can log on to MSCMS 2001—use this account to set up MSCMS 2001 access rights and hierarchies. Enter a password. Click **Next**. Note that this is not the same account as the MSCMS 2001 System Account. This account is added to the database; the MSCMS 2001 System Account is not added. The Initial MSCMS 2001 Administrator account user must be a Windows 2000 domain user account (or an NT domain user account through a PDC emulator).
9	Committing changes	Progress message only. This can take several minutes.
10	MSCMS Site Stager Security Vulnerability	As per instructions on the screen. Pertains to potential security risk with the /NR/System/Staging directory used by MSCMS 2001 Site Stager.
11	Completion	The database installation process is complete. Click **Finish**. You have the option (it's the default) to launch the Server Configuration Application (SCA) at this time by checking the check box before clicking **Finish**.

Upgrading the database

For an upgrade to the database (not the first-time install), do the following steps only.

1 Launch the DCA from Windows **Start > Programs > Microsoft Content Management Server > Database Configuration Application**.
2 Select a database to use (if required). The current database is selected by default.
3 IIS will stop. Reminder: Clicking **No** exits the DCA.
4 The Site Stager security vulnerability dialog box may appears. Respond appropriately.
5 You are given the option to launch the SCA. Proceed as previously described.

Note
The DCA maps the NR virtual directory for the MSCMS 2001 virtual Web site to `<target-dir>\Server\IIS_NR`.

Using the DCA in a standalone mode

After a successful installation or upgrade, you may want to launch the DCA as a standalone utility. Then you can set up and configure the database, switch between existing databases, or add an Initial MSCMS 2001 Administrator. A configuration screen is provided for this task.

Chapter 5

Using the Server Configuration Application

Overview

In the Microsoft® Content Management Server 2001 system, the installation program itself includes only the steps for installing files and setting up registry key information. The remaining functions are carried out by the Database Configuration Application (DCA) and the Server Configuration Application (SCA).

This chapter describes the SCA and how to use it to complete the setup of your MSCMS 2001 system. This step can be done after you complete the InstallShield Wizard and install the SQL Server database. Tasks in the SCA can also be done by the site administrator in standalone mode at any time by launching the SCA and selecting the applicable tab.

Before you can load the SCA and configure any local or global properties, you must first authenticate as a Windows 2000 or Active Directory user with local administrator rights on the machine to be configured.

Tasks you can do with the SCA

You can do the following tasks with the SCA:

- select the URL type. Refer to Chapter 2, "Setting up Publishing: Creating Containers for Users" in the *MSCMS 2001 Site Administrator's Guide* for information about URL types.
- prune containers to establish viewing rights
- change the background cleanup settings
- change the location and size of the disk cache
- change the size of the memory cache
- set multiple Web entry points
- select or remove Window 2000 domains
- change user authentication (Windows 2000, LDAP—Site Server or Active Directory)
- change the MSCMS 2001 System Account
- change cookie settings
- turn guest access on or off
- view product license key.

Security Alert

We strongly recommend you run the SCA over a Secure Socket Layer (SSL) connection. If you are not operating this way, when the SCA is first launched a security alert screen is displayed that indicates you are using an insecure network connection. If this is of concern, have your administrator create a secure connection before continuing.

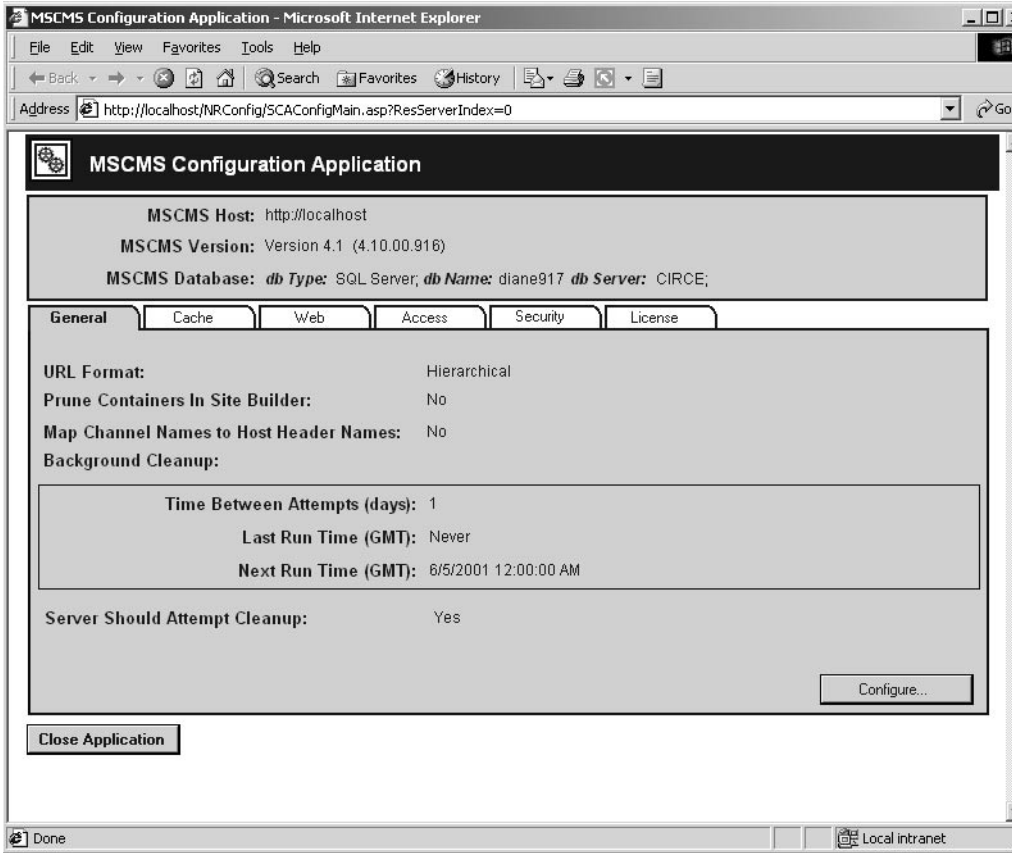
Launching the SCA

After completing a database install, the DCA automatically allows you to continue with the SCA. You can also load the SCA by typing the following URL from any machine that has network access to the MSCMS 2001 server: `http://<machine>/nrconfig` where < machine > is the machine or domain name that corresponds to the SCA Web site. If the Web site that was selected (during the DCA operation) uses a port other than 80 (for example, 5114), you must include this port number in the URL: `http://<machine>:5114/NRConfig`.

Note that if the Web site on which the SCA is installed is configured to deny access to all non-local IP addresses, then you need to change this setting before remote machines will be able to connect to the SCA—see the "IP address and domain name restrictions" tab of the "Directory Security" tab on the Internet Services Manager.

Alternately, you can launch the SCA from Windows by selecting **Start > Programs > Microsoft Content Management Server > Server Configuration Application**. The following screen is displayed.

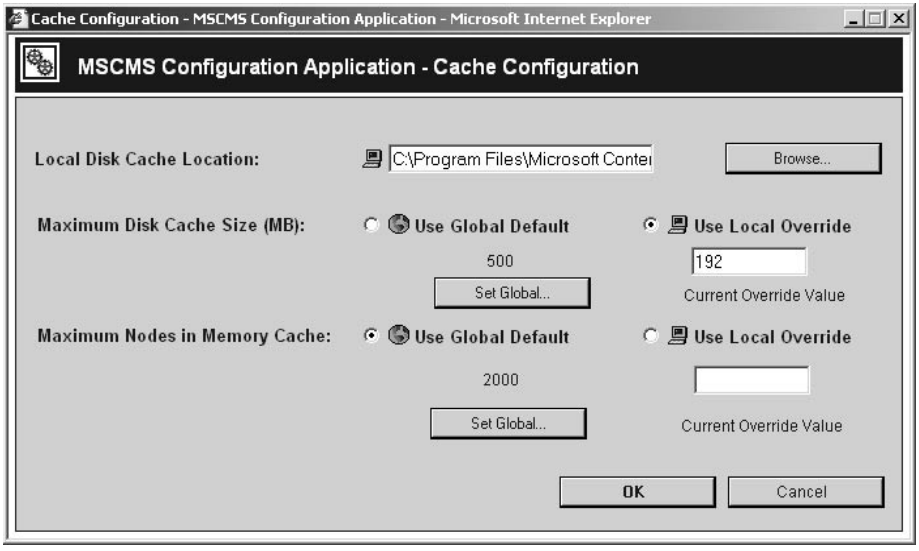
The table after this screen explains briefly what each tab does.


MSCMS Configuration Application - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites History
Address http://localhost/NRConfig/SCAConfigMain.asp?ResServerIndex=0
MSCMS Configuration Application
MSCMS Host: http://localhost
MSCMS Version: Version 4.1 (4.10.00.916)
MSCMS Database: db Type: SQL Server; db Name: diane917 db Server: CIRCE;
General
Cache
Web
Access
Security
License
URL Format: Hierarchical
Prune Containers In Site Builder: No
Map Channel Names to Host Header Names: No
Background Cleanup:
Time Between Attempts (days): 1
Last Run Time (GMT): Never
Next Run Time (GMT): 6/5/2001 12:00:00 AM
Server Should Attempt Cleanup: Yes
Configure...
Close Application
Done
Local intranet

Tab name	What it does
General	Default tab for the SCA. Displays the status of the following configuration options for the MSCMS 2001 server and provides access to the user interface used to modify these options: • URL format (hierarchical or unique ID-based) • prune container viewing rights • map channel names to host header names • background cleanup.
Cache	Displays the status of the cache options for the MSCMS 2001 server and provides access to the user interface which includes settings for the disk cache and memory caches. Includes a button to force the server to flush its memory cache.
Web	Displays the status of Web entry points for the MSCMS 2001 server and provides access to the user interface used to add or remove entry points. This includes details for all visible virtual servers with an indication of their status with respect to Content Management Server 2001.
Access	Displays the status of the access options for the MSCMS 2001 server and provides access to the user interface used to modify these options. Use this tab to modify the list of currently supported NT domains and a list of supported Active Directory containers or Site Server Organizational Units (OUs) if necessary.
Security	Displays the status of the Security options for the MSCMS 2001 server and provides access to the user interface used to modify those options. Use this tab to perform the following tasks: • modify MSCMS 2001 System Account information • modify Web cookie settings • modify guest access options.
Licenses	Displays the current user's product license key information.

Configuring global settings

You can configure global settings, as well as settings specific to one MSCMS 2001 server, whether it is part of a server farm or not. Two icons are used in the SCA to indicate if you can use a Global Default or override with a local setting. The Use Local Override indicator is in the form of a terminal and the Use Global Defaults is indicated by a globe as shown in the following screen example.



The global default is stored in the database and affects all servers that point to that database, unless individually overridden with a local setting.

Specifying hierarchy-based or unique ID-based URLs

Hierarchical URLs mimic a directory structure using your channel hierarchy and are what we recommend you use. Unique ID-based URLs generate numerical URLs to identify MSCMS 2001 items. To change the URL type, do the following.

1 From the General (default) tab, click **Configure**.
2 From the URL Format drop-down list, select **Hierarchical** or **Unique ID Based**.
3 Click **OK**.

You must start IIS after making this change.

Pruning containers for viewing rights

You can allow MSCMS 2001 Site Builder users to navigate all containers, even those they do not have rights to. Users cannot open containers they do not have rights to, but they can view them.

Or, by "pruning" containers, users can be allowed to see only the containers in which they have rights. The advantage here is that users see a tidy container hierarchy that is relevant only to them. However, they won't see containers in which they have rights, if those containers are nested under containers in which they don't have rights.

To configure how users see containers, do the following:

1 Click **Configure**.
2 From the Prune Containers in the Site Builder drop-down list, select **Yes** to have users see only the containers in which they have rights. Or, select **No** to have no container pruning done—users will see all containers, even those in which they have no rights.
3 Click **OK**.

Mapping channel names to host header names

! Caution
Be aware that if you select **Yes** for this function, you won't be able to stage your site.

This selection on the General tab indicates whether or not Content Management Server 2001 assumes that top-level channels should automatically be mapped as the root channel for a URL, with a host header name that is identical to the channel name. This feature can be used in environments where several Web sites, with different domain names, are being hosted on the same "live" (see Caution above) MSCMS 2001 server. The default setting is **No**.

With **Mapping channel names to host header names** enabled, every channel in the root channel becomes its own virtual Web site. Note that every channel directly under the root must be the name of a virtual Web site. A mixture of virtual Web site names and normal channels in the root channel is not supported.

When MSCMS 2001 generates URLs to an item inside a channel, it prefixes the URL with the name of the virtual site in which it is contained. On an incoming request to the server, MSCMS 2001 automatically chooses the appropriate channel based on the name that the user referenced in the URL.

Each of the virtual site names must be registered with a DNS server and point to the IP address of the live MSCMS 2001 server. You don't need to set up separate virtual sites under IIS.

Note
This feature is activated only during Published mode and affects only URL generation and parsing. All other aspects of MSCMS 2001 continue to work as before.

Configuring background clean-up settings

During day-to-day operation, some data becomes obsolete. Doing a server background cleanup helps conserve database space by removing non-referenced resources not currently stored in a Resource Gallery, and also expired postings.

In addition to indicating whether the server should attempt background cleanup, the General tab displays the following information regarding cleanup:

- how many days between clean-up attempts
- when the cleanup was run last
- when it is scheduled to run next.

You can globally set the number of days between clean-up attempts and when to schedule the last run so these options can be applied at one time to a server farm or cluster. Administrators can set a local override for the "Server Will Attempt Cleanup" value. The value specified applies only to the server through which the SCA is currently being accessed. All the servers in a server farm that reference the same database must use the same "time between cleanups" and "Hour to Attempt Cleanup" values. The default value is one day for the time between cleanups.



Note
The term "attempt" refers to the fact that several machines in a server farm can be configured to do a cleanup. However, only the first machine to try will actually be doing the cleanup; therefore the term "attempt" is applied to the overall activity.

At least one machine in a server farm must be configured to do cleanup, otherwise the database will grow beyond bounds.

To turn on and set up background cleanup, do the following:

1 Click **Configure** from the General tab screen.

2 From the drop-down list under Use Local Override, select **Yes** or **No** to turn on or off the attempt to do a background cleanup.

For a global default value instead, click the **Yes** button under the User Global Default title.

3 Click **Set Global** to specify a global value for the Time Between Attempts.

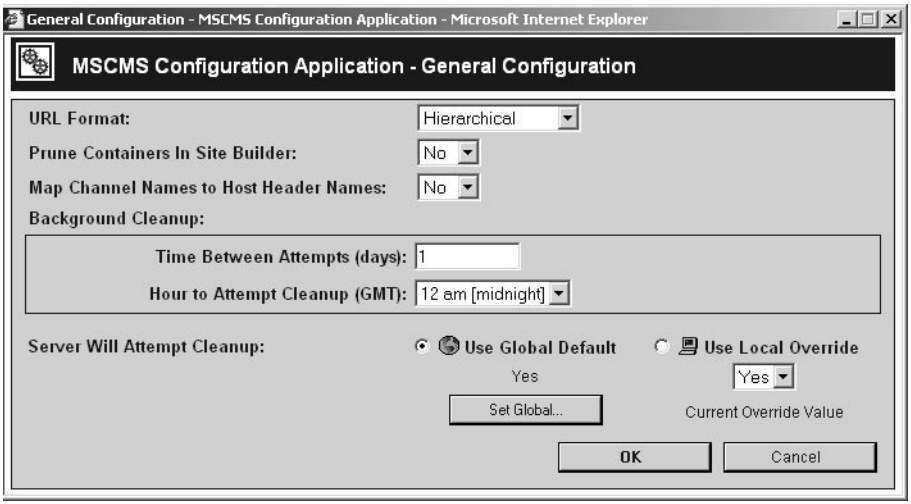
4 Specify a time value (GMT: in hour of the day). The default is one.

5 Click **OK** to return to the General Configuration window.

6 Click **Set Global** to specify a global default for the Hour to Attempt Cleanup, in Greenwich mean time (GMT).

7 Specify the time (in hours) from the drop-down list. Click **OK**.

8 Click **OK** to return to the General tab.



Tips

Server and database storage space

At least one gigabyte of storage space should be available to the MSCMS 2001 server and database at all times.

Expired postings

During cleanup, the MSCMS 2001 server purges expired postings.

Resources

As part of background cleanup, any resources not saved to the database by storage in a resource gallery, or "local" storage with a page or template, are purged from the database.

This means that if an author adds a resource to a page from anywhere other than the resource gallery (for example, by dragging the resource from the desktop onto the page), and later deletes or replaces that resource or page, the resource is purged from the database during cleanup.

Resources in a resource gallery remain there until explicitly deleted or replaced, even if not referenced by any page.

Versioned pages, postings, templates, and resources

Administrators now can purge all object revisions that were archived before a specific time using the time stamp (from within the Site Builder only).

For more information about versioning, see Chapter 6, "Using the Versioning Feature" in the *MSCMS 2001 Site Administrator's Guide*.

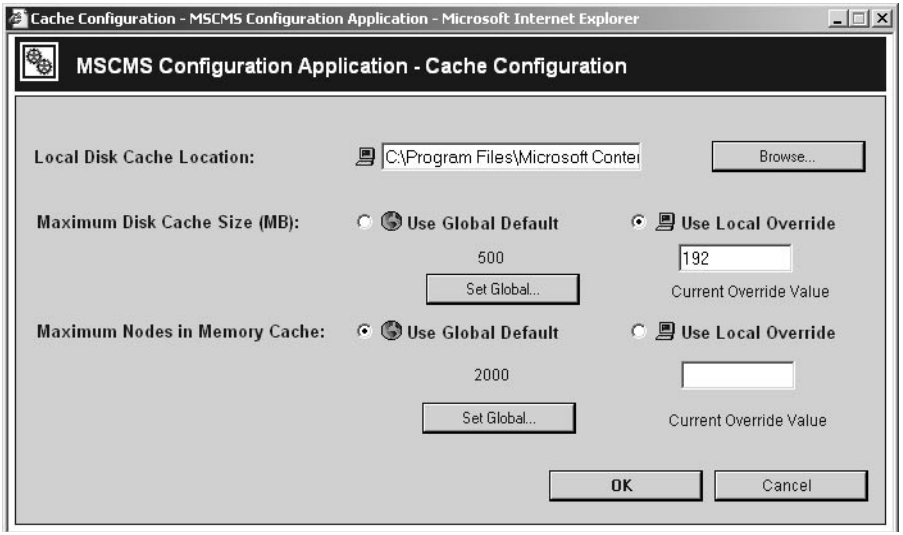
Changing cache location and size

Content Management Server 2001 uses a disk cache directory to cache templates and resources. We recommend you increase the size of this cache to enhance system performance, if you are operating a large site with heavy traffic.

If the server's disk cache directory is installed on the same drive as Microsoft Windows, consider moving the IIS log files from the default location in the Windows directory to another drive. This prevents log files from accumulating and causing problems with the ability to cache data. Or, move the disk cache directory to another drive.

There is a button for clearing the memory cache on the Cache tab screen (before you click the Configure button). The server caches "nodes" in memory so that it doesn't need to go to the database to get nodes that were recently retrieved. You can clear the cache if you believe you are seeing problems relating to the server's cache not being synchronized with the database. Doing the clear operation has a minor impact on performance.

1 To change the cache location, click **Configure** on the Cache tab, and browse to the new location. Click **OK**.



2 The minimum cache size is 50 megabytes. The maximum cache size is the currently available free space on the target drive—the target drive is the drive where the cache directory will be. The default is 50% of the maximum, up to two gigabytes. For example, the default cache size for a target drive with greater than four gigabytes of free space is two gigabytes.

Administrators can set either a local or global value for cache size.

3 Set the maximum nodes in memory cache—use either the global default or a local override.

Creating an additional Web entry point

There can be one or more MSCMS 2001 server entry points for each server. The server entry point is a virtual Web site that has been configured to point to an MSCMS 2001 server.

Select the Web tab to display a screen that gives the status of Web entry points and then allows you to configure whether authoring is allowed using this entry point. The components on this screen are as follows:

- Web Server
- IP Address
- TCP Port
- Host Name
- MSCMS 2001 server.

To create an additional Web entry point, change the MSCMS 2001 server component as shown on the screen.

1 Click **Configure**.
2 For the Web site you want to configure, change the corresponding option in the "MSCMS?" drop-down list to **Yes** to either Authoring Allowed or Authoring Not Allowed.
3 Click **OK.**

Handling read-only sites for deploying sites

If you try to deploy to a read-only site, your login will fail. To successfully do site deployment to read-only sites, do the following:

1 Click **Configure**.
2 If there isn't already a Web site on the same server as the read-only site, create a new one (**Administrative Tools > Internet Information Services**). The new Web site will show up in the list of sites.
3 Ensure the MSCMS? drop-down list selection is Yes - With Authoring.
4 Use this new entry point for site deployment.

Refer to Chapter 3, "Installing the MSCMS 2001 Server and Site Builder" for information about controlling which server the Site Builder connects to.

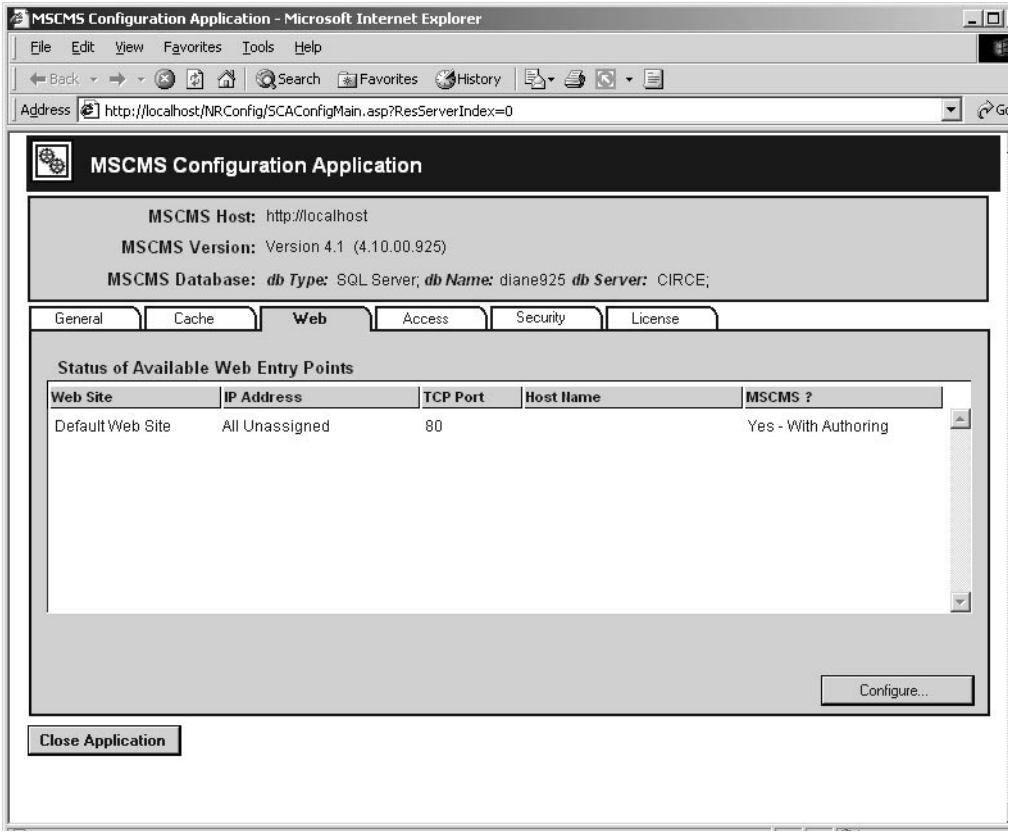
Removing an entry-point

! Caution
You cannot add or remove an entry point from the IIS Web site that the SCA is being loaded from. Also, you cannot remove the last entry point, regardless of what site it is on.

1 Click **Configure**.

2 For the Web site you want to configure, change the corresponding option in the "MSCMS?" drop-down list to **No**.

3 Click **OK.**

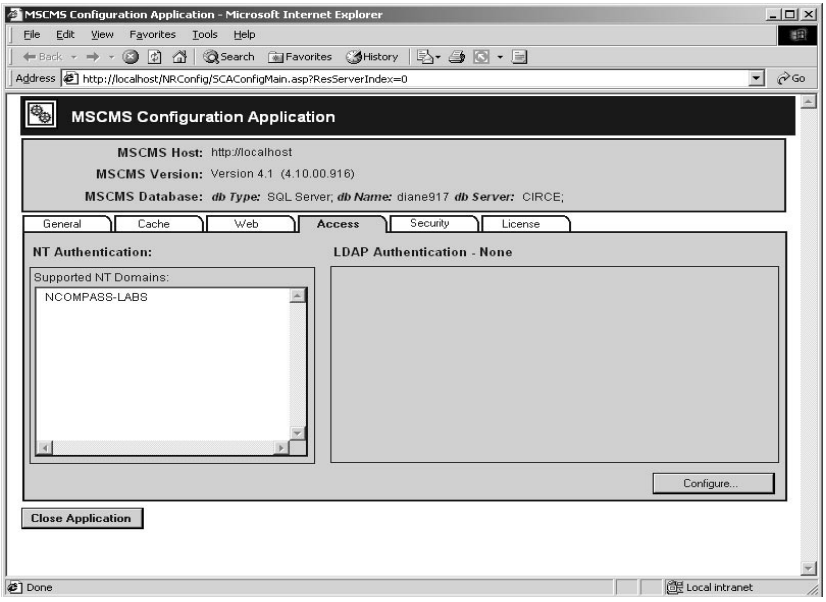


Changing access options

The Access function supports tasks associated with domain accessibility, user authentication, and establishing support for Site Server or Active Directory for LDAP user authentication.

Changing Windows 2000 authentication

The Access tab screen shows a list of supported Windows 2000 domains (labelled as Supported NT domains in the following screen example) which the administrator can add to. Click **Configure** to display the following screen.



Click **Browse** and select or de-select the provided choices. Or, if you have many domains, manually type the domain name to save time. Click **Add** and then **OK**.

Using LDAP for user authentication

Using the Access function, you can choose LDAP for user authentication using either Site Server or Active Directory (for Windows 2000 systems). The following sections explain how to set up these two authentication services, starting with Site Server.

1 Click **Configure** from the main Access tab.

2 Select Site Server from the drop-down list.

3 Select None (as shown in above screen shot) if you currently have either Site Server or Active Directory configured and you want to have only Windows 2000 users authenticated by Content Management Server. You would also choose None, if your site is not protected by Site Server or if your server is not an Active Directory service member server.

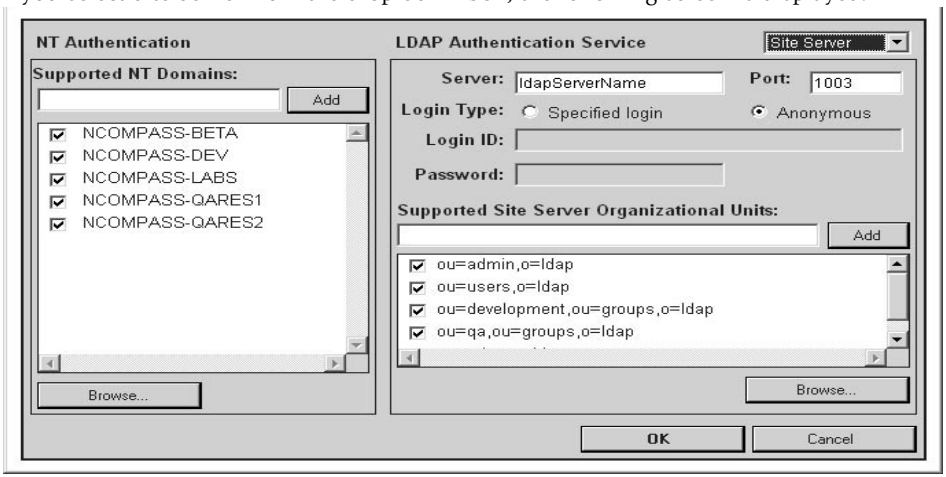
Prerequisites to using Site Server

Complete the procedures in Chapter 2, "Configuring Microsoft Site Server," as well as the chapter on installing and configuring your Microsoft SQL Server database before doing the steps outlined in this section. Note that Site Server is not supported in a clustered environment.

When installing the MSCMS 2001 server, the Site Server address must be specified identically as it was during the Site Server installation. For example, if you specified the IP address of the LDAP server, then you must enter this IP address, rather than "localhost," or the machine's name.

Using Site Server

If you select Site Server from the drop-down box, the following screen is displayed.



Selecting LDAP organizational units

In the above screen example, NT domains refers to Windows 2000 domains.

1 Select an LDAP server. If the LDAP server machine is not using the default port, specify a port number in the Port box.

2 If you are not using the anonymous login type, select Specified Login and enter the full LDAP administrator user name, for example, `cn=Administrator,ou=Members,o=CompanyName`, in the Login ID area. Enter the LDAP user's password.

The LDAP account that MSCMS 2001 uses must have enough privileges to:

- see all the organizational units containing users or groups that you want to add to subscriber groups.
- get the LDAP group membership information for all LDAP users and groups that will be added to subscriber groups.

To satisfy these requirements under all circumstances, we recommend you create an account that has read access to everything but no write access.

3 Select the organizational units to which you want to give access to MSCMS 2001 by clicking their names. MSCMS 2001 administrators will be able to add the users and groups in the selected organizational units to MSCMS 2001 rights groups. You can also Add more OUs using Add and Browse.

4 When done configuring all the relevant options, click **OK**.

Configuring Site Server and IIS on MSCMS 2001

Creating a new local Membership Server

The following steps are required only if the MSCMS 2001 server and LDAP Server are installed on separate machines.

1 In the Management Console, select the Personalization and Membership folder and right-click the name of the computer that will be used for the MSCMS 2001 server. Select **New > Membership Server Instance**.

2 Select the Custom Configuration option. Click **Next**.

3 Enable Active User Object (AUO) only. Do not enable LDAP or Direct Mail. Click **Next**.

4 For the LDAP service, use the name and port number you used when configuring the LDAP server in the "Creating a Membership Server for use with MSCMS 2001" section of Chapter 2, "Configuring Microsoft Site Server." Click **Next**.

5 Enter "Administrator" in the LDAP Username box. Type the administrator's password in the Password box. Click **Next**.

6 Click **Finish**.

Mapping IIS to the Membership Server for authentication

To associate the new Membership Server with the MSCMS 2001 Web site:

1 In the Management Console, select the Web site used by MSCMS 2001. Right-click and select **Task > Membership Server Mapping** from the menu. The Membership Server Mapping dialog box opens.

2 From the Membership Server Mapping dialog box, select the Membership Server you created on the computer that will host the MSCMS 2001 server. Click **OK**.

The IIS used by MSCMS 2001 can now use the Membership Server to authenticate subscribers.

Configuring authentication for root and NR virtual directories

Before using the MSCMS 2001 server with Site Server, you must change the access properties of several virtual directories.

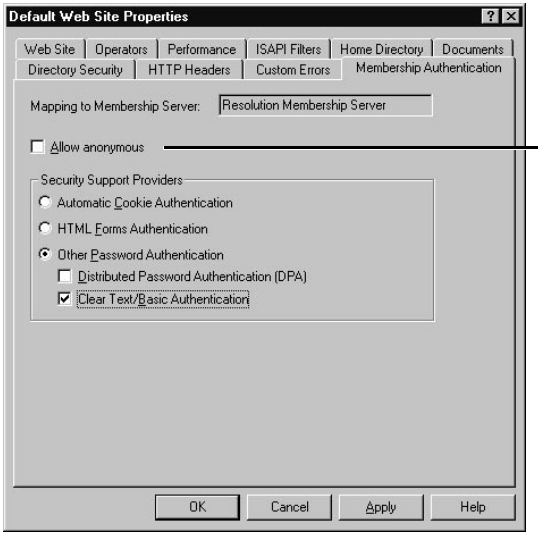
Configuring the Web site's root virtual directory

The root virtual directory must not allow Anonymous Access. This is so a user entering the Content Management Server 2001 system must initially log in through Site Server (using the NRSiteServerAccess.asp file in the root directory). If successfully authenticated, they can access items within the NR subdirectory. Access to channels and postings within Content Management Server 2001 is determined by the user's subscriptions and rights. To configure the Web site's root directory:

1 Open the Microsoft Management Console from the Site Server Program group.

2 Select the IIS folder. Right-click the Web site used by MSCMS 2001 and select **Properties**.

3 On the Default Web Site Properties dialog box select the Membership Authentication tab.



"Allow anonymous" must not be selected for the root directory.

Supported Security Support Providers include HTML Forms Authentication, Distributed Password Authentication, and Clear Text/Basic Authentication.

Microsoft Management Console—the Properties dialog box for Web site used by MSCMS 2001 server

4 Clear the Allow anonymous check box.

5 For authentication, choose one of the following options:

- HTML Forms
- Other Password Authentication (DPA or Clear Text/Basic Authentication).

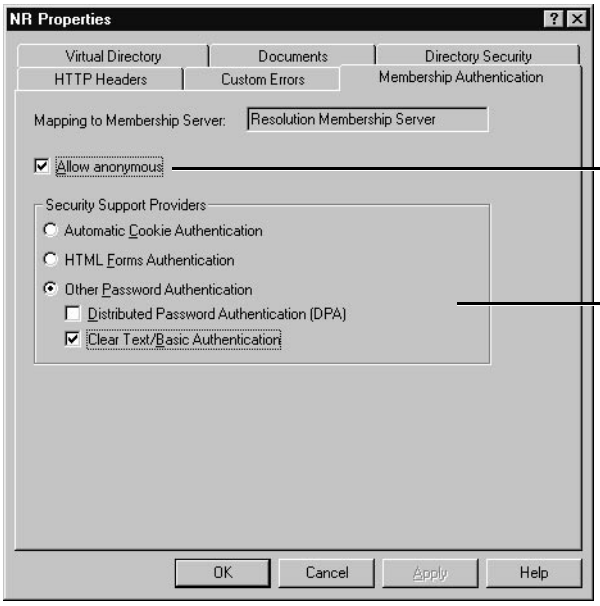
6 Click **OK** to close the dialog box.

Configuring the NR virtual directory

7 Below the root virtual directory locate the NR virtual directory and right-click it. Select Properties from the pop-up menu. The NR Properties dialog box opens.

8 Select the Membership Authentication tab.

9 Select the Allow Anonymous check box. The MSCMS 2001 System Account is used during anonymous access.



Microsoft Management Console—the NR virtual directory's properties dialog box

10 Choose the same Security Support Providers settings used for the Web site's root virtual directory. Click **OK**.

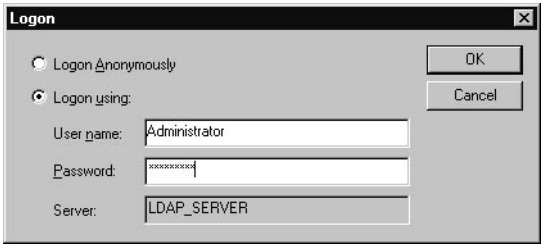
11 Close the Microsoft Management Console. Click **Yes** when prompted to save the console settings.

Managing the Membership Directory

To map the Membership Directory folder to the LDAP directory so that users and groups can be created, viewed, and managed from the machine hosting the MSCMS 2001 server:

1 In the Management Console, right-click the Membership Directory Manager. Select Properties.

2 Choose the LDAP server's name and port number. A Logon dialog box opens.



Microsoft Management Console—Membership Directory Logon dialog box

3 If anonymous access to the LDAP server is allowed, select "Logon Anonymously." If anonymous access isn't allowed, choose "Logon using" and enter your LDAP Server user name and password.

4 Click **OK**.

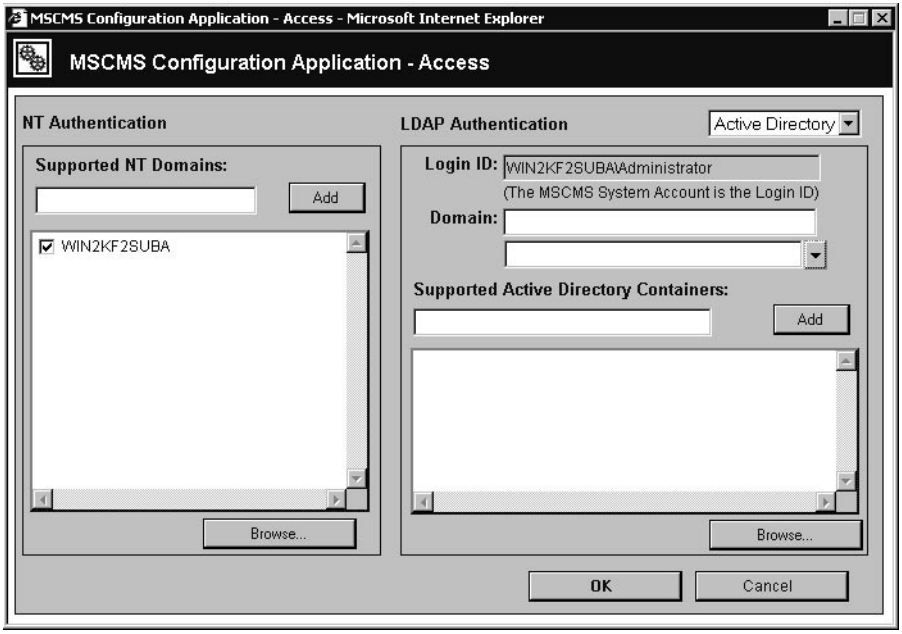
Using Active Directory services

The following information applies only to Content Management Server 2001 sites that will be integrated with Windows 2000 Active Directory™ services to use Active Directory LDAP authentication. Note that user groups and users must still be created and configured on Domain Controllers (DCs) only.

Note
The MSCMS 2001 server must be installed on a Windows 2000 Server or Advanced Server, and be a member of an Active Directory domain.

1 From the Access tab screen, click **Configure**.

2 Select Active Directory from the drop-down list beside LDAP Authentication Service as shown in the following screen.



3 Note that the Login ID is the MSCMS 2001 System Account. See the next section for more information about authenticating the user with the Login ID.

4 Choose the domain to which to give access to your MSCMS 2001 server. You can manually enter the domain name in the top line or use the drop-down list to select one. MSCMS 2001 administrators can add the NT users and groups in the selected domain to the MSCMS 2001 rights groups. Also, only those selected domains will be available when logging in the Site Builder and when using the Web Author manual login.

5 Add any supported Active Directory containers required. You can enter manually or use the Browse button to display the containers.

6 A list box, based on the Login ID and password, displays hierarchically, all OUs from the selected domain. Only containers not set to Advanced view for Microsoft Management Console (MMC) are displayed. Select the OUs from this list that must be supported, or clear the check box for any that shouldn't be supported.

Authenticating with Login ID

The Login ID (user name) is used by MSCMS 2001 to connect to Active Directory to retrieve the organizational units (OUs) and containers. The MSCMS 2001 System Account is used as the Login ID. Therefore, the MSCMS 2001 System Account must have at least read privileges to all the domains, OUs, and containers and the users within, that the system needs to authenticate.

The domain can be in distinguished name (DN) form, Windows 4.0 NT form (with a trailing backslash), or canonical form for domain names (for example, microsoft.com). The containers (when using the Add button) can be in DN or canonical form (microsoft.com/users).

We recommend that frequently used domain, OUs, and containers be explicitly selected to make it easier for the user to log on.

Changing security settings

Use the Security function to change the following:

- MSCMS 2001 System Account information
- guest user access options
- Web cookie settings.

Modifying MSCMS 2001 System Account information

What is the MSCMS 2001 System Account?

The MSCMS 2001 system account is the Windows 2000 account that Content Management Server 2001 uses to access resources on your network and to connect to Active Directory if it is used.

We recommend creating a dedicated Windows 2000 user account, as opposed to an account that belongs to a member of your staff. Using a dedicated account, and setting the account's password to never expire, ensures that the password for the System Account never changes. If the password is ever changed, MSCMS 2001 won't operate properly because it will be impossible to access the database or write files to the cache folders. In this case, use the SCA to update the password.

What are the implications for changing the System Account in multiple-server configurations?

In multiple-server configurations, each server in the configuration can possibly have a different MSCMS 2001 System Account. The system administrator must have administrator rights on the local machine to change the System Account.

System administrators versus Initial MSCMS 2001 Administrators

A system administrator is a network user with administrator rights on the local machine. The system administrator can:

- install Content Management Server 2001
- create the MSCMS 2001 server
- configure the server using the DCA and SCA.

The Initial MSCMS 2001 Administrator is a Windows 2000 domain user account that is initially the only account that can log on to Content Management Server 2001. It is used to set up MSCMS 2001 access rights and hierarchies. Note that this is not the same account as the MSCMS 2001 System Account.

Enabling guest user access options

For a Windows 2000 account, enabling the guest access allows unauthenticated (no password required) users to:

- view postings that have been granted guest access
- see postings in channels that the guest user has rights to.

Note
If you enable guest access, the account you specify as the guest account must be added as an MSCMS 2001 subscriber through the Site Builder. This account must also be granted access rights to the channels that guest users are allowed to view.

Modifying cookie settings

Users (guests or otherwise) are given a cookie when they authenticate themselves with MSCMS 2001. Whenever they make another request, they give this cookie back to MSCMS 2001 and MSCMS 2001 validates the request. Use the Security tab to adjust the following cookie settings.

Cookie Lifetime

A cookie is valid for only a certain amount of time before the user's "session" is deemed to have expired, at which time they must re-authenticate themselves. This time, in minutes, is the "cookie lifetime." The default is 12 hours.

Check Machine IP Against Cookie

A cookie contains the Internet Protocol (IP) address of the authenticated user. If the Check Machine IP Against Cookie property is set to Yes, every request received by MSCMS 2001 is validated to make sure it is coming from the same IP address from which the original authentication request came.

This functionality can be disabled because some users (such as AOL users) can have a different IP address with every http request. So if this is enabled, your site may not work for certain users.

Displaying license information

The Licenses tab displays current licensing information including user name, company, and product ID and expiry date for the Evaluation edition.

Chapter 6

Installing MSCMS 2001 Site Stager

System requirements

MSCMS 2001 Site Stager is an application that ships on the Microsoft® Content Management Server 2001 product CD and is installed separately as described in this chapter. Site Stager converts MSCMS 2001 content, navigation, and links to static HTML and ASP files for later deployment on any Web server.

Note
The current version of Site Stager works with the current version of Content Management Server 2001 only (and vice versa).

The Stage As User NT domain user account and the Destination User NT domain user account are used exclusively by Site Stager and must exist before installing Site Stager, or else the Site Stager installation will fail. Refer to the next section, "Creating the Destination User," for more information.

To install and run the Site Stager, you need the following products and enough free disk space to accommodate the staged site's files. The "Supported versions" column indicates the range of product versions from the earliest, to what we know to be the most recent version, on which you can install Content Management Server 2001.

Product name	Supported versions
Microsoft Windows (Server or Workstation)	Windows 2000
Microsoft Internet Explorer	5.0, 5.5. Site Stager needs the XML parser that comes with IE5.
Microsoft Task Scheduler Service	Version supplied by OS
Microsoft Active Directory Service Interfaces (ADSI)	2.5 (4.1.258.1)
Microsoft Java Virtual Machine	5.0.3234.0 for Windows 2000

The Site Stager can be installed on any machine on the same domain as the MSCMS 2001 server. You must have Windows administrator rights for the machine on which you are running the Site Stager installation program.

Creating the Destination User

You must create the Destination User account before installing the Site Stager. Site Stager uses the Windows NT User Manager rights to create directories and files as it stages a site. The Destination User does not need to be a member of an MSCMS 2001 User Group.

Site Stager requires that the Destination User have "Log On As Batch Job" rights, and write privileges in all directories where the generated HTML files are stored. These rights and privileges can be explicitly granted to the Destination User account or inherited from an NT group to which the Destination User belongs. The Destination User must also have local administrator rights.

If the account you enter does not already have "Log On As Batch Job" and "Log on locally" rights, the Site Stager installation program grants them. Administrator rights must be manually granted using the Windows NT User Manager (or Users and Passwords in Windows 2000). If the destination user account is modified, ensure the new Destination User is given these rights on the Site Stager computer. We recommend creating Destination User accounts specifically for Site Stager use only.

Installing the MSCMS 2001 Site Stager

Before installing Site Stager, ensure the Microsoft Task Scheduler Service and the Microsoft Java Virtual Machine are installed.

Insert the MSCMS 2001 product CD in the CD drive and double-click **MSCMS Site Stager.exe**. The installation program presents a series of dialog boxes as follows.

Step	Dialog box name	Action
1	Welcome	Click **Next**.
2	Site Stager Install Prerequisites	Lists the currently installed 3rd party software and their versions. Click **Next**.
3	Choose Destination Location	Accept the default directory where the Site Stager program will be installed, or click **Browse** to select another directory. Click **Next**.
4	Select Program Folder	Accept "Site Stager," or select a different program folder from the list. Click **Next**.
5	Destination User Account	Select a Windows NT account on the machine where the MSCMS 2001 site will be staged to. Click **Next**. The Destination User must have Administrator and "Log On As Batch Job" rights to the directory where the staged site will be saved.
6	Site Map URL	Accept the default URL for the Site Map (changing the server name to the name of your MSCMS 2001 server), or enter a different one. The Site Map URL file (sitemap.asp) generates a description of the channel hierarchy. Click **Next**. The installation program will copy required files and configure your system.
7	Setup Complete	Select the "Yes, I want to restart my computer now option." Click **Finish**.

Automatically scheduling MSCMS 2001 Site Stager

1 The Startup Type should be Automatic. If not, select the Automatic option.

2 Click **OK**.

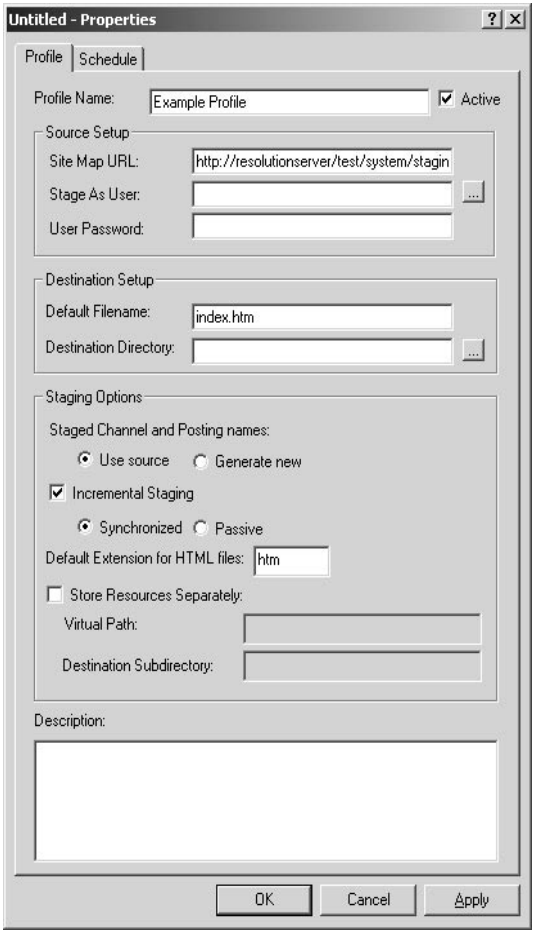
3 Close the Services Control Panel applet and restart the computer.

4 To confirm that the Task Scheduler service started automatically, open the Services Control Panel icon and check the Status column next to the Task Scheduler service. It should list the Task Scheduler as "Started."

Task Scheduler is usually running; to check, in the Windows 2000 Control Panel, double-click **Administrative Tools** and then **Services**.

Establishing a schedule

To establish a Site Stager schedule, you need to edit the Properties of a profile—click the **Schedule** tab and set your schedule there.



Properties for a profile: Profile tab dialog box

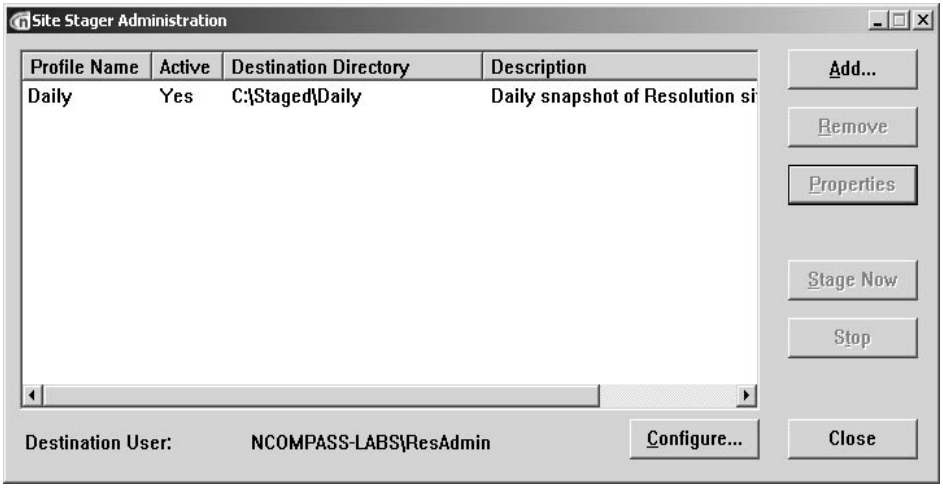
Changing the Destination User

If required, you can change the Destination User account from within the Site Stager program. To change the Destination User you must have administrator privileges on the machine on which the Site Stager is installed.

The new Destination User account must be granted “Log On As Batch Job” and “Log on locally” rights on the machine hosting the Site Stager.

The Destination User must also have local administrator rights.

1 Launch the Site Stager Administration program from your Windows desktop (**Start > Programs**) as shown in the following screenshot.



2 Click **Configure** in the Site Stager Administration window. The Destination User Setup window opens.

3 Enter the new Destination User name and password.

4 Click **OK**. The Site Stager will now use this destination user when it runs.

Chapter 7

Installing Content Connector

System requirements

MSCMS 2001 Content Connector for Commerce Server 2000 is an application that ships on the Microsoft Content Management Server 2001 product CD and is installed separately as described in this chapter. Content Connector combines the content management of Content Management Server 2001 with the e-commerce and personalization capabilities of Microsoft Commerce Server 2000.

Content Connector software requirements

This chapter assumes you have already met the software requirements for Microsoft Content Management Server 2001 and Microsoft Commerce Server 2000.

Following are the software requirements for MSCMS 2001 Content Connector for Commerce Server 2000. The "Supported versions" is the range of product versions, from the earliest version on which Content Connector has been tested, to the most recently tested version. These are the versions on which you can install Content Connector. There may be more recently released versions of the individual products, but we can't guarantee Content Connector will install properly on them.

Product name	Supported versions
Microsoft Commerce Server 2000	Final release, SP1
MSCMS 2001 server	4.1

System configurations supported by Content Connector

You can configure your system in a single-server configuration or a multiple server configuration. How you configure your system will determine how you choose to unpack the sample site or custom site (see the section "Unpacking the sample site" in this chapter).

Single-server software configuration

Install Content Connector on the same machine as Commerce Server 2000 and Content Management Server 2001.

There are no additional changes to the hardware requirements already stated for Content Management Server 2001 and Commerce Server's server computer. Refer to Chapter 1, "Getting Started" and Commerce Server 2000 Help for additional system configuration information.

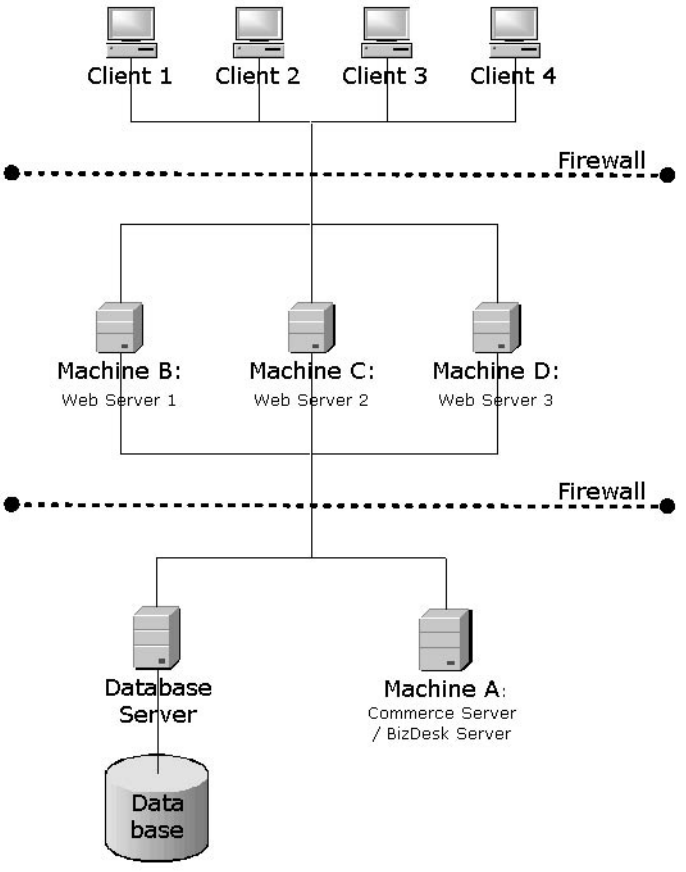
SQL server must be installed somewhere on the network that is accessible to the machine.

Once the servers are configured, you can access your site through the Site Builder or the Business Desk.

Multiple-server software configuration

Any computer in your configuration that acts as a Web server for the Method Systems sample site application must have the following installed on it:

- Commerce Server 2000 Web server
- MSCMS 2001 server
- MSCMS 2001 Content Connector for Commerce Server 2000.



Multiple-server software configuration diagram

Following is a suggested configuration for multiple servers.

Machine A

This machine is a Web server for Commerce Server and the Method Systems Business Desk application. The software configuration for the Commerce Server administrator machine is as follows:

- Install the full Commerce Server 2000
- Do not install MSCMS 2001 or Content Connector on this machine
- Windows 2000 server or advanced server.

Machine B, C

These machines are Web servers for the Method Systems (or your custom site) Web site application. The software configuration for the Web server machines (multiple) is as follows:

- Commerce Server 2000 Web server only
- MSCMS 2001 server
- MSCMS 2001 Content Connector
- Windows 2000 advanced served with network load balancing (NLB).

Database server

- SQL Server 7 or SQL Server 2000
- Windows 2000 server or advanced server

Client 1, 2, 3

- Web browser and/or
- MSCMS 2001 Site Builder and/or
- Commerce Server 2000 Business Desk.

Installing Content Connector

Before beginning the Content Connector installation, ensure that Commerce Server 2000 and Content Management Server 2001 are installed and functioning.

From the CD, launch the setup program for Content Management Server 2001 by double-clicking **setup.exe**.

Step	Dialog box title	Action
1	Install splash screen	Click **Install Components**.
2	Install splash screen	Click **Install Content Connector**.
3	Welcome	Click **Next**.
4	Installation Requirements Check	If all prerequisites are met, click **Next**. The installation will not continue if these requirements are not met.

Adding custom resource types

Step	Dialog box title	Action
5	SQL Database Connection	Select the SQL Server where the Commerce Server Administration database is located. Type the username and password for the database connection. Click **Next**.

Installing files and components

Step	Dialog box title	Action
6	Ready to Install the Program	Click **Install** to begin the installation. This takes a few seconds.
7	InstallShield Wizard Completed	Click **Finish**.

8 Once the install is completed, unpackage the Method Systems sample site.

Unpacking the sample site

You must install Content Connector before unpacking a site.

Unpacking the sample site on a single-server configuration

From **Program Files\Microsoft Content Management Server\Server\Content Connector\CS2000\SitePackage**, double-click the **MethodSystems.pup** file.

Step	Dialog box title	Action
1	Unpack	Select **Quick Unpack**. Click **Next**. The unpacking takes a few minutes.
2	Quick Unpack	Ensure the site name is set to MethodSystems. Enter the SQL user name and password if it is not already done. Click **Next**. This takes a few minutes.
3	Data Warehouse	Accept the defaults. Click **OK**. Unpacking proceeds. This takes a few minutes. If you are not an MSCMS 2001 administrator for this machine, you will get a message dialog box. Click **OK**. A login dialog box opens. Type an MSCMS 2001 administrator user name and password in the appropriate fields. Click **OK**.
4	Profiling system	Accept the defaults. Click **Next**.
5	Profiling system	Accept the defaults. Click **Next**.
6	Unpacking is Complete!	Click **Finish**.

Note
The **PreMethodSystems.vbs** file must stay with the **MethodSystems.pup** file. If you move the **MethodSystems.pup** file to another location, be sure to move the **PreMethodSystems.vbs** file as well.

Unpacking the sample site on a multiple-server configuration

All necessary software should be installed on the respective machines before unpacking the solution site or your custom site. See the section "Multiple-server software configuration" in this chapter for information on software configuration for multiple servers.

Note
Do not attempt to run the site or the Business Desk until you have unpacked the Method Systems site (or your custom site) on Machines A and B.

Step 1: Unpack MethodSystems.pup (or custom site) on Machine A:

Because this machine does not have Content Connector installed you must copy the MethodSystems.pup and the PreMethodSystems.vbs files to this computer.

Note
When you begin unpacking the site, the PreMethodSystems dialog box warns you that there is no Content Connector or Content Management Server 2001 on this machine. Ignore this error message.

Double-click **MethodSystems.pup**. The unpack window opens.

Step	Dialog box title	Action
1	Unpack	Select **Custom Unpack**. Click **Next**.
2	Unpack Method	Select **Create a new site**. Click **Next**.
3	Site Name	Either leave the default of **MethodSystems** or if this is your own custom site, type a new name **<MyCustomSite>**. Click **Next**.
4	Select Resources	Select **Content Data** and click **Remove**. All remaining resources and data will unpack on this machine. (Content Data cannot be unpacked on this machine because it requires Content Connector components; Content Connector does not reside on this machine.)
5	Global Resource Pointers	Accept the defaults for mapping global resource pointers to global resources.

Step	Dialog box title	Action
6	Database Connection Strings	If the SQL server is on this machine, accept the defaults. If it is on a remote machine proceed with the following six steps: 1 Click **New Database**. A SQL dialog box opens. 2 Enter the SQL user name, for example, **<MyCustomSite_Commerce>** and password for this database connection. Click **OK** 3 Click New Database again. 4 Enter the SQL user name, for example, **<MyCustomSite_dw>** and password for this database connection. Click **OK**. 5 Click **Modify**. The Data Link Properties box opens. 6 Reconfigure the connection strings as appropriate for the resources you are unpacking. Note: Use the same site database for all site resources, except the data warehouse.
7	Select Applications	Uncheck the MethodSystems connector site application. (Only the Business Desk application is unpacked on this machine. The MethodSystems application cannot be unpacked here because it can only run on a Content Connector Web server machine.)
8	Select IIS Web Sites and Virtual Directories	Select an IIS Web site and virtual directory for each application. 1 Select the MethodSystems biz desk Application in the left window. 2 In the IIS virtual directory field, type your new site name, for example, **<MyCustomSitebizdesk>**.
9	Unpacking	The site begins unpacking. This takes a few minutes.

Step	Dialog box title	Action
10	Data Warehouse	If this is a custom site, rename the data warehouse file **<MyCustomDataWarehouse>**. Click **OK**. Unpacking proceeds; this takes a few minutes.
11	Profiling System	Accept the defaults. Click **Next**.
12	Profiling System	Accept the defaults. Click **OK** (this takes a few minutes).
13	Unpacking is Complete!	Click **Finish**.

Step 2: First unpack of MethodSystems.pup (or custom site) on Machine B

Now you must add the Content Data resource to the site. This machine uses Content Connector components to import Content Management Server 2001 object data.

From the **Microsoft Content Management Server\Server\Content Connector\CS2000\SitePackage**, double-click the **MethodSystems.pup** file. The unpack window opens.

Step	Dialog box title	Action
1	Unpack	Select **Custom Unpack**. Click **Next**.
2	Unpack Method	Select **Add resources in the package to an existing site**. Click **Next**.
3	Site Name	Ensure the selected site name is **MethodSystems** or if this is a custom site, the custom name you chose when unpacking on Machine A, **<MyCustomSite>** should be visible. Click **Next**.
4	Select Resources	Select **Content Data** and click **Add**. (Only this resource unpacks on this machine.) Click **Next**.
5	Global Resource Pointers	Accept the defaults for mapping global resource pointers to global resources. Click **Next**.

Step	Dialog box title	Action
6	Unpacking	The site begins unpacking. This takes a few minutes.
7	Unpacking is Complete!	Click **Finish**.

A new directory (**MethodSystems** or **< MyCustomSite >**) is now added to the Site Package directory.

If you want to make this site available for guests, add guest user rights to the site through the Site Builder. (See Chapter 13, "Managing Content Connector User Authentication" and Chapter 3 "Setting Up Publishing: Assigning Publishing Rights in the MSCMS 2001 *Site Administrator's Guide* for information on adding guest user rights to the Subscriber group "CS2000 Guests" in the Site Builder.)

The Method Systems sample solution site is best demonstrated with access for guest users allowed.

Step 3: Second unpack of MethodSystems.pup (or custom site) on Machine B

In this step you add the application that supports Content Management Server 2001 when serving site content pages from this Content Connector Web server.

From the **Microsoft Content Management Server\Server\Content Connector\CS2000\SitePackage**, double-click the **MethodSystems.pup** file. The unpack window opens.

Step	Dialog box title	Action
1	Unpack	Select **Custom Unpack**. Click **Next**.
2	Unpack Method	Select **Add an application in the package to an existing site**. Click **Next**.
3	Site Name	Ensure the selected site name is **MethodSystems** or if this is a custom site, the custom name you chose when unpacking on Machine A, **<MyCustomSite>** should be visible. Click **Next**.

Step	Dialog box title	Action
4	Select Applications	Uncheck MethodSystemsbizdesk (only the site application is unpacked on this machine). Click **Next**.
5	Select IIS Web Sites and Virtual Directories	Select an IIS Web site and virtual directory for each application. 1 Select the MethodSystems site application. 2 In the IIS virtual directory field, type your new site name (if this is a custom site), for example, **<MyCustomSiteApplication>**.
6	Unpacking	The site begins unpacking. This takes a few minutes.
7	Unpacking is Complete!	Click **Finish**.

Step 4: Updating the Commerce Server Manager on Machine A

The Business Desk application on Machine A launches the MSCMS 2001 Web Author to view and edit site pages. You must specify which server the Business Desk will use to launch content authoring operations.

1 Click **Start > Programs > Microsoft Commerce Server 2000 > Commerce Server Manager**.
2 Expand **Commerce Server Manager > Commerce Sites > Site Resources > Content Data**.
3 Right-click **Properties**. The Content Data Properties dialog box opens.
4 From the Properties pane, select the **Content Management Server for BizDesk**.
5 In the Selected Property Value pane, type the name of one of the servers in your cluster, for example the name of Machine B (or the shared DNS name or IP address). Read the property description at the bottom of this dialog box for more information.

The complete site is now available.

Step 5: Add additional Web servers (C, D, etc.)

The < MyCustomSiteApplication > application is now added to the Commerce Server site and running on Machine B. To add additional Web servers for this application, copy the application files on machines C, D, etc.

To add additional Web servers to the site application follow these procedures:

1 Install Commerce Server Web Server, Content Management Server 2001, and Content Connector on each machine in the cluster.

2 Go to wwwroot on machine B and find the directory where the site application was unpacked (for example, **\Inetpub\wwwroot\MethodSystems** or **< MyCustomSiteApplication >** if this is a custom site).

3 Copy the MethodSystems or **< MyCustomSiteApplication >** to the wwwroot directory on the new Web server machine (C, D, etc.).

In order to configure IIS virtual directories and applications for this machine, run SimulateUnpack.bat, which will launch Unpack.vbs with arguments. (The arguments in SimulateUnpack.bat were given to Unpack.vbs when the application was unpacked on Machine B.)

Note
These arguments are also appropriate on Machines C, D, etc. unless, for example, the wwwroot is on a different physical drive. If the arguments are not correct for machine C, D, etc. you can edit simulate unpack before running it. (To display more information about these arguments, double-click Unpack.vbs.)

4 Once you verify the arguments, run SimulateUnpack.bat on the new Web server by double-clicking the file.

The site application is now available on this Web server. Point your browser to the site application URL on this machine. Once the application is loaded, the name of this Web server is added to the site application in the Commerce Server Manager.

5 Repeat these steps for each Web server machine in your configuration (for example, D, E, etc.).

Launching the Method Systems Business Desk

To launch the Method Systems Business Desk for the first time:

1 Launch your browser and type the URL for the Business Desk `http://<YourServer>/methodsystemsbizdesk`. (In a multi-server configuration `<Your Server>` is Machine A.) This takes a few minutes. The Browse for Folder dialog box opens.

2 Accept the default directory or select another directory to install the Business Desk.

3 Select Start Business Desk from the status window. The following window appears.



Method Systems Business Desk

Deleting a Content Connector site

Note
The following deletions are similar to what is in "Deleting a Site" in the Commerce Server 2000 Help. However, modifications have been made for Content Connector sites. Follow these steps when deleting Content Connector sites.

Deleting Content Connector site files, resources, and virtual directories

Deleting a site

1 Click **Start > Programs > Microsoft Commerce Server 2000 > Commerce Server Manager**.

2 Expand Commerce Server Manager > Commerce Sites.

3 Right-click the site to be deleted (for example, MethodSystems) and click **Delete**.

Deleting Global Resources

If the global resources used by this site are not used by any other site, you may want to delete them. There are three types of global resources used by the sample site (or custom site) that may be created when unpacking a site.

To delete these resources, from **Commerce Server Manager\Global Resources**, right-click and select **Delete** for the following:

- Data Warehouse < number >
- CS Authentication(< SiteName >)
- Profiles(< ServerName > _ < SiteName > _Commerce).

Deleting the databases used by the site

1 Click **Start > Programs > Microsoft SQL Server** or **Microsoft SQL Server 7.0 > Enterprise Manager**.

Note
Make sure SQL Server is running by checking if the icon in the Enterprise Manager window displays a green light. If it is not running, right-click the name of the SQL Server computer and click **Start**.

2 Expand the nodes to the following path: **\Microsoft SQL Servers\SQL Server Group\ < SQL Server Name > \Databases**.

3 Right-click the database you want to delete and click **All Tasks > Detach Database**. The Detach Database window opens.

4 In the Database status section, if the **Connections using this database** is more than **0**, click **Clear**. Click **Cancel** (you must do this even if the **Clear** is unavailable because there are **0** connections).

5 Right-click the database used by site (for example, MethodSystems) and click **Delete**.

6 Repeat steps 3 to 5 for each database you want to delete.

Deleting the OLAP databases for the site

1 Click **Start > Programs > Microsoft SQL Server > Analysis Services > Analysis Manager**.

2 Expand the nodes to the following path: **\Analysis Servers\SQL Server Name**.

3 Right-click the database you want to delete and click **Delete**.

4 Click **Yes** to confirm the folder deletion for each database you want to delete.

5 Repeat steps 3 and 4 for each database you want to delete.

Deleting Direct Mailer jobs

1 Click **Start > Programs > Microsoft SQL Server** or **Microsoft SQL Server 7.0 > Enterprise Manager**.

2 Expand the nodes to the following path: **\Microsoft SQL Servers\SQL Server Group\SQL Server Name\Management\SQL Server Agent\Jobs**.

3 From the right pane of the SQL Server Enterprise manager select the Direct Mailer job(s) you want to delete. Click **Delete** from the toolbar.

Deleting virtual directories

If you have a multiple server configuration you need to delete the following on all machines. However, depending how your machines are configured, not all files and virtual directories will be on all machines.

1 Click **Start > Administrative Tools > Internet Services Manager**.

2 Expand the nodes to the following path: **\ < computer name > \Default Web Site**.

3 Right-click the virtual directories (for example the applications of the site, MethodSystems and MethodSystemsbizdesk) and click **Delete**.

4 From the Internet Services Manager, expand the nodes to the following path: **\ < computer name > \Default Web Site\NR\System\WBC\Customizable.**

5 Right-click the virtual directory **Customizable** and click **Delete**.

6 From the **Internet Services Manager** expand the nodes to the following path: **\ < computer name > \Default Web Site\NR\ContentConnector\CS2000\SiteInterface.**

7 Right-click the virtual directory **SiteInterface** and click **Delete**.

Deleting site files

From Windows Explorer, go to the directory **Inetpub\wwwroot** where the site files are installed. Right-click and select **Delete** for the following files. (You may need to stop or restart the Web service to delete the < SiteName > folders.)

- < SiteName > folder
- < SiteName > Business Desk folder

- csapp.ini
- global.asa

Delete physical files used by the Content Data resource

From **Microsoft Content Management Server\Server\ContentConnector\CS2000\SitePackage** delete the sub-directory matching the site name, for example, **MethodSystems**.

Deleting content data

Delete the data in the order specified.

1 From the MSCMS 2001 Site Builder, select the Channel to be deleted (for example, CS2000 Channel). From the toolbar, click **Delete**.

2 Purge your deleted items folder.

3 Repeat steps 1 and 2 for the CS2000 Folder, Template Gallery, and Resource Gallery.

If you were unable to delete all data, installing a new package will overwrite the data remaining on your system.

Uninstalling Content Connector

Note
You must delete a Content Connector site before you uninstall Content Connector. If you uninstalled Content Connector first, reinstall it, remove the site, and then proceed with uninstalling Content Connector.

To uninstall Content Connector click **Start > Settings > Control Panel > Add/Remove Programs** and scroll to Content Connector. Click **Remove**.

Uninstall does not delete Content Connector sites. See "Deleting a Content Connector site" in this chapter for information.

Note
If you reinstall Content Management Server 2001 you should uninstall and reinstall Content Connector following the instructions described in this manual.

Chapter 8

MSCMS 2001 Installation Error Messages

MSCMS 2001 server installation

The following messages can appear when installing or uninstalling the MSCMS 2001 server software.

`There are some files pending update. We suggest rebooting the machine before installing Microsoft Content Management Server. Do you want to continue with the install?`

Context: Due to a previous installation or uninstallation, some file changes are pending.

Action: Reboot the system to let these changes take effect. If you continue with the installation, there may be problems.

`WBC Customizable is mapped to <> but it is an invalid directory.`

Context: Content Management Server 2001 tries to back up the users' copy of the WBC Customizable files, but the directory mapped to the WBC Customizable virtual directory is invalid. Installation cannot proceed. This means the existing WBC won't work properly either.

Action: Remove the WBC Customizable virtual directory mapping in IIS, and then run the MSCMS 2001 installation program.

`<existing Microsoft Content Management Server directory> cannot be renamed to <backup directory>.`

Context: Microsoft Content Management Server tries to back up the existing directory and files before doing the upgrade. This is done by renaming the MSCMS 2001 server directory to the backup directory. The rename operation failed.

Action: Retry the installation.

`Cannot unregister file <old DLLs>.`

`Cannot register file <file name>.`

Context: In an upgrade scenario, the old DLLs had to be unregistered before being replaced by the updated DLLs. This unregister attempt failed.

New DLLS had to be registered but failed for the indicated file.

Action: Retry the installation.

Database installation

General error messages

`The selected database appears to have contained Microsoft Content Management Server data, but it has been corrupted and is now missing some of this data. You will have to select a different database to use with this installation of the Microsoft Content Management Server.`

Context: The installation program has determined the selected database contains a corrupted version of the MSCMS 2001 database. The most likely cause is that a previous installation was ended during the database population.

Action: If this is not the case, restore from your most recent database backup and try again. If you are installing for the first time, delete the database and create a new empty database to use with Content Management Server 2001.

`Could not get database platform. (Fatal Error)`

Context: Errors of this nature indicate that a serious problem was encountered during installation.

Action: Try the installation again.

Microsoft SQL Server

`The currently logged in user is not a member of the System Administrators Server Role.`

Context: The account used to populate the SQL Server database must have system administrator rights. The user running the MSCMS 2001 server installation program must have local system administrator rights on the database machine.

Action: Try to log on again using an account with system administrator rights on the SQL Server.

`SQL Server Login <name> does not have SA privileges. Setup requires a Login with SA privileges in order to install or upgrade the database.`

Context: The account used to populate the SQL Server database must have system administrator rights.

Action: Retry using an account with system administrator rights on the SQL Server.

`Microsoft Content Management Server requires at least version <V> of SQL Server 7 version <V> or later.`

Context: The installation program could not detect a compatible version of Microsoft SQL Server.

Action: Ensure Microsoft SQL Server 7.0 or greater is installed.

MSCMS 2001 Site Builder installation

When installing the MSCMS 2001 Site Builder software the following messages could appear.

`UnInstaller setup failed to initialize. You may not be able to uninstall this product.`

Context: An error was encountered while attempting to set up uninstall. If you select Yes to continue you might not be able to uninstall MSCMS 2001 Site Builder.

Action: Select Yes to continue or No to stop the installation.

`An error occurred during the move data process.`

Context: This type of error indicates that problems were encountered while installing the MSCMS 2001 Site Builder binaries to your computer.

Action: Retry the installation.

Server Configuration Application

When working with the MSCMS 2001 Server Configuration Application (SCA), the following messages could appear.

`The user name you supplied is not a local administrator on the Microsoft Content Management Server machine.`

Context: The user is not logged in as a local administrator.

Action: Close all browser windows and use a different user name to log on again.

`The primary Microsoft Content Management Server Web server entry point cannot be found.`

`Currently no Microsoft Content Management Server Entry Points.`

Context: No MSCMS 2001 entry points are found on the local machine when displaying either the General tab page, or one of the dialog boxes.

Action: Run the Database Configuration Application.

`No NT domains were found.`

Context: The user tried to browse the NT Domain user in the SCA but the SCA couldn't connect to the domain in order to enumerate the users.

Action: Ensure the domain exists and the Primary Domain Controller (PDC) is currently on the network. The domains that appear in the Browse dialog box might be cached by the local machines's PDC.

`The computer name and drive letters cannot be chosen as a cache folder. Please select another folder.`

Context: The user clicked the computer name or disk drive in the file system browser dialog and tried to select a root folder of a drive as the cache folder.

Action: The cache folder must be a sub-folder. Click the plus sign (+) to expand the tree and select another folder.

`Maximum cache size cannot be larger than the free space available on the selected drive.`

Context: In the Cache Configuration dialog box, the value for the Maximum Disk Cache Size is larger than the value of free space of the drive with the disk cache folder.

Action: Enter a smaller number than the free space of the drive.

If the error has been caused by moving folders to another location on the same drive, resulting in many files in the current cache folder, and in little free space, do the following: shut down IIS, delete the current cache files, restart IIS, and then use the SCA to change the location.

`Unable to retrieve the specified NT domain.`

Context: The NT domain name was entered but the system cannot retrieve the specified domain.

Action: Ensure the domain exists and the Primary Domain Controller (PDC) is on the network.

`Active Directory settings not available.`

`Unable to retrieve the specified Active Directory container.`

Context: The user chose Active Directory (using the Add button) but the system failed to retrieve the setting object or the Active Directory container.

Action: Verify that the container name is entered correctly. Verify that the current user name and password specifies an account with access to that container. (You can also use the Browse (...) button to select the container.)

`Unable to retrieve the specified Site Server Organizational Unit.`

Context: The user clicked the Add button for Site Server but the Site Server setting object wasn't retrieved by the system.

Action: Verify that the organizational unit (OU) entered is typed correctly and that the OU is on the current machine. Verify that the current user name and password (or anonymous account) has access to that OU.

`The Server Configuration Application has failed to remove LDAP support from the Microsoft Content Management Server database.`

Context: The LDAP authentication was set to None but the system failed to do the operation.

Action: Refresh the Access tab page to see what the current LDAP setting is. If it specifies None, then everything is OK and the message can be ignored. If it still says Site Server or Active Directory, retry the operation.

The are several error messages that indicate failure to do a number of tasks such as removing Active Directory container, bind to Active Directory, bind to Site Server machine, configure LDAP setting as Site Server, and add or remove the LDAP Site Server OU.

For the above messages, you should verify that MSCMS 2001 server and database are running and operational. Refresh the main (tab) page on the SCA and try the operation again.

Glossary

Note that comprehensive glossaries of Microsoft terminology can be viewed at the following Web site: www.msdn.microsoft.com/siteguide/glossaries.asp.

A

Administrator, Content Management Server 2001

The Content Management Server 2001 (MSCMS 2001) administrator's job is to set up and manage publishing in the MSCMS 2001 environment. Administrators have full privileges (including the right to create, edit, and approve pages and postings) in all MSCMS 2001 containers.

Administrator, Windows 2000

A Windows 2000 administrator is a user with administrative rights on the computer where the MSCMS 2001 server and database are installed. It is typically the responsibility of the Windows administrator to install and configure Content Management Server 2001, and set up user accounts. The Windows administrator will not necessarily be the same person functioning as a Content Management Server 2001 administrator.

authentication page

A Web page you might need to pass through in order to log on to a Microsoft® Content Management Server 2001 site with a Web browser. On the authentication page, you will need to select a valid domain and enter your user name and password, or an LDAP (Lightweight Directory Access Protocol) Organizational Unit (OU).

B

business manager, Content Connector

The business manager is responsible for creating page profiles, personalized content objects, and for managing rich content created for Web sites.

C

channel

In typical implementations of Content Management Server 2001, the channel structure forms the navigational architecture of the Web site and can be thought of as a site map. A channel is designed to control both how the browsing user navigates through the site and how these users are restricted from accessing various parts of the site, depending on their authorization level.

cover page

Refers only to Content Management Server 2001 channels that use frames. The cover page is the page that appears when a subscriber clicks the channel name in their Web browser. A cover page typically displays a brief outline of the type of information posted to the channel. For frameless channels, the channel navigation template is displayed when the user clicks a channel link, which then takes the place of a cover page.

D

Database Configuration Application (DCA)

A Content Management Server 2001 utility with which you can select and populate a Microsoft® SQL Server database. In addition, the DCA is used to select the virtual Web site (for the MSCMS 2001 server and the Server Configuration Application), and to select a new MSCMS 2001 System Account and the Initial MSCMS 2001 Administrator for a new installation. After you have used the DCA for a new installation, further use will be to select a new database.

(See also *Server Configuration Application*.)

destination directory, staging

The destination directory is the directory that receives the HTML or ASP "snapshots" of your Content Management Server 2001 site when it is staged with the MSCMS 2001 Site Stager.

destination server

The destination server is the MSCMS 2001 server that is importing the contents of an object package.

G

Guest User, Content Management Server 2001

If permissions for guest access have been set, Content Management Server 2001 uses this account for anonymous site visitors. Guest users must be granted rights to channels and postings, just like any other MSCMS 2001 subscriber.

I

IIS – Internet Information Server

Microsoft's Web server software that runs on the Windows 2000 platform.

Initial Content Management Server 2001 Administrator

The "Administrator, Content Management Server 2001" created by the DCA when creating or upgrading a database. Initially, this is the only user who can log on to Content Management Server 2001 through the MSCMS 2001 Site Builder.

(See also *Administrator, Content Management Server 2001*.)

M

Microsoft® Content Management Server 2001 system

A Microsoft Content Management Server 2001 (MSCMS 2001) system is the MSCMS 2001 server, all the MSCMS 2001 Site Builders and Web Authors that connect to the server, and the database. Content Management Server 2001 can also include multiple MSCMS 2001 servers doing different functions, such as development, staging, or production.

O

object package

A file that contains objects exported from a Content Management Server 2001 system using the Site Deployment Manager. Object packages have the .ROP file extension and .ROP files can be imported to another MSCMS 2001 system.

(See also *Site Deployment Manager.*)

R

rights

A Content Management Server 2001 user's rights are derived from their membership in one or more rights groups and the roles (subscriber, author, editor) they have in the containers (folders, channels, galleries) assigned to those rights groups. All containers you have rights in or rights to have colored icons.

- The rights group(s) you belong to determines which containers you have rights in.
- The role of the rights group(s) you belong to determines the types of tasks (create, modify, approve) you can do with items in a container.

(See also *rights group, role.*)

rights group

A rights group is a group of users assigned to one of the Content Management Server 2001 predefined roles. Members of a rights group hold privileges to containers, based on the role the rights group represents. Authors, for example, can create pages in a folder, while editors can both

create and approve pages in folders. Access to specific containers (folders, channels, galleries) is set for a rights groups by an MSCMS 2001 administrator.

(See also *rights, role*.)

role

In Content Management Server 2001, your role (subscriber, author, editor, moderator, template designer, administrator, resource manager) determines what actions you can carry out in containers. The different roles and the tasks allowed by those roles, are key components of the collaborative content management process.

(See also *rights*, *rights group*.)

S

server, MSCMS 2001

The MSCMS 2001 server is a machine that hosts the Microsoft Content Management Server 2001 software. This server is connected to an MSCMS 2001 database and interacts with MSCMS 2001 Site Builder or Web Author software.

Server Configuration Application (SCA)

A Content Management Server 2001 utility used to configure individual or multiple (server farms) MSCMS 2001 servers. After a new installation, users can selectively configure, globally or specific to one server, activities such as changing the MSCMS 2001 system account, and adding and removing supported NT Domains, Active Directory, containers, and Site Server organizational units (OUs) as the network topology changes or grows.

Site Builder, MSCMS 2001

A client-side, WSIWYG (what-you-see-is-what-you-get) authoring environment that operates on a Windows 32-bit platform. The MSCMS 2001 Site Builder is used to develop pages and navigation templates, develop code with the API, and do site administration tasks. The MSCMS 2001 Web Author should be used for all authoring, editing, and moderating functions.

Site Deployment Manager

The Site Deployment Manager is an add-on product that allows objects such as resources, template, and galleries to be exported and imported from one MSCMS 2001 system to another. The most common application of site deployment is to move data from a development server to a production server. Site deployment can be done by a site administrator only.

Site Stager, MSCMS 2001

A Content Management Server 2001 application that takes HTML or ASP "snapshots" of part or all of your Web site, thereby allowing you to host this content from another directory or server. MSCMS 2001 Site Stager allows you to reduce browser traffic on your MSCMS 2001 site, and to host your site on non-Windows platforms.

Stage As User

The "Stage As User" is a Windows 2000 user account whose container rights determine which channels and postings are staged by the MSCMS 2001 Site Stager. The "Stage As User" isn't a real user. It is a dedicated Windows 2000 user account that an administrator must create for staging to occur. Creating the Stage As User involves creating a Windows 2000 user account, and adding its user name to Content Management Server 2001 subscriber or administrator rights group. When Site Stager stages a site, it stages the channels assigned to members of this rights group.

staged site

The MSCMS 2001 Site Stager allows you to create a static HTML site that can be ported to various platforms. A staged site consists of HTML "snapshots" taken of the channels and postings or views of pages of the Content Management Server 2001 site to be staged. The contents of the staged site can be hosted on a Web server for users who want to browse published content on your site.

staging schedule

The staging schedule, which can be set from the Profile Properties dialog box, determines when a particular staging profile is staged.

staging profile

A staging profile is a collection of all the information the MSCMS 2001 Site Stager needs to stage a site. A profile contains a name (to distinguish it from other profiles), the directory of the site to be staged, the channels to be staged, and a schedule that sets the staging frequency. You can have more than one staged site by creating a different profile for each one.

Site Stager, destination directory

The directory on the machine that receives the HTML "snapshots" of a Content Management Server 2001 site being staged.

Site Stager, Site Map URL

The MSCMS 2001 Site Stager Site Map URL points to a file (sitemap.asp) that generates a description of the Content Management Server 2001 system to be staged.

Subscriber

Content Management Server 2001 subscribers have access through their Web browser to view MSCMS 2001 pages in the channels to which they're subscribed.

system administrator, Content Connector

The system administrator's job in Content Connector is to install Content Connector, customize and deploy the Method Systems sample site, and to create Content Management Server 2001 user groups, channels, and resource gallery.

W

Web Author, MSCMS 2001

The MSCMS 2001 Web Author allows authors, editors, and moderators to create and approve pages from a Web browser. The MSCMS 2001 Web Author is a Web application that uses server-side and client-side scripting to generate an editable version of an existing or new posting.

Index

Symbols

.MSI package 8

Numerics

3rd Party Software Requirements
dialog box 22, 24

A

access
MSCMS 2001 System Account 11
to MSCMS 2001 12
access rights 59
Active Directory Service Interfaces. *See* ADSI
Active Directory services 57
ADSI
supported version 4, 65
anonymous access 18, 32, 54

B

background clean-up
backing up resources 47
to save space 45
backing up
expired postings 47
managing background clean-up 45
resources 47
Basic UI mode 8
batch file
for installing in Silent mode 10
Business Desk
launching first time 85
unpacking Methods Systems site 79
URL 85

C

cache
changing location 48
changing size 48
folder 3
canonical form 58
changing cookie settings 7
command line options
Windows Installer 8
configurations
supported by MSCMS 2001 3
container viewing rights 44
Content Connector
configurations supported 73
configuring 74
configuring IIS virtual directories 84
deleting a site 86
deleting databases 86
deleting global resources 86
installing 77
multiple server machines 79
software requirements 73
uninstalling 88
cookie encryption key 14
Customer Information
dialog box 22

D

Database Configuration Application. *See* DCA
database installation
error messages 92
databases
backing up 30
for Membership Server 18
space needed 47
supported 3
DCA
launching 32
deleting a Content Connector site 86
deleting the databases 86
Destination Folder
dialog box 22
Destination User account
for Site Stager 66

Disk Cache Folder
dialog box 22
distinguished name (DN) form 58
Domain Controller
accessing user information 12
domain user account
creating 11
domains
selecting 12

E

error messages
database installation 92
MSCMS 2001 server installation 91
MSCMS 2001 Site Builder 93
SCA 93
SQL Server 92
Evaluation edition
expiry date 61
expired postings
backing up 47

F

FAT system 3
first-time installation 7
Full UI mode 8

G

global resources
deleting 86
guest access 13
guest user rights 82
guest users
adding account to group 13
creating an account for 13

H

hardware requirements
MSCMS 2001 server 3
hierarchical URLs 44

I

IIS
stopping during install 21
Initial MSCMS 2001 Administrator 12, 59
install modes 9
installing
Content Connector 77
MSCMS 2001 Site Builder 23
MSCMS 2001 Site Stager 65
rights required 21, 31
InstallShield Wizard 39
for uninstalling 25
using 21
Internet Explorer
version required 23
XML parser for Site Stager 65

J

Java Virtual Machine
version for Site Stager 65

L

LDAP accounts
as subscribers 6
selecting organizational units 53
LDAP authentication 17
LDAP service
configuring 17, 18
License Agreement
dialog box 22
Licenses tab 61
licensing information
displaying 61
log file 25
Login user name
authenticating user 58

M

MDAC
  supported version 4
Membership Server 17
  authenticating with 53
  creating 18
Method Systems Business Desk 85
MethodSystems.pup 78, 79, 81
Microsoft Commerce Server 2000 73
Microsoft Task Scheduler Service 65
Microsoft® SQL Server
  supported versions 3
MSCMS 2001
  database requirements 3
  security 12
MSCMS 2001 administrator
  initial account 12
MSCMS 2001 database 3
MSCMS 2001 server
  hardware requirements 3
  installation error messages 91
  Site Server requirements 6
MSCMS 2001 server software requirements 4
MSCMS 2001 Site Builder
  error messages 93
  hardware requirements 5
  installation 23
  software requirements 5
MSCMS 2001 Site Stager
  installing 65
  uninstalling MSCMS 2001 25
MSCMS 2001 System Account 11, 59
  defined 59
  dialog box 33
  in multiple-server configurations 59
  passwords 59
  selected with the DCA 21
  when selected 7
multiple-server configurations 59
  Content Connector 74
  Membership Server 17
  synchronizing cookie encryption key 14
multiple-server environment 7

N

NetBIOS
  enabling over TCP/IP 11
NTFS
  prerequisite 3

O

ODBC driver
  requirements 4
organizational units 53

P

password 59
passwords
  MSCMS 2001 System Account 59
PreMethodSystems.vbs files 79
product license keys 21
pruning containers 44

R

registry keys settings 7
requirements
  database 4
  MSCMS 2001 server 6
  MSCMS 2001 Site Builder hardware 5
  Site Builder software 5
  user requirements for installation 21, 31
resources
  backing up 47
  persisting to database 47
restarting your computer 24
root virtual directory 54

S

sample site
  unpacking 74
SCA
  cache 48
  error messages 93
  standalone mode 39
  tasks done 39

scripted installations 8
security
  configuring 30
Select a database platform to use
  dialog box 33
Select Initial MSCMS 2001 Administrator
  dialog box 34
Select Program Folder
  dialog box 24
server and database
  space needed 47
server background clean-up
  defined 45
Server Configuration Application. *See* SCA
server farm
  clustered mode 21
Services Control Panel 68
setting up registry keys 21
Setup Complete
  dialog box 24
shared files 3
Silent mode 8
Silent or Basic UI install
  license agreement 8
SimulateUnpack.bat 84
single-server configurations
  Content Connector 74
single-server mode 21
Site Package directory 82
Site Server
  configuration 17
  configuring IIS 53
  configuring SQL database 18
  supported versions 6
Site Server authentication
  configuring LDAP 18
  creating a Membership Server 18
  installation summary 17
Site Server integration 17
Site Stager
  installation prerequisites 65
software requirements
  Content Connector 73
special characters
  in domain and user names 30
specifying 44
SQL Server
  error messages 92
Start Copying Files
  dialog box 24
subscribers 5
system drive 3

U

uninstalling Content Connector 88
uninstalling MSCMS 2001 25
unique ID-based URLs 44
unpack window 81
unpacking sample site
  single server 78
unpacking the sample site 74
URLs
  hierarchy-based 44
  unique ID-based 44
user accounts
  creating 13
User Information
  dialog box 24
User Principal Name 58

V

viewing rights to containers 44
viewing users on a domain 12
virtual Web site
  setting up 17

W

Windows 2000 accounts
  used by MSCMS 2001 11
Windows 4.0 NT form 58
Windows administrator rights
  Site Stager 65
Windows Installer package 8
Windows NT
  creating domain user account 11
Windows Start menu 24