

Ektron CMS400.NET Setup Manual

Version 7.0, Revision 8

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Version 7.0, Revision 8

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LA10031, Revision 1.7

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Securing Ektron CMS400.NET

Security Checklist

The following is a checklist of things an Administrator must do to secure **Ektron CMS400.NET**.

	Change	Admin	user	password
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Change builtin user password

IMPORTANT! If you changed the builtin user password during the site setup, you do not need to change it again. See "Editing Builtin" on page ii for additional information.

□ Remove Sample Users and Sample Membership Users

IMPORTANT! Some users in this list might not appear in your User list. This depends on which version of the software you have installed.

CMS400.NET Users	Membership Users
🔲 jedit	🔲 jmember
🗌 Admin2	member@example.com
🔲 tbrown	🔲 north
🔲 jsmith	supermember
🗌 vs	🔲 west
EkExplorerUser	
Explorer	

Additional Information

You *do not* need to make these changes if you are using the CMS400 for demonstration or evaluation purposes. These changes should be completed once the decision is made to purchase the product and go live with your site.

IMPORTANT!	Ektron recommends creating your own Administrator user and deleting the Admin user.
IMPORTANT!	Ektron recommends deleting any users from the CMS400 that are not needed on the system.
IMPORTANT!	By default, when the Ektron Explorer client is installed, the Explorer or EkExplorerUser username and password are also installed. Client-side users should use their Ektron CMS400.NET username and password when using the Ektron Explorer. To learn how to change this information, see the Administrator Manual section "Ektron Explorer" > "Configuring Ektron Explorer."

The Everyone Group

By default, the root folder in Workarea provides the Everyone Group with all permissions except Overwrite Library. Ektron Inc. recommends reviewing the permission needs of the Everyone Group when you add folder. For information on Permissions, see the Administrator Manual section "Managing User and Permissions" > "Setting Permissions."

Editing Builtin

IMPORTANT!

The "builtin" user does not appear in the Users list. This user appears on the application setup screen.

To change the builtin account information, follow these steps.

- 1. In the Workarea, click **Settings** > **Configuration** > **Setup**.
- Click the Edit button ().
- 3. Locate the Built In User field.
- 4. Edit the built in user information by changing the username and password.
- Click the Update button (].

NOTE If you cannot sign in to **Ektron CMS400.NET** because the builtin user password was changed and you don't know the new password, use the BuiltinAccountReset.exe utility. This resets your **Ektron CMS400.NET** user \ password to Builtin \ Builtin. This utility is located in C:\Program Files\Ektron\CMS400versionnumber\Utilities.

ServerControlWS.asmx

Best Practice

For improved security, Ektron recommends renaming or removing the Web services file when you move it to your production server. After installation, this file is named ServerControlWS.asmx and resides in the *webroot/siteroot/*Workarea folder.

ServerControlWS.asmx is the Web service that lets the server controls talk to **Ektron CMS400.NET**. The path is coded in the web.config file. This is how it appears:

<!-- Web Service URL for Server Controls design time --> <add key="WSPath" value="http://localhost/CMS400Min/Workarea/ServerControlWS.asmx" />

You will need to edit this line if you change the location or name of the ServerControlWS.asmx file.

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System Requirements

The following components are required when developing or viewing an Ektron CMS400.NET based application.

- "Server Requirements" on page 1
- "PC Client Requirements" on page 2
- "Apple Macintosh Client Requirements" on page 3
- "Optional Software" on page 4

Server Requirements

Component	Requirements	
Recommended hardware configuration	 Intel® Pentium® 4 supporting Hyper-Threading or Intel® Xeon® processor (with 800MHz bus) 1 GB RAM or higher RAID array for hard drives 	
Web server operating system	Microsoft ® Windows® 2003 Server <i>recommended</i> Microsoft ® Windows® 2000, XP Professional Note: XP Home does not support IIS.	
Web application server	 Microsoft .NET ™ Framework 2.0 (required) Microsoft Active Server Pages Macromedia ColdFusion MX or higher PHP JSP 	

Component	Requirements	
Web server	Microsoft® Internet Information Server (IIS) 4.0 or higher	
Database	Any database listed below.	
	Important: Ektron CMS400.NET does not support mixed case databases.	
	● SQL [™] Server 2005	
	SQL [™] Server 2005 Express	
	Oracle® Database 10g	
	 SQL[™] Server 2000 (Enterprise or Standard version) 	
	Microsoft ® MSDE 2000	

PC Client Requirements

Component	Requirements	
Operating system	Any IBM-PC compatible system running Windows, including Vista Vista® Ultimate and Vista® Business (suggested minimum: Pentium 166 MHz or faster with 64MB of RAM)	
Browsers for viewing	 All major browsers including: Microsoft Internet Explorer 3.0 through 7.0 Netscape Navigator Version 3.0 through 7.2 Mozilla Firefox 1.0 	

Component	Requirements	
Browsers for editing	Mozilla Firefox 1.0	
	Microsoft® Internet Explorer 5.0 through 7.0	
	Netscape ® 7.2	
	Note: If using Netscape, IE 5.0 through 7.0 must be installed.	
	Note : If using Firefox, uncheck the Block Popup Windows setting. To access this setting, go to Tools > Options > Content .	
	Note : When using the Document Management feature, you must use a browser that supports ActiveX.	
	Important : For issues when using Microsoft Windows Server 2003 as a client, see "Using Microsoft Windows Server 2003 as a Client (Web Folders Setup)" on page 97.	
Hardware	Any IBM-PC compatible system running Windows (suggested minimum requirements: Pentium 166 MHz or faster with at least 64MB of RAM)	
Web development tools	Visual Studio 2005	

Apple Macintosh Client Requirements

Component	Requirements	
Operating system	MAC OS X	
Browsers for viewing	All major browsers including: • Microsoft ® Internet Explorer • Netscape Navigator ® • Mozilla Firefox 1.0	

Component	Requirements	
Browsers for editing	 Apple Safari (Recommended) Mozilla Firefox 1.0 Microsoft® Internet Explorer Netscape ® Important: If you use any browser other than Apple Safari, a text box appears in place of the WYSIWYG Integrated Macintosh Editor. 	
Hardware	Apple Macintosh	

Optional Software

Component	Requirements
Web development tools	Visual Studio 2005 Macromedia HomeSite Adobe Coldfusion Studio Adobe Dreamweaver Microsoft FrontPage NotePad Visual Web Developer 2005 Express <i>For Web site development</i> Visual C# 2005 Express and Visual VB 2005 Express <i>For Plug-in Extensions creation</i> Adobe Dreamweaver

NOTE Ektron does not guarantee support of beta releases for components listed above.

Preparing for Windows XP SP2

Microsoft Windows XP Service Pack 2 includes significant changes affecting **Ektron CMS400.NET** security, especially in regard to the installation of the eWebEditPro ActiveX control. The most significant change affects the eWebEditPro+XML editor in data design or data entry modes. To work around this change, configure **Ektron CMS400.NET** to allow pop-up windows for automatic download and installation.

More Information on Windows XP Service Pack 2

For more information on Windows XP Service Pack 2, visit the Microsoft site at www.microsoft.com/technet/prodtechnol/winxppro/ maintain/winxpsp2.mspx. One article on that site of particular interest to developers is "Changes to Functionality in Microsoft Windows XP Service Pack 2". Part 5 of that article, "Enhanced Browsing Security," details changes to Internet Explorer.

Disabling the Popup Blocker

Pop-up windows are used to initially install the editor in Internet Explorer (IE) and by other features, such as selecting an image and setting Section 508 Data Table properties. By default, Windows XP SP 2 blocks pop-up windows. For Ektron products to operate effectively, allow pop-up windows for web sites that host Ektron products.

Enabling Popup Windows

When a Web page in IE running on Windows XP Service Pack 2 (XPSP2) attempts to open a pop-up, the Information Bar appears at the top of the page. The message on the Information Bar is **Pop-up blocked**. To see this pop-up or additional options click here...

To allow proper operation of the editor, enable pop-up windows for the Web site. To do so, click the Information Bar and select **Always Allow Pop-ups from This Site**.



For easier administration, add the Web site as a Trusted site. By default, this change disables the pop-up blocker.

Download and Installation with Windows XP SP2

The installation of the Ektron editor is only required the first time it is used and for every upgrade. The automatic installation supported in IE uses a pop-up to walk the user through the process. Therefore, the first step is to enable pop-up windows (see "Enabling Popup Windows" on page 5). An additional step to install the editor requires an extra mouse click by the user. If you are an administrator, you may want to configure client computers to avoid these extra steps. One simple way is to add the Web site that hosts Ektron products as a Trusted Site.

When installing the editor, the user should follow these steps.

- 1. When the Automatic Download and Installation page appears, click the **Install** button.
- 2. When the next window appears, the Information Bar displays this message:

To help protect your security, Internet Explorer stopped this site from installing an ActiveX control on your computer. Click here for options...

- In place of the editor, the following message appears.
 Click here to install the following ActiveX control: 'eWebEditPro' from 'Ektron Inc'...
- 4. Click on either message and select Install ActiveX Control...

🕘 http://www.ektron.com - eWebEditPro Installation - Micros 📰 🗖	×
To help protect your security, Internet Explorer stopped this site from installing an ActiveX control on your computer. Click here for options	×
eWebEditPro Automatic Download and Installation	<
If successful, the words "Installation complete" will appear in the box below.	
Instal ActiveX Control What's the Risk?	
If a small red X appears, try downloading the <u>client installation</u> program and running it.	~

Development and Staging Configurations

This chapter presents five examples of how to configure your **Ektron CMS400.NET** Web site. Reading this will help you decide which configuration is the best fit for your particular situation.

Configuration	Properties	Implementation Guidelines
Virtual Staging	 Use CMS400.NET's approval process and scheduled publishing of content to manage when content goes live 	"Virtual Staging" on page 11
Multiple sites, Same Server, Same Database	 Production and development/staging sites use separate copies of Ektron CMS400.NET but reside on same server and point to same database Ektron CMS400.NET's settings, man- aged content, and library files are identi- cal between sites 	"Same Server, Same Database" on page 14
Multiple sites, Same Server, Different Databases	 Production and development/staging sites use separate copies of Ektron CMS400.NET's display layer, reside on same server, but point to different databases Changes to content, configuration, or library files made in one site must be copied to other site 	"Same Server, Different Databases" on page 12

Configuration	Properties	Implementation Guidelines
Multiple sites, Separate Servers, Same Database	 Production and development/staging sites reside on separate servers, which point to the same database. 	"Separate Servers, Same Database" on page 15
	 Ektron CMS400.NET settings, content, and library files are identical between sites. 	
	 Changes to templates must be copied between servers. 	
Multiple sites, Separate Servers, Separate Databases	 Production and development/staging sites are installed to separate servers and point to different databases 	"Separate Servers, Separate Databases" on page 17
	 Changes to content, configuration, or files must be copied between sites. 	

After deciding which configuration is best, read the following sections to learn about procedures for working with multiple sites, servers, and databases.

- "Installing Ektron CMS400.NET on Several Servers" on page 18
- "Copying the Site and Database to Other Environments" on page 20
- "Moving Files Among Servers After Installation" on page 21

Virtual Staging



Staging is accomplished through Ektron CMS workflow process.

- Best choice when changes to templates and library files assets are infrequent
- No special implementation guidelines; just an installation on one server
- When upgrading this type of site, make a temporary copy of the site (both display layer and database) on a separate server to test the upgrade

Same Server, Different Databases



To set up this configuration, follow these guidelines.

- To maintain file paths between sites, follow these steps.
 - Create separate Web Sites in IIS.
 - Assign different ports to the production and development/ staging sites. For example, the production site is http://
 www.example.com, and the development/staging site is http://
 www.example.com:8080.
 - Separate the databases for isolation.
 - * One database is the master, and the other is a copy
 - * Only edit content in the site connected to the master database

* Remove the **Ektron CMS400.NET** login page from the site connected to the copy database

 To copy the Ektron CMS400.NET database, your best choice is Ektron's Site Replication feature. This is described in the Ektron CMS400.NET Administrator manual section "Managing Your CMS400 System" > "Site Replication."

If you have not implemented Site Replication, copy site content using a replication tool for the database.

- SQL Server 2000 SDK Replication see http:// msdn.microsoft.com/library/en-us/replsql/ replover_694n.asp
- Oracle 9i Replication Technical White Paper see http:// www.oracle.com/technology/products/oracle9i/pdf/ oracle9i_replication_twp.pdf
- Library files Make the Ektron CMS400.NET uploadedimages/ and uploadedfiles/ folders IIS virtual directories that point to the same physical directory. This procedure is explained in the Ektron CMS400.NET Administrator Manual section "Load Balancing" > "Configuring Load Balancing without Site Replication" > "Set Up Virtual Directories for Two Web Sites."
- Templates and other file system assets The best way to move these is Site Replication. If that was not implemented and changes to these items are infrequent, you can manually copy them. For automated replication, use a product such as Microsoft Application Center.
- Upgrading Ektron CMS400.NET To test an upgrade, make a temporary copy of the site's display layer on a separate server connected to the development/staging database. If the development/staging database is the master, back it up before upgrading.

Same Server, Same Database



Case 3: Same

To set up this configuration, follow these guidelines.

- To maintain file paths between sites, follow these steps.
 - Create separate Web Sites in IIS.
 - Assign different ports to the production and development/ staging sites. For example, the production site is http://
 www.example.com, and the development/staging site is http://
 www.example.com:8080.
- Both sites must use the same pathing relative to the Web root. For example, www.example.com\Workarea\applicationAPI.asp and dev.example.com\Workarea\applicationAPI.asp.
- Because both sites use the same database, editing and publishing content on one site affects the other site. As a result, the development/staging server always has the freshest content.
- Make the Ektron CMS400.NET uploadedimages/ and uploadedfiles/ folders IIS virtual directories that point to the same physical directory.

This procedure is explained in the **Ektron CMS400.NET** Administrator Manual section "Load Balancing" > "Configuring Load Balancing without Site Replication" > "Set Up Virtual Directories for Two Web Sites."

 Template changes must be copied between sites. The best way to copy site templates and other file system assets is Site Replication. This is described in the Ektron CMS400.NET Administrator manual section "Managing Your CMS400 System" > "Site Replication."

If that was not implemented and changes to these items are infrequent, you can manually copy them. For automated replication, use a product like Microsoft Application Center.

5. To test and QA an upgrade, make a temporary copy of the site's display layer on a separate server connected to the development/staging database.

Case 4: Separate

If the development/staging database is the master, back it up before upgrading.

Separate Servers, Same Database



To set up this configuration, follow these guidelines.

 Configure Ektron CMS400.NET's Load Balancing feature to copy uploaded images and files between the servers.

This procedure is explained in the **Ektron CMS400.NET** Administrator Manual section "Load Balancing" > "Configuring Load Balancing without Site Replication" > "Set Up Virtual Directories for Two Web Sites."

 The best way to move site templates and other file system assets is Site Replication. This is described in the Ektron CMS400.NET Administrator manual section "Managing Your CMS400 System" > "Site Replication."

If that was not implemented and changes to these items are infrequent, you can manually copy them. For automated replication, use a product like Microsoft Application Center.

- When upgrading Ektron CMS400.NET, follow these steps.
 - Back up the file system of the development/staging server
 - Make a temporary copy of the production server database
 - Switch the development/staging site to use the copy
 - Test and QA the upgrade on the development/staging server

Separate Servers, Separate Databases



To set up this configuration, follow these guidelines.

- Both sites must have the same pathing relative to the Web root, for example, www.example.com\Workarea\applicationAPI.asp and dev.example.com\Workarea\applicationAPI.asp.
- Separate the databases for isolation.
 - One database is the master, and the other is a copy
 - Only edit content in the site connected to the master database
 - Remove the Ektron CMS400.NET login page from the site connected to the copied database
- The best way to copy site templates and library files is Site Replication. This is described in the Ektron CMS400.NET Administrator manual section "Managing Your CMS400 System" > "Site Replication."

If that was not implemented and changes to these items are infrequent, you can manually copy them. For automated replication, use a product like Microsoft Application Center. To copy the Ektron CMS400.NET database (containing HTML and XML content), your best choice is Ektron's Site Replication feature.

If you have not implemented Site Replication, copy site content using a replication tool for the database.

- SQL Server 2000 SDK Replication see http:// msdn.microsoft.com/library/en-us/replsql/ replover_694n.asp
- Oracle 9i Replication Technical White Paper see http:// www.oracle.com/technology/products/oracle9i/pdf/ oracle9i_replication_twp.pdf
- Make the Ektron CMS400.NET uploadedimages/ and uploadedfiles/ folders IIS virtual directories that point to the same physical directory.

This procedure is explained in the **Ektron CMS400.NET** Administrator Manual section "Load Balancing" > "Configuring Load Balancing without Site Replication" > "Set Up Virtual Directories for Two Web Sites."

- When upgrading Ektron CMS400.NET, follow these steps.
 - Back up the file system of the development/staging server
 - Make a temporary copy of the production server database
 - Switch the development/staging site to use the copy
 - Test and QA the upgrade on the development/staging server

Installing Ektron CMS400.NET on Several Servers

Perform these steps on the development server.

- Download and run the Ektron CMS400.NET installation file, CMS400Base.exe. (This procedure is fully documented in "Running the Installation and Setup Program" on page 73.)
- 2. In Windows Explorer, create a folder to be used for development (for example, c:/cmsdev).
- Run the Site Setup utility by clicking Start > Programs > Ektron > Utilities > CMS400 Site Setup. This installs the site on the development server. (This procedure is fully documented in "Setting up a Site" on page 78.)

- At the Setup Type page, select CMS 400 (Complete).
- On the Site Setup screen, at the Select Site dropdown, select the site you created in Step 3, dev.example.com. At Select Host, select the host you entered for dev.example.com.
- On the Site Path Directory screen, browse to the C:\cmsdev folder.
- On the **Host screen**, enter **http://dev.example.com** or an IP address.
- The following windows prompt you to define the Asset Storage Location. Enter C:\assetlibrary\cmsdev and C:\assetcatalog\cmsdev.
- 4. The Database Setup utility begins. (This procedure is fully documented in "Setting up a Database" on page 87.)
 - Enter your database name, **cmsdev** to continue the example. (Do not leave it as **localhost**.)
 - Enter your database server information, then the host, user and password.
 - The database is created.
- 5. The cmsdev folder should now look like this.

😂 cmsdev		
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> oo	ls <u>H</u> elp	an a
🌀 Back 🝷 🌍 🍷 🏂 🔎	Search 🤂 Folders 🛄 🗸	
Address 🛅 C:\cmsdev		in 🔁 🔁 Go
	App_Code	AssetManagement.config
File and Folder Tasks 🙁	🔲 🗀 AssetManagement	🕞 CMS400Min.sln
	assets	al explorerappsettings.aspx
Make a new folder	🦲 🗀 bin	睯 explorerappsettings.aspx.vb
Publish this folder to	i uploaded files	🔊 login.aspx
the web	🚞 uploadedimages	睯 login.aspx.vb
Share this folder	🚞 Workarea	📑 Web.config
	AssemblyInfo.vb	
Other Places	~	

The site is ready for use. Open Internet Explorer and go to http:// dev.example.com/login.aspx to test the site. Log in to make sure the database is working.

6. Using steps 1 through 5 above, install sites to your staging and production servers.

Copying the Site and Database to Other Environments

Once your project is ready to be tested in house, move the site to a staging server. When the project is ready to go live, move the site to a production (live) server.

You can use the same database for all environments. Back up that database often to keep it safe. Alternatively, create a separate database for each server. For more information about how to configure your **Ektron CMS400.NET** Web site, see "Development and Staging Configurations" on page 9.

Tips on Creating Additional Environments

To create new environments, follow these steps.

- 1. On the same server or a separate server, create new folders for Ektron CMS400.NET: C:/cmsstage and/or C:/cmsproduct.
- 2. In IIS, create a new domain for each server. http://stage.example.com points to c:/cmsstage and http://www.example.com points to c:/cmsproduct.
- 3. If all environments are on the same server, you don't need to copy other folders. But, if you are using a separate server for each environment, copy the c:/assetcatalog and c:/assetlibrary folders to the other servers.
- 4. For the database, access the SQL manager and make a backup of the development database. Then, create new databases for staging and production. Finally, restore the backup of the development database to the staging and production databases.
- 5. In the staging and production environments, open web.config. Then, update the database connection information so that it points to the new databases.

6. Test the staging and production environments.

Moving Files Among Servers After Installation

After initial setup, you can copy additional files among servers manually or use Site Replication.

You can set up Site Replication to accommodate two or three servers, as illustrated below. Once Site Replication is set up, you can replicate all files, assets, and the database. Or, you can replicate files and assets but not the database.



To set up Site Replication for this purpose, follow these guidelines.

(To learn about Site Replication, see the **Ektron CMS400.NET** Administrator manual section "Managing Your CMS400 System" > "Site Replication.")

Setting up Site Replication for Two Servers

Follow these steps when your configuration consists of two servers, staging and production.

- 1. On the development server, install Site Replication as a Sending server.
- 2. On the production server, install Site Replication as a Receiving server.

Setting up Site Replication for Three Servers

Follow these steps when your configuration consists of three servers: development, staging, and production.

- 1. On the development server, install Site Replication as a Sending server.
- 2. On the staging server, install Site Replication as a Receiving server.
- 3. Test this configuration and make sure it works.
- 4. Run the installation again on the Staging Server, but this time, set it up as a Sending server.
- 5. On the Production server, install Site Replication as a Receiving server.
Upgrading Ektron CMS400.NET

Upgrading From Version 6 to Version 7

This upgrade procedure copies **Ektron CMS400.NET**'s latest features to your Web server. **CMS400.NET** is installed to its own folder, **CMS400v7x**. This means it can coexist on the same machine with previous versions -- the template directories are independent.

NOTE For *Site Replication* users only - If you upgrade a staging server from version 5.2 to 6.0 but don't choose to upgrade the production server, you need to complete some steps to make the two systems compatible. This procedure is explained in "Updating a Site Replication Production Machine after Upgrading from 5.2 to 6.0" on page 59.

The Base Folder

The upgrade installs a base folder (C:\\Program

Files\Ektron\CMS400v7x), which provides a template for setting up **Ektron CMS400.NET** Web sites. The Site Setup utility uses the files in the base folder to create and upgrade **Ektron CMS400.NET** sites.

The base folder contains the following subfolders.

Subfolder	Includes
AssetLibrary	Default Document Management files for site
Bin	Required .NET assemblies for Ektron CMS400.NET
CMS400Min	A minimal set of files site that is best for new integrations
DMS400	Folders and files for the Document Management Functionality
Documentation	Documentation. The site setup procedure copies this directory to the workarea directory when setting up a site.

Subfolder	Includes	
EktronAsyncProce ssor_Service	Files needed to add Asynchronous Processor for Web Alerts	
SiteSetup	The sitesetup.exe utility and the needed database setup scripts	
StudioHelp	Files necessary for adding the API help to Visual Studio 2005	
Utilities	Utilities for	
	database upgrade	
	 database application strings update 	
	email encrypt password tool	
	a setup Sharepoint Portal	
	Document Management Registration tool	
	Load Balancing service files	
Workarea	Scripts used for the Workarea	
	Note: The contents of this folder are later copied to a Web site folder, typically in the Web server's web root. The sample provides a good way to learn how to work with an Ektron CMS400.NET site. An alternative is the minimum database. Use this when you understand how to create a site and do not want to place extra, sample files on your server.	

The Upgrade Procedure

Upgrading involves the following tasks.

- 1. Install new files to the new directories. See Also: "Running the Installation and Setup Program" on page 73
- 2. Copy these folders to the site directory.
 - ●bin
 - workarea
 - •cms400Min

Documentation

- 3. Update the web.config file with new settings.
- Update your databases using the upgrade and language update utilities. See Also: "Performing the Upgrade" on page 25
- If needed, modify the site to use the server controls. See Also: Ektron CMS400.NET Developer Manual section "Ektron CMS400.Net Server Controls" > "Making the Server Controls Available" > "Updating the Server Controls"

NOTE After you upgrade Ektron CMS400.NET, you may notice that, for some content that inherits the following property from their folders, the field is not checked: The content in this folder is private and can only be viewed by authorized users and members. To resolve this problem, edit the content's View Permissions for Content screen and manually check the box. Before you can check the checkbox, you must disable inheritance. After checking the box, enable inheritance.

NOTE The upgrade automatically starts the IIS Indexing service.

This chapter walks you through the upgrade process.

See Also: "Database Entry Implications When Restoring or Moving a Ektron CMS400.NET Database" on page 47

Performing the Upgrade

 Follow the steps of the installation procedure, "Running the Installation and Setup Program" on page 73. These steps instruct you to install Ektron CMS400.NET and restart your server. Return to step two when the Site Setup Selection appears.



 3. The Setup Type screen appears. Choose an option to upgrade. CMS400 (Complete) - Choose if you are installing a new CMS400.NET installation. CMS400 Database Setup - Choose to set up a new database. Upgrade / Reinstall - Choose to upgrade or reinstall CMS400.NET. 	CMS400 - InstallShield Wizard Setup Type Select the setup type that best suits your needs. Thank you for installing CMS400. The following wizard will allow you to setup, u reinstall a CMS400 site. CMS400 (Complete) CMS400 Database Setup Upgrade / Reinstall
 4. A message recommends backing up your Web site before proceeding. Important! Ektron strongly urges you to do this. If you back up and then encounter any problems during installation, you can return your site to its state before the installation. After backing up your site, click OK to proceed. 	CMS400 - InstallShield Wizard Ektron recommends that you backup your site and database prior to any upgr OK

5.	Choose an application directory. If you are not sure, use the default (C:\\Program Files\ Ektron\CMS400v7x).	CMS400 Site Setup - InstallShield Wizard
		CMS400 Application Directory
	This directory stores Ektron CMS400.NET components and utilities.	Please select your CMS400 Application Directory. This is typically under your Program Files\Ektron directory.
		Destination Folder C:\Program Files\Ektron\CMS400v60 InstallShield < <u>Back</u> Next > Cancel

6. T s S h	The Select Host		
	screen appears.	Please select which	site and host you would like to use
	Select the site and host.	Ektron CMS400	Site Setup
		Please select the	site and host you would like to install to.
		Select Site:	Mike Watson & Associates
		6 J. J. J. J.	192,168,0,202
		Select Host:	Enter Host Manually
		5	
		Enter Host:	1
		InstallShield	
			<u>B</u> ack <u>N</u> ext <u>C</u>

7.	Choose a site path directory. If you are not sure, use the default (webroot/ cms400Min).	CMS400 - InstallShield Wizard Site Path Directory
	The site directory maintains Web site templates, the CMS400 Workarea directory, etc. Note that the upgrade only updates the web.config file, Ektron CMS400.NET assembly files, Ektron	Please select the directory where your CMS400 site is located. This upgrade will only update the web.config, CMS400.Net assemblies, Workarea, and the WebService components. It will not update your templates or any other files.
	files, and Web Service components. It does not update your templates nor other files not mentioned above.	Destination Folder c:\inetpub\wwwroot\CMS400Demo InstallShield < <u>Back</u> Next >

8. The Workarea Backup screen		
appears. Select a	appears. Select a	CMS400 - InstallShield Wizard
	folder in which to backup your Workarea files.	Workarea Backup
		Please select where you want the workarea directory to be backed up to.
		Destination Folder
		C:\\SiteBackups\Workarea_Backup_3-31-2006
		InstallShield
		< <u>B</u> ack <u>N</u> ext> C
0		
9.	screen appears.	CM3400 - IIIstalisilleiti Wizard RIN Backup
	which to backup your BIN files.	
		Please select where you want the bin directory to be backed up to.
		C Destination Folder
		C:\\SiteSetup\SiteBackups\bin_Backup_3-31-2006
		InstallShield
		< <u>B</u> ack <u>N</u> ext > C
<u> </u>		
10.	You are notified that file	es are moving to the starter site directory.

11. The Host screen appears. Enter the name of the host	CMS400 - InstallShield Wizard
to access the site. If you are unsure, use the default.	Host
	What is the server host name (including subfolder) you will be using to access this site? If you are unsure, please use the default.
	http://localhost/CMS400Example
	InstallShield < <u>B</u> ack <u>N</u> ext > C
12 The Choose	
Destination Location screen appears.	CMS400 - InstallShield Wizard
Enter the path to your AssetManagement Directory.	Choose Destination Location Select folder where setup will install files.
	Please enter the the path to your current AssetManagement Directory.
	C:\Inetpub\wwwroot\CMS400Example\AssetManagement
	Brow
	InstallShield
	< <u>B</u> ack <u>N</u> ext > C

13. You are notified that files are moving to Document Management location.

14. Your web.config file is updated with information needed to run Ektron CMS400.NET.

Only the section of the file between the <appsettings> tags and the section within <http modules> tags are affected. If other applications use the web.config file, the upgrade does not affect their sections.

Note: In the web.config file, the default setting for EnableMultilingual is off. Also, the DefaultContentLanguage is English (1033).

15. The Site Setup Completion Screen appears. Click Finish. The Database Upgrade Launches.

What Happens Next?

After upgrading your site and rebuilding the solution, you are ready to use **Ektron CMS400.NET**.

If you did not run the database upgrade or language update during the installation, you need to do it manually. The next sections explain how to do that.

Upgrading Your Database

If the database upgrade was unsuccessful during installation, or you chose to do it outside of the install, you need to manually upgrade your database. Use the Database Upgrade utility supplied with the installation program to do so.

See Also: "Database Entry Implications When Restoring or Moving a Ektron CMS400.NET Database" on page 47

Performing the Database Upgrade

WARNING! Ektron recommends backing up your database before performing an upgrade. For information on backing up a database, see "Backing Up Databases" on page 38.

To perform the database upgrade:

 Click the Windows Start button then follow this path: Programs > Ektron > CMS400 > Utilities > Database Upgrade. (If this path does not work, click the dbupgrade.exe file, located under the C:\Program Files\Ektron\CMS400v7x\Utilities folder.)



3.	Choose an application directory. If you are not sure, use the default (C:\\Program Files\ Ektron\CMS400v7x).	CMS400 Site Setup - InstallShield Wizard CMS400 Application Directory
	This directory stores Ektron CMS400.NET components and utilities.	Please select your CMS400 Application Directory. This is typically under your Program Files\Ektron directory.
		Destination Folder C:\Program Files\Ektron\CMS400v60 InstallShield < Back

 Choose a site path directory. If you are not sure, use the 		CMS400 - InstallShield Wizard
	default (webroot/ cms400Min). The site directory	Site Path Directory
	maintains Web site templates, the CMS400 Workarea directory, etc.	Please select the directory where your CMS400 site is located. This upgrade will only update the web.config, CMS400.Net assemblies, Workarea, and the WebService components. It will not update your templates or any other files.
	Note that the upgrade only updates the web.config file, Ektron CMS400.NET assembly files, Ektron CMS400.NET script files, and Web Service components. It does not update your templates nor other files not mentioned above.	Destination Folder c:\inetpub\www.root\CMS400Demo Browse InstallShield < Back
5.	A dialog box appears to notify you that your DMS database will be merged with your CMS database. Click OK .	Database Upgrade - InstallShield Wizard Image: Second
6. Ekt bac DN	A dialog box appears asking you to upgrade you CMS and DMS databases ron recommends sking up the CMS and IS databases.	Question Image: Would you like to backup your CMS400 and DMS databases? Image: Yes

7. The Database	
Backup screen appears. Select a	Database Upgrade - InstallShield Wizard
folder in which to backup your Workarea files.	CMS400 Database Backup Directory
	Please select where you want the CMS and DMS databases to be backed up to.
	Destination Folder
	C:\\CMS400v60\SiteSetup\DatabaseBackup
	InstallShield <u>Back</u> <u>Next</u> C
 This screen prompts for database connection information. Enter your database server information. 	CM5400 - InstallShield Wizard E SQL Server DB Setup Please enter the required information to connect to your MSSQL or MSDE database. Selecting Next will test the connection. For Trusted Connection type leave User and Password blank. For SQL 2005 users, please enter the machine name in the server area. Server: AMH014E Username:

 9. After the your databas Click Finish. A Dialog .NET 2.0. Ektron has p http://www.ektron.com CMS400 - InstallShiel You may likely need to migra Ektron to assist you in migra 	e is backed up and updated the Database Upgrade Complete screen appears. box appears to informing you that you might need to migrate your site to Microsoft bublished a knowledge base article on the web to help you upgrade. Here is the link /developers/cms400kb.cfm?id=2496. d Wizard ate your site to work properly with MS.NET 2.0. A knowledge base article is available from ating to .net 2.0 as well as rebuilding your project in Visual Studio 2005.
	ОК
10. Set up site for ASP.NET 2.0	 Open IIS. Browse to your Web site. Right click the mouse and select Properties. Click the ASP.NET tab. Make sure the ASP.NET version field value begins with 2.
	ASP.NET version:

Backing Up Databases

To protect information contained within the database, it is recommended that you back it up before performing a database upgrade. This section describes how to backup and restore Microsoft SQL and MSDE2000 databases. The steps to perform each are in the following sections:

- "Backing Up a Microsoft SQL Database" on page 39
- "Restoring a Microsoft SQL Database" on page 42
- "Backing Up an MSDE2000 Database" on page 46
- "Restore an MSDE2000 Database" on page 46

See Also: "Database Entry Implications When Restoring or Moving a Ektron CMS400.NET Database" on page 47

Backing Up a Microsoft SQL Database

The following is an example of the steps for creating a backup of a Microsoft SQL database.

- 1. Open Microsoft SQL Server Enterprise Manager.
- 2. Click on **Microsoft SQL Servers > SQL Server Group**.

🚡 SQL Server Enterprise Manager	
<u>File Action View Tools Window Help</u>	
	U () 😰 🖪
🚡 Console Root\Microsoft SQL Servers\SQL Ser	ver Group
Console Root	SQL Server Group 1 Item
Group	
	WS10017\C (Windows NT)
3. Click on the server where the database	is located.
4. Click on Databases.	
) (Windows NT
	(mildono mi
🕀 🚺 CMS400Example	
CMS400Example_3	
⊞∎ master	
E msdb	
tempdb	

5. Choose the database to back up.

6. Right click of	n Database and click P	ni Tasks > Backup	
Database.			
		U	
E WS10017\CMS400	MSDE2000 (Windows NT)	400Eva CMS400Eva CM	5400Ev
🖃 🧰 Databases			0.002
庄 📲 CMS400Ex	New Detabase	7	
	New Database		
	New		
🛨 🔋 📔 master	All Tasks	Import Data	
+ 📔 model		Eveest Data	
+ Minsdb	New Window from Here	Export Data	
+ i tempdb		Maintenance Plan	
+ Data Transfor	Delete	Generate SQL Script	
H Management	Refresh	<u>e</u> nerere ette entrem	
		Backup Database	
	Properties	Restore Database	22
	Help		· \\
🗄 🛄 Support Servi		Shrink Database	
🕂 🔲 Meta Data Ser	vices	Data de Database	

Right click on **Database** and click All Tasks > Rackun 6

7. Add a location to which to back up the file.

SQL Server Backup - CMS400Example
General Options
Database: CMS400Example Name: CMS400Example backup
Description: Backup (Database - complete
Database - differential Transaction log File and filemount
Destination Backup to: C Lape C Distance
C:\Program Files\Microsoft SQL Server\M Add Remove
Overwrite
Schedule Sched <u>u</u> le:
OK Cancel Help

8. Set any options.

SQL Server Backup - CMS400Example			
General	Options		
Options		-	
	ventying the backup will read the entire backup and check for media integrity. Checking the identity and expiration of the media prevents accidental overwrites.		
	Verify backup upon completion		
	📕 Eject tape after backup		
	$\boxed{\square}$ <u>R</u> emove inactive entries from transaction log		
	$\overline{\Box}$ Check media set name and backup set expiration		
	Media set <u>n</u> ame:		
	Backup set will expire:		
	C After: 1 days		
	C <u>O</u> n: 1/21/2005		
Media s	Initializing tape or disk media set erases the previous contents of the media and labels the media set with a name and description.	-	
	Initialize and label media		
	Media set na <u>m</u> e:		
Media set <u>d</u> escription			
	OK Cancel Help		

9. Click OK.

If the Backup is successful, this window appears.



Restoring a Microsoft SQL Database

The following is an example of the steps for restoring a backup copy of a Microsoft SQL Database.

See Also: "Database Entry Implications When Restoring or Moving a Ektron CMS400.NET Database" on page 47

- WARNING! Before restoring an SQL database, either stop the Ektron Windows service or force all connections closed. You need to do this because the Ektron Windows Service accesses the database. To view and update the status of the service, go to Computer Management > Services and Applications > Services. For more information, see the Ektron CMS400.NET Administrator Manual section "Ektron Windows Service."
 - 1. Open Microsoft SQL Server Enterprise Manager.

2. Click on **Microsoft SQL Servers > SQL Server Group**.

🚡 SQL Server Enterprise Manager		
<u>File Action View Tools Window Help</u>		
← → 🗈 🔳 🗙 💣 🔮 💀 😫 🔆 🔅		
🚡 Console Root\Microsoft SQL Servers\SQL Ser	ver Group	
Console Root	SQL Server Group 1 Item	
⊡ · ∰ Microsoft SQL Servers ⊡ · ∰ <mark>SQL Server Group</mark> ⊡ · ∰ WS10017\CMS400MSDE2000 (Windows NT)	WS10017\C	

3. Click the server to which you want to restore the database.



4. Right click **Databases > All Tasks > Restore Databases**.

- 5. In the **Restore as database** field, type the name you want the database to be restored as.
- 6. Choose the Database radio button.

estore database	
General Options	
Restore as database: CMS400Example	•
Restore: Image: Parameters Image: Description of the second	
Show backups of database: CMS400Example	•
First backup to restore: 1/21/2005 3:52:36 PM - CMS400Example backup	-
Point in time restore:	_
Restore Type Backup Set Date Size Restore From Backup Set Name	
I/21/2005 3:52 72 C:\CMS400 CMS400Example backu	р
	>
Properties	_
Libentes	
OK Cancel H	elp

7. In **Parameters**, choose a backup to restore.

Restore database		×
General Options		
Eject tapes (if any) after restoring each	backup	
Prompt before restoring each backup		
Eorce restore over existing database		
Restore database files as:		
Original File Name	Restore As	
C:\Program Files\Microsoft SQL Serve	C:\Program Files\Microsoft SQL Server\MSSQL	
C:\Program Files\Microsoft SQL Serve	C:\Program Files\Microsoft SQL Server\MSSQL	
Recovery completion state		1
Leave database operational. No ac	dditional transaction logs can be restored.	
C Leave database nonoperational bu	it able to restore additional transaction logs.	
C Leave database read-only and able	e to restore additional transaction logs.	
Undo file: C:\Program Files\M	/icrosoft SQL Server\MSSQL\$CMS400MSD	
	OK Cancel Help	

8. Set any options.

9. Click **OK**.

If the restore is successful, this window appears.



Backing Up an MSDE2000 Database

Below are examples of syntax to backup your database and create a log of your backup. You may need to modify them or add switches based on the configuration of your database. To find a list of switches and their definitions, type **osql** -? at the prompt.

NOTE Switches used by OSQL are case sensitive.

To backup an MSDE2000 database, follow these steps.

1. Open a command window.



2. Add the following line after the prompt.

osql -d cms400Min -E -n -Q "BACKUP DATABASE cms400Min TO DISK = 'c:\cms400Min.bak'"

- 3. Click <Enter>.
- 4. To make a log of the backup, add the following line after the prompt.

osql -d cms400Min -E -n -Q "BACKUP LOG cms400Min TO DISK = 'c:\cms400Min _log.bak'"

5. Click <Enter>.

Restore an MSDE2000 Database

Below is an example of syntax to restore your database. You may need to modify it or add switches based on your database configuration. To find a list of switches and their definitions, type **osql** -? at the prompt.

To restore an MSDE2000 database, follow these steps.

WARNING! Before restoring an SQL database, either stop the Ektron Windows service or force all connections closed. You need to do this because the Ektron Windows Service accesses the database. To view and update the status of the service, go to Computer Management > Services and Applications > Services. For more information, see the **Ektron CMS400.NET** Administrator Manual section "Ektron Windows Service."

1. Open a command window.



2. Add the following line after the prompt.

osql -d master -E -n -Q "RESTORE DATABASE cms400Min FROM DISK = `c:\cms400Min.bak'"

3. Click <Enter>.

Database Entry Implications When Restoring or Moving a Ektron CMS400.NET Database

Use Ektron's sitesetup.exe utility to create a new Ektron Web project. This utility lets you create a new Ektron Web site or perform a database upgrade.

Database Login Requirements

During the site setup process, you must log in to your database with system administrator (sa) rights. This login allows **Ektron CMS400.NET** to automatically add several rows to the system/ master database.

Adding Required Database Rows After Site Setup

If you did not log in as *sa* during installation or manually moved your Web site to another database, you can add the required system/master rows in one of two ways.

- "Using the Site Setup Utility to Add Required Rows After Database Setup" on page 48
- "Manually Adding System/Master Required Rows" on page 52

IMPORTANT! This procedure alters tables. However, no data is lost. You are prompted to back up your database prior to running the upgrade.

Using the Site Setup Utility to Add Required Rows After Database Setup

.

1.	Start the Site Setup uti	lity by following this path: Programs > Ektron CMS400 > Litilities > CMS400 Site Setup
	Start Meriu > Air i	rograms > Ektron CM3400 > Otimies > CM3400 Site Setup
2.	Select CMS400 Database Setup /	CMS400 - InstallShield Wizard
	Upgrade and click	
	NEXL.	Setup Type Select the setup type that best suits your needs.
		Thank you for installing CMS400. The following wizard will allow you to setup, upgrade reinstall a CMS400 site.
		CMS400 (Complete)
		CMS400 Database Setup / Upgrade
		O Upgrade / Reinstall
		InstallShield
		< <u>Back</u> <u>N</u> ext>

3. Selec CMS4 (SQL Next.	Select Upgrade	
	(SQL Only!) and Next.	CMS400 - InstallShield Wizard
		Setup Type Select the setup type that best suits your needs.
		Thank you for installing CMS400. The following wizard will allow you to setup, u reinstall a CMS400 site.
		⊙ Upgrade CMS400 Database (SQL Only!)
		InstallShield
4.	Click Next to back up y	our current database.
5.	You are advised to bac	k up your database.

6.	Browse to the folder where CMS400.NET is installed.		
		where CMS400 NET is CMS400 - Ins	CMS400 - InstallShield Wizard
		CMS400 Application Directory	
		Please select your CMS400 Application Directory. This is typically under your Program Files\Ektron directory.	
		Destination Folder C:\Program Files\Ektron\CMS400v61 Brows InstallShield < Back	

7. Se dir	Select your site		
	directory.	CMS400 - InstallShield Wizard	
		CMS400 Directory	
		Please select where your CMS400 site directory is located	
		Destination Folder C:\Inetpub\www.root\CMS400Demo InstallShield	W
		< <u>B</u> ack <u>N</u> ext >	

 You are prompted to enter your sa login username and password. 	You are prompted to	
	CMS400 - InstallShield Wizard	
	password.	SQL Server DB Setup
		Please enter the required information to connect to your MSSQL or MSDE data Next will test the connection. For Trusted Connection type leave User and Pas
		Server: (local)
		Username:
		Password:
		InstallShie <u>Kack Next ></u>
9.	Click Next to begin data	base upgrade.

Manually Adding System/Master Required Rows

You can manually update the system/master database with the rows required by **Ektron CMS400.NET** by executing the SQL script provided below against the system/master database.

/									
**********	********	* * * * * * * * * * * *	* * * * * * *	* * * * * * * *	*******	* * * * * * * *	* * * * * * * *	********	* * * * * * * *
***/									
sp_addmessage	2000000001,	10, N'Error	in %s:	Error %	d inserti	ng into	%S. %S'	, US_ENGL	ISH,
FALSE, REPLACE									
go									
/									

```
*****
                              ***/
sp_addmessage 2000000002, 10, N'Error in %s: Insert into %s returned %d rows. %s', US_ENGLISH,
FALSE, REPLACE
go
/
       ***/
sp_addmessage 2000000003, 10, N'Error in %s: Failed creating record because primary key already
exists. %s', US_ENGLISH, FALSE, REPLACE
go
/
                                    +++
***/
sp_addmessage 2000000004, 10, N'Error in %s: Error %d updating into %s. %s', US_ENGLISH, FALSE,
REPLACE
go
/
                                *****
***/
```

Updating Application Messages

WARNING!	If upgrading from version 5.0 or later, this section does not need to be completed.				
	Ektron CMS400.NET provides language support for French and German. If you are upgrading from a previous version and are using your old database, the translated strings are not included. Because of this, the installation includes a utility that lets you populate your old database with the translated strings.				

Prerequisites

Before using the language upgrade utility, you must upgrade your version of Ektron CMS400.NET. For information on this, see "Performing the Upgrade" on page 25. During the upgrade, if you opt to keep your previous database, proceed with this section.

Using the Language Update Utility

To use the language update utility, follow these steps.

1.	Go to Start > Programs > Ektron > CMS400 > Utilities > Application Strings Update.		
2.	The Language Update Utility opens.	Ektron CMS Language Update Utility Database Information Image:	

3. Select the DSN for the database from the drop down list.	Ektron CMS Language Update Utility
	Database Information CMS400 47 DSN: CMS400 47 User: Pass: Type: Type:
	Languages Options Image: English Image: Repopulate Image: French Image: Add New Strings Image: German Close
4. Enter a username and password with	permissions to the DSN if required.

5.	Select the type of database you are using. It will be updated with the language strings.	😴 Ektron CMS Language Update Utility
		Database Information CMS400 47 DSN: CMS400 47 User: Pass: Type: MS SQL Languages Options ✓ English ✓ French ✓ German Update Close

 6. Select the action you want to perform. Repopulate - deletes all strings and repopulates the database Add New Strings - adds only new strings in the current release of Ektron CMS400.NET. (Recommended if you changed existing strings) Patrice Patrice Patrice	on CMS Language Update Utility abase Information CMS400 47 SN: CMS400 47 SN: CMS400 47 ser: re: guages pe: Cptions English French German Update Close
--	---

7. Select the languages that you would like to be updated/added to the database.	Ektron CMS Language Update Utility Database Information CMS400 47 DSN: CMS400 47 User: Pass: Type: MS SQL Languages Options English French German Update Close
8. Click the Update button.	
 When the language update is complete, the following screen appears. 	LangUpdate X Update Completed Successfully!
10. Click OK to close the window.	-1
11. Click Close on the Languages Update	e Utility window.
Updating a Site Replication Production Machine after Upgrading from 5.2 to 6.0

Background Information

As part of Release 6.0, the dmdata and assets directories have been moved. As a result, the dmdata folder is not configured in IIS, and neither directory has the correct permissions. Follow the steps below to resolve these issues after you upgrade to 6.0.

Manual Update Steps

Follow this procedure after you upgrade from **Ektron CMS400.NET** version 5.2 to version 6.0.

- 1. Open Windows Explorer.
- 2. Within your Web site root folder, open the Assetmanagement folder.
- 3. Create a new directory named MyDmdata.
- 4. Right click on the mydmdata folder. Select **Properties** then **Security**.

AssetM	anagement		
	me * dmdata ektasset images mydmdata mydmdata Properties	Size	Type File Folder File Folder File Folder File Folder
	Administrator (DOCUMENTA	TION\Administrat ATION\Administra	or)
	Everyone BIS_WPG (DOCUMENTATIO BIS_WPG (DOCUMENTATIO BINTERACTIVE)N\IIS_WPG)	
	Everyone Everyone IIS_WPG (DOCUMENTATIO INTERACTIVE	DN\IIS_WPG)	▲ <u>R</u> emove

- 5. On the Security window, click the **Add** button to select the Ekt_Asset_User. If you are using WIndows2003 server, select **userEKT_Asset_User**.
- 6. Give that user Write permissions.

ydmdata Properties		? ×				
General Sharing Security Web Sharing Customize						
Group or user names:	Group or user names:					
METWORK SERVICE						
🛛 🕵 OWS_1241906493_admin (D	OCUMENTATIO	IN\OWS_12				
SYSTEM						
UserEKT_ASSET_USER D	DCUMENTATION	NUserEKT_				
	Jsers)					
	· · · · 1					
Permissions for	A <u>d</u> d	<u>H</u> emove				
UserEKT_ASSET_USER	Allow	Deny				
Full Control						
Modify						
Read & Execute						
List Folder Contents						
Write						
For special permissions or for adva click Advanced.	nced settings, 	Advanced				
ОК	Cancel					

Security Tab for Windows XP

mydmdata Properties		? 🔀				
General Sharing Security We	b Sharing Custo	omize				
Group or user names:						
ASP.NET Machine Account	(WS10080\ASF	'NET) 🔼				
Bolt, Bob (EKTRON1\bbolt)						
	ASSET LISEB@	intra ektron c				
Everyone	10021_002112					
	A <u>d</u> d	<u>R</u> emove				
Permissions for EKT_ASSET_USER	Allow	Deny				
Full Control						
Modify Dead & Evenue						
List Folder Contents						
Read						
Write						
Eoropooial Parmissions	anaad aattinga					
click Advanced.	anceu settings,	Advanced				
ОК	Cancel					

- 7. Click the **Advanced** button.
- 8. On the Advanced Security Settings screen, make sure the directory inherits permissions from other folders.

Ad	Advanced Security Settings for mydmdata					?	×
F	Permissions Auditing Owner Effective Permissions						
To view more information about Special permissions, select a permission entry, and then click Edit.							
	Туре	Name	Permission	Inherited From	Apply To	~	
	Allow EKT_ASSET_USER Read, Write & < not inherited> This folder, subfolder Allow Internet Guest Acco Special C:\Inetpub\ww This folder, subfolder Allow ASP.NET Machine Special C:\Inetpub\ww This folder, subfolder Allow ASP.NET Machine Special C:\Inetpub\ww This folder, subfolder Deny Launch IIS Process Special C:\Inetpub\ww This folder, subfolder Deny Internet Guest Acco Special C:\Inetpub\ww This folder, subfolder Deny Internet Guest Acco Special C:\Inetpub\ww This folder, subfolder Allow Everyone Read & Execute C:\Inetpub\ww This folder, subfolder Allow VS Developers (WS Special C:\Inetpub\ww This folder, subfolder Allow Administrators (WS1 Full Control C:\Inetpub\ww This folder, subfolder Allow SYSTEM Full Control C:\Inetpub\ww This folder, subfolder Allow Bolt. Bob (EKTRON Full Control C:\Inetpub\ww Thi						
[Inherit from parent the permission entries that apply to child objects. Include these with entries explicitly defined here.						
	OK Cancel Apply						

- 9. Click on Web Sharing tab.
- 10. Click Share this folder.
- 11. The Edit Alias dialog opens. Check **Read** and **Write** Access Permissions.
- 12. Set Application permissions to None.

mydmdata Properties	? 🗙
General Sharing Security Web Sharing Customize	
Internet Information Services	
Share on: Default Web Site	~
Do not share this folder Share this folder Aliases mydmdata Add	
Edit Alias	×
Directory: C:\Inetpub\wwwroot\CMS400Demo\AssetMar Alias: mydmdata	nageme
Access permissions	
Read Script source acces	s
Write Directory browsing	
Application permissions None Scripts Execute (includes scripts)	
ОК	Cancel

- 13. Save and close all open dialogs.
- 14. Open IIS.
- 15. Navigate to the MyDmdata directory.
- 16. Right click the directory and click properties.
- 17. Assign to the folder Read and Write.
- 18. Create the folder as an application.

Information Services (IIS) Ma	nager		_ 🗆 🗙
ion ⊻iew <u>W</u> indow <u>H</u> elp	mydmdata Properties		
) 📧 🗙 😭 🔂 🗔 😫	Directory Documents I	Directory Security HTTP Headers	Custom Errors ASP.NE
Information Services OC-GROUP (local computer) pplication Pools /eb Sites Default Web Site 	The content for this re	esource should come from: The designated directory A ghare located on another computer A redirection to a URL CM5400Demo\AssetManagement\my is V Log visits V Index this reso	r dr purce
	Application name: Starting point: Execute permissions: Application pool:	mydmdata <default site="" web="">\CMS Scripts only DefaultAppPool</default>	Configuration
	-	OK Cancel	Apply Help

- 19. Click the Directory Security tab.
- 20. Click to edit authentication and access control.
- 21. Disable Anonymous Access and set to Basic Authentication.

Authentication I	Methods					×
Enable ano	nymous ac	cess				
Use the followi	ng Window	vs user a	ccount fo	or anonym	ous access:	
User name:	User name: IUSR_EK-DOC-GROUP Browse					
Password:	•••••					
Authenticated	access					
For the followir are required w	ng authent hen:	ication m	ethods,	user name	and password	1
- anon - acces	ymous acc ss is restric	ess is dis ted using	abled, o NTFS a	r ccess cont	rol lists	
Integrated	Windows	authentic	ation			
Digest auth	entication	for Wind	lows don	nain server	s	
MET Pacer	Intication (passwor	d is sent	in clear te:	<t)< th=""><td></td></t)<>	
	orcaugner	lacation				
Default dom	ain:				Select	
<u>R</u> ealm:	Г				Select	1
	-			······································		-
	ОК	C	ancel	<u></u>	lelp	

- 22. Save and close all open dialogs.
- 23. Open Windows Explorer.
- 24. Navigate to the your web site/Assets Directory.
- 25. Right click it and click properties.
- 26. Click on the **Security** tab.
- 27. Give the ASP.Net and lusr full permissions.
- 28. Save and close all open dialogs.
- 29. Access the Ektron CMS400.NET Workarea.
- 30. Go to Settings > Configuration > Asset Server Setup.
- 31. Update the WebShareDir from dmdata to mydmdata.

Troubleshooting Upgrade Problems

Problem	Solution
After upgrade, Ektron CMS400.NET does not load properly. Also, an error icon appears next to your templates when you open the project in Visual Studio.NET, as illustrated below. The problem is that your .NET references need to be updated.	To verify the problem, open the Ektron CMS400.NET solution file in Visual Studio.NET (webroot\siteroot\cms400sitename.sln; for example, cms400Intranet.sln) and look at the template files. If your references are broken (as shown in the sample screen on the left), delete all Ektron references. Then, add new references with the same name from the webroot\siteroot\bin folder.
When viewing a page containing CMS400.NET Server controls or API calls, the page returns a fatal error Compiler failed with Error Code 2000 . Detailed compiler output may say Fatal error BC2000: compiler initialization failed unexpectedly: The filename, directory name, or volume label syntax is incorrect . This error message might appear after an upgrade.	See Ektron Knowledge Base article "ERRMSG: Compiler failed with Error Code 2000" (www.ektron.com/developers/ cms400kb.cfm?id=2029)

Problem	Solution
After upgrading from Ektron CMS400.NET version 4.8 or earlier, Metadata is no longer applied or required when adding or editing content.	In Ektron CMS400.NET version 4.8 or earlier, Metadata is applied globally. In later versions, metadata is applied to each folder individually. Child folders can inherit the metadata from a parent folder or they can have their own metadata settings.
	To set the metadata settings back to global, follow these steps.
	1. In the Workarea, click on the site's root folder.
	2. Next, click View > Folder Properties.
	 Click the Edit Properties button ().
	4. Click the Metadata tab.
	 Check the all of the appropriate check boxes for Assigned and Required Metadata.
	6. Click the Save button ().
	If you have not broken inheritance on any of the folders, your metadata settings are applied globally.
	For additional information on Metadata, see the Administrator Manual section "Managing Content" > "Managing HTML Content" > "Metadata" > "Working with Metadata Definitions" > "Assigning Metadata to a Folder"

Installing Ektron CMS400.NET

This section explains how to install **Ektron CMS400.NET** through the following topics.

- "Before You Install" on page 69
- "Performing the Installation" on page 72
- "Oracle Databases" on page 107
- "Document Management Client Install" on page 108
- "Document Management Client Install" on page 108
- "Document Management Client Install" on page 108
- "eWebEditPro+XML Client Install" on page 109
- "Results of Installation" on page 112
- "Changes to the CMS400 web.config File" on page 113
- "After Installation" on page 114
- "Setting Up an Additional Site" on page 114
- "Moving a Site to Another Directory or Server" on page 117
- "Moving a Site to Another Directory or Server" on page 117

Before You Install

Prior to installing Ektron CMS400.NET, complete these tasks.

- Create a folder for the site. Make sure the drive and folder to which you install your Ektron CMS400.NET Web site have sufficient space. Anticipate future needs, since the site is likely to grow over time.
- Make sure that Internet Information Server (IIS) is installed in your server. See "Appendix A: Creating a Web Site in IIS" on page 217

3. Make sure your server is using version 2 or higher of the Microsoft .NET Framework. To verify, open the C:\WINDOWS\Microsoft.NET\Framework folder and look at the numbered folders. You must have one that begins with 2.

If not, go to http://msdn2.microsoft.com/en-us/netframework/ aa731542.aspx. Then, download and install version 2 of the Microsoft .NET Framework.

 Enable the ASP.NET 2 Web Service Extensions. To do this, open IIS Manager, and click the Web Service Extensions folder. Then, click ASP.NET v2.0 and Allow (as shown below).

iternet Information Services (IIS) Man	ager	
ile <u>A</u> ction <u>V</u> iew <u>W</u> indow <u>H</u> elp		
→ 🖻 📧 🖻 🖻 😫 🖉 💷 💂		
Internet Information Services	📁 Web Service Extensions	
Application Pools Application Pools Web Sites Default Web Site Microsoft SharePoint Administrati Web Service Extensions	Allow Prohibit Properties Tasks	 Web Service Extension All Unknown CGI Extensions All Unknown ISAPI Extensions Active Server Pages ASP.NET v1.1.4322 ASP.NET v2.0.50727 FrontPage Server Extensions Internet Data Connector Server Side Includes

- 5. Install and configure your Web Application Server. For more information, see http://www.asp.net.
- 6. If you are setting up one Web site that uses multiple CMS servers and points to a single database server, make sure both servers connect to the same database. This configuration ensures that membership user registrations, forum/blog posts, statistics, etc., are the same on both servers. For more information, see "Moving a Site to Another Directory or Server" on page 117.

Installing the Minimum and Starter Sites

The installation scheme has changed for version 7.0.2. Previously, when you installed **Ektron CMS400.NET**, the installation created a site with sample content. (Sample content helps those unfamiliar with **Ektron CMS400.NET** to see an example of how its features can be implemented.) As of 7.0.2, however, the base installation file provides no sample content.

To supplement the base installation, Ektron provides several sample sites. You can install as many as you wish. Many customers install sample content that resembles their environment. For example, a legal practice might install the legal starter site. Sample sites are available from http://www.ektron.com/cms400-web-cms.aspx?id=4189.

NOTE To get the technical information for developers, which was previously available on the Developer's Sample page, install the developer starter site.

Installing a Starter Site

No Current Ektron CMS400.NET Installation

To install one or more sample sites, download them plus the base install file (CMS400Base.exe) from www.ektron.com to the same folder on your Web server. Then, click a starter site's .exe file, such as Legal.exe. When you do, the base install runs until it completes phase 1 of the installation steps listed in "Performing the Installation" on page 72. Next, it installs the selected starter site and database.

Once the base installation is complete, you can install any number of additional sample sites at any time by downloading and clicking them.

If you are familiar with **Ektron CMS400.NET**, you do not need to install a starter site. Simply use the base installation and proceed with site development.

Upgrading an Existing Installation

If you have an earlier version of **Ektron CMS400.NET**, first upgrade to release 7.0.2. Then, select one or more starter sites and install them.

Starter Applications

Ektron has also developed several *starter applications* that you can install to better learn **Ektron CMS400.NET**'s capabilities. Starter applications are built on the **Ektron CMS400.NET** engine and leverage **Ektron CMS400.NET**'s flexible API made available via its SDK. Starter applications are tailored to address the needs and requirements for specific business processes for organizations of any size, but are flexible enough to meet your custom requirements.

Starter applications are shipped open source and are free of charge. They work out of the box and, if needed, can easily be extended. Starter application are a perfect starting point for building your own web application. The only requirement is that a **Ektron CMS400.NET** base install exist on your server.

If you install the legal starter site, the Case Management Starter App is automatically installed. If you install any other starter site, the Project Management Starter App is automatically installed.

Starter Applications are available from http://www.ektron.com/ cms400-web-cms.aspx?id=4295.

Performing the Installation

NOTE

The installation program checks for an installation of MSSQL or Oracle on your server. If it is not installed, it will attempt to install SQL Express.

Installing **Ektron CMS400.NET** involves these actions. The installation program guides you through them.

Phase	Action	What it does	For details, see
1	Copy installation files to C:\Program Files	 ensures system requirements installs non-working copy of files needed to set up site 	"An introductory screen appears. Click Next to proceed." on page 74
2	Set up a site - (can be started any time after Phase 1)	 moves files based on selected Web folder creates IIS application directo- ries sets upload folder permissions updates web.config (path, ver- sion, and build number) 	"Setting up a Site" on page 78
3	Set up a database	 references database folder for scripts needed to create a database creates new tables and popu- lates them adds and sets user permis- sions updates the web.config file tests database connection 	"Setting up a Database" on page 87
4	Set up a user (MS SQL only)	• set up SQL user information	"Set Up a User for the CMS400 Database" on page 100

Running the Installation and Setup Program

Step	Setup Screen
1. Go to the Ektron Web site (http://www.ektron.com/download.cfm?product_id=342&purchase=0) and download Version 7.0 of Ektron CMS400.NET.	

St	ер	Setup Screen
2.	Double click the dow	nloaded CMS400Base.exe file.
3.	An introductory scree	en appears. Click Next to proceed.
4.	A screen displays Ektron's License Agreement. Please read the agreement. Click I Accept to accept the agree- ment. Click I do not accept. If you do not accept the agreement, this action ends the setup.	CM5400 - InstallShield Wizard License Agreement Please read the following license agreement carefully. EKTRON, INC. SOFTWARE LICENSE AGREEMENT ** READ THIS BEFORE LOADING SOFTWARE** YOUR RIGHT TO USE THE PRODUCT DELIVERED IS SUBJECT TO THE TERMS AND CONDITIONS SET OUT IN THIS LICENSE AGREEMENT. USING THIS PRODUCT SIGNIFIES YOUR AGREEMENT TO THESE TERMS. IF YOU DO NOT AGREE TO THIS SOFTWARE LICENSE AGREEMENT, DO NOT DOWNLOAD. CUSTOMER should carefully read the following terms and conditions before using the software program(s) contained herein (the ''Software''). Downloading and/or using the Software or copying the Software onto CUSTOMER'S computer hard drive indicates C I accept the terms of the license agreement @ I do not accept the terms of the license agreement Prin InstallShield < Back Next > Car

Ste	əp	Setup Screen
5.	Select Complete to install all components. Or, select Custom to choose which components to install.	CMS400 - InstallShield Wizard Select the setup type to install. Please select a setup type. © Complete Image: Complete
		< <u>B</u> ack <u>N</u> ext > C

St	ер	Setup Screen
6. The Ready to Install the Program screen appears. Click Install.	CM5400 - InstallShield Wizard Ready to Install the Program The wizard is ready to begin installation. Click Install to begin the installation.	
		If you want to review or change any of your installation settings, click Back. Click Cance the wizard.
		InstallShield <u>< B</u> ack <u>Install</u> C

Step	Setup Screen
 The installation program copies the necessary files to the C:\Program Files folder. 	CM5400 - InstallShield Wizard Setup Status
process, the installation grants the Everyone user group write permissions to the following system	CMS400 is configuring your new software installation.
folders:	C:\\{C3F45548-D6B3-4B52-8EF7-E6430181093E}\data1.cab
 \siteroot\Uploade dImages 	
 \siteroot\\Upload edFiles 	
• \siteroot\\Databa ses	
Important! - After completing the installation, you should further configure your permissions based on your network security model before using Ektron CMS400.NET.	InstallShield
8. If your system needs Microsoft Windows S	s to have Web Folders installed, that process begins. See "Web Folders Setup for Server 2003" on page 97

Step	Setup Screen
9. You might be prompted to restart your server. If so, Ektron recommends doing a restart now.	CMS400 - InstallShield Wizard InstallShield Wizard Complete A reboot of your system in now required to continue setup of CMS400. Image: Start Mark To restart my computer now. Image: No, I will restart my computer now. Image: No, I will restart my computer later. The CMS400 Site Setup utility will run after your system reboots. If this does not start automatically, please run it from your Start Menu from Ektron > CMS400 > Utilities > CMS400 Site Setup.
If you restart now, th If you restart later, yo > CMS400 Site Setu	e site setup procedure begins immediately upon completion of the restart. bu can launch the site setup from Start > Programs > Ektron > CMS400 > Utilities up.
Setting up	a Site

Step	Setup Screen
 10. This screen appears. It lets you set up a Web site. To set up a site, the installation copies the following folders from C:\Program Files\Ektron\CM S400v7x to the Web root folder you specify: BIN workarea documentation 	CMS400 - InstallShield Wizard CMS400 Setup Wizard Thank you for installing CMS400. The following wizard will allow you to setup, upgrade, or reinstall a CMS400 site.
 uploaded files and uploaded images a login page the VS 2005 solution file 	<u> < B</u> ack <u>Next></u> Cancel

Step	Setup Screen
11. The Setup Type screen appears. Choose an option to upgrade.	CM5400 - InstallShield Wizard Setup Type
 CMS400 - For installing a new CMS400.NET installation. 	Select the setup type that best suits your needs. Please select which setup type you would like to use from the following:
• CMS400 data- base Setup/ Upgrade - For setting up a new database or upgrade an exist- ing one.	 CMS400 (Complete) CMS400 Database Setup / Upgrade Upgrade / Reinstall
 Upgrade/rein- stall - For upgrad- ing or reinstalling CMS400.NET. 	
	InstallShield < <u>B</u> ack <u>N</u> ext > Cancel

Step	Setup Screen
12. In the Key 1 field, enter the primary/ development license key for Ektron CMS400.NET .	CM5400 - InstallShield Wizard License Keys Please enter your license keys Key 1 is for CMS400. Key 2 is for WeblmadeFY. If you do n
enter the license key for WebImageFX if you have one. License keys are typically emailed	Hease enter your license keys: Key 1 is for CM3400. Key 2 is for webmager X. If you do n'have your license key, it may be added when you begin using the product. Key example: yourdomain.com(cms44)(xml)?23490832492332-4 Key 1:
organization when you request a copy of the application. When cutting and pasting a license key keen the full	Key 2:
license key intact without adding or deleting characters.	InstallShieldCancel
If you do not have license keys now, you can insert them later. See "Configuring Ektron CMS400.NET " in the Administrator manual for details.	

Step	Setup Screen
Step 13. If this is not the first time you installed the base installation and other starter sites are available to be setup, a dropdown list shows all possible sites. Select the one you want to install.	Setup Screen Please select demo site: Ektron CMS400 Site Setup Select a demo site to install CMS400Min CMS400Min CMS400 Minsite. This site contains the minimum components needed to run a site. InstallShield
	<u>Back</u> <u>N</u> ext

Step	Setup Screen
14. If your server operating system accommodates multiple Web sites (for example, Windows Server	Please select which site and host you would like to use Ektron CMS400 Site Setup
site to which you want to install	Please select the site and host you would like to install to.
CMS400.NET from the dropdown list.	Select Site: Mike Watson & Associates
Otherwise, accept the default.	Select Host: 192.168.0.202
	Enter Host Manually
	Enter Host:
	InstallShield Back Next C

Step	Setup Screen
 15. Enter the destination folder for the site. If your Web site resides in a folder other than the default, click Browse and navigate to the correct folder. 	CM5400 - InstallShield Wizard Site Path Directory Setup will install the site files into the following folder. To install to this folder, click Next. To install to a different folder, click Browse and select
Do not leave CMS400Min as a subfolder of your root folder. Either rename CMS400min to reflect your site or use naming conventions to identify your site. For example,	Destination Folder C:\\Mike Watson & Associates\CMS400Min
c:\inetpub\wwwr oot\mysite.	InstallShield

Step	Setup Screen
 16. On the Host screen, specify the host name (which defines the URL) that will be used to access your Web site. The host name also configures variables during the installation. It can be any of the following: 	CMS400 - InstallShield Wizard Host
	What is the server host name (including subfolder) you will be using to access this site? If you are unsure, please use the default. http://192.168.0.202/
 An IP address (123.456.7.890) 	
 A server name (WebServer1234) 	
 A domain name (www.exam- ple.com) 	
	InstallShield <u>Kext > C</u>
Note: A subfolder only ap Windows XP Professiona	InstallShield < Back Next > oppears after the host name if you are installing under Windows 2000 Professional, al, or Vista. These environments are typically used for development on your PC,

Step	Setup Screen
17. Enter the path of the Secure Asset Location. Note: Be sure the drive to which you install the asset library has sufficient storage space plus room for growth.	CMS400 - InstallShield Wizard Secure Asset Storage Location Please specify a secure asset storage location below. This location should not be web accessible. If the Indexing Service will be installed for this application, please select a local drive for faster indexing. Destination Folder c:\assetlibrary\ InstallShield <
18. Next, the following things happen.	
 permissions are set 	for the upload directories
 an IIS user is created 	d
• the indexing service	is setup
• the site is set up to u	se .NET 2.0
• user are assigned pe	ermissions
• web.config settings a	are configured

Ste	p	Setup Screen
Se	Setting up a Database	
Imp "Ora	portant : For information acle Databases" on p	on on setting up an Oracle database for Ektron CMS400.NET, see age 107
You with	r database contains i the following databa	nformation such as users and content blocks. Ektron CMS400.NET is compatible ses:
•	Microsoft SQL Serve	er 2005 (including Express version)
•	Microsoft SQL Serve	er 2000
•	Microsoft SQL Server Desktop Engine (MSDE) 2000	
•	• Oracle 10G	
•	Oracle 9i	
19.	You are asked if you want to set up a database. Click Yes .	Question Would you like to run the database setup at this time? Note: You must be able to connect to Microsoft SQL Server, SQLExpress 2005 or an Oracle Database to run this setup. Yes
lf yo	ou will use a separate	database server, you need the following information
•	database server host name or IP address	
•	 if the database server is on the same domain as the application server, it must support NT or SQL authentication 	
•	• if the database server is on a separate domain from the application server, it must support SQL authenti- cation	
•	 you must have database administrator or database creator privileges 	

Step	Setup Screen
20. The database setup program	CMS400 - InstallShield Wizard
 checks for MSDE or SQL server. If SQL is installed on your server, a SQL database is 	CMS400 Database Setup
set up. If MSDE is installed, an MSDE database is set up. If neither is detected, MSDE is installed then an MSDE database is set up.	This setup wizard will allow you to setup a Microsoft Server, SQLExpress 2005, or an Oracle database fo CMS400.
 loads database tables 	
 updates the web.config file with information about your data- 	
base connection, based on your responses	< Back Next >

Step	Setup Screen
21. Decide if you want to set up a SQL or Oracle database.	CMS400 - InstallShield Wizard Setup Type Select the setup type that best suits your needs. Please select which database server you will be using. Image: Microsoft SQL Server Image: Oracle InstallShield
22. Enter the name of the database you are creating. If you are installing a starter site, accept the default. If you are setting up your own site, assign a different name.	CMS400 - InstallShield Wizard Database Name Enter the database name you would like setup to create. CMS400Min
	InstallShield

Step	Setup Screen		
IMPORTANT! Ektron stro	IMPORTANT! Ektron strongly urges you to change the user name and password for the builtin user.		
23. Change the builtin us Workarea, see "Editi	ser's name and password. For instructions on editing the builtin account in the ng Builtin" on page ii		
InstallShield Wiz	card X		
Update Builtin Ac	count		
Please update yo	our Builtin Username. This can also be done in the CMS Workarea -> Settings.		
UserNan	ne: builtin		
Passwor			
Confirm Passwor	d: NINN		
InstallShield	< Back Next > Cancel		
Trotalio Trotal			

itep	Setup Screen
 4. This screen prompts for database connection information. Server - (local)\CMS400M SDE2000 is the default value for the MSDE server installed with Ektron CMS400.NET. To install this, accept the default. Otherwise, enter a SQL or MSDE server that already exists. For SQL, this would typically be (local). 	CM5400 - InstallShield Wizard SQL Server DB Setup Please enter the required information to connect to your MSSQL or MSDE database. S Next will test the connection. For Trusted Connection type leave User and Password b SQL 2005 users, please enter the machine name in the server area. Server: AMH014E Username:
	InstallShie
Username - Enter th database delivered w Password - Enter the database delivered w Note: If you want to u trusted connection.	e username you will use to access the database. If you are installing the MSDE with Ektron CMS400.NET, the username is sa. e password you will use to access the database. If you are installing the MSDE with Ektron CMS400.NET, the password is ektron.

If the database name was used previously, you are informed and asked to assign a different name.

Step	Setup Screen
If you see the following error message, change the Destination Folder to $program files \ektron \mbox{cms400v7}x \sites \extron \database.$	
CM5400 Site Setup - Ins	tallShield Wizard
Setup Error: You are missing the file c:\inetpub\wwwroot\CMS400Example\web.config, which is needed to run this setup.	
	ОК
25. If your server has Visual Studio.NET installed, the following prompt appears.	Question Image: Comparison of the comp
 If you want to install Ektron CMS400.NET's Software Developer's Kit (SDK), click Yes. Otherwise, click No. 	
If you click No , skip to "Click Finish." on page 97. To learn about the SDK, see the CMS400.NET Developer Manual section "Ektron's Developer SDK."	

Step	Setup Screen
27. Choose the type of Setup for the CMS400.NET SDK. Click Next .	CMS400.NET SDK - InstallShield Wizard Setup Type Select the setup type to install.
	Please select a setup type. Complete Image: Com
	InstallShield

Step	Setup Screen
28. Click Install to begin the installation.	CMS400.NET SDK - InstallShield Wizard
	Ready to Install the Program The wizard is ready to begin installation.
	Click Install to begin the installation.
	If you want to review or change any of your installation settings, click Back. Click Cant the wizard.
	InstallShield
Step	Setup Screen
--------------------------------------	---
29. The Setup Status screen appears.	CMS400.NET SDK - InstallShield Wizard
	Setup Status
	The InstallShield Wizard is installing CMS400.NET SDK
	InstallShield

Step	Setup Screen
30. When the SDK install is finished, the following screen appears. Click Finish .	CMS400.NET SDK - InstallShield Wizard InstallShield Wizard Complete The InstallShield Wizard has successfully installed CMS400.NET SDK. Click Finish to exit the wizard.
	< <u>B</u> ack Finish

Step	Setup Screen
31. Click Finish . The site and database setup portion of the install is complete.	CMS400 - InstallShield Wizard CMS400 Installation Complete Setup has finished installing CMS400 on your compute
	< <u>B</u> ack (Finish)

Using Microsoft Windows Server 2003 as a Client (Web Folders Setup)

Symptom	Resolution
You receive the following error message: Windows Server 2003 no longer ships MSDAIPP.DLL, thus connecting to an FPSE server through Webfolders, is no longer possible.	 Per MS Licensing, you can obtain webfldrs.msi from any down-level OS, or any Office product that shipped before Windows2003 (not Office 2003) and install the WebFolders client. Doing so will keep you compliant with licensing. You can only install WebFolders from Office 2003 if you have an Office 2003 license for each Windows2003 server on which you plan to install WebFolders.

Web Folders Setup for Microsoft Windows Server 2003

The MSDAIPP.DLL is no longer shipped with Microsoft Windows Server 2003, making communication with Web folders impossible. To correct this, **Ektron CMS400.NET** setup runs the Web folder setup when it detects Microsoft Windows Server 2003.

The following steps explains installing Web Folders.

Step		Setup Screen
1. The Web Fold screen appear Next .	ers install s. Click	WebFldrs Welcome Dialog Welcome to WebFldrs.
 The Web Fold Identity dialog appears. Add your Nam Organization. Next. 	ers box e and Click	WebFldrs Identity Dialog Image: Company State Name: Toby Tyler Organization: Cruisers Inc. Cancel << Previous
3. The Web Fold Product ID dia displays your p number. Click	ers log box product ID Next .	WebFldrs Product ID Dialog This is your product ID number: 12345-111-1111111-90151 Cancel << Previous

Ste	ep.	Setup Screen
4.	The Web Folders Selection Choice dialog box appears.	🖓 WebFldrs Selection Choice Dialog
•	Complete - installs all components.	C Complete C Custom
•	Custom - you choose the components to install.	• Typical This selection will install the most frequently used compone
•	Typical - installs the most frequently used components. After making a selection, click Next .	<u>Cancel</u> << <u>Previous</u> <u>Next >></u>
5.	The Verify Ready All dialog box appears. Click Next	WebFldrs Verify Ready All Dialog
		<u>C</u> ancel <u>N</u> ext >>
6.	The Action dialog box appears. The Setup is installing Web folders.	Action! Writing system registry value Key: HKEY_LOCAL_MACHINE\COAOF-43: WECAPI2.FpM Cancel

Ste	әр	Setup Screen	
7.	The We Are Done dialog box appears. Click OK .	We Are Done!	

Set Up a User for the CMS400 Database

The installation automatically sets up user information based on data collected during setup. However, if there is a problem creating the user, this section describes how to set up a user manually.

Step	Setup Screen
 In the SQL Enterprise manager, select Security > Logins. 	Console Root Console Root Microsoft SQL Servers msde SQL Server Group Coloal) (Windows NT) Catabases CMS200Sample CMS300_v45_MSSQI CMS400Min CMS40Min CMS40Mi

Ste	ep	Setup Screen				
2.	Right click the mouse and select New Login .	🖁 TETZEL\ASPNET		Windows User Standard	Permit Permit	CI mi
3.	On the Login Properties dialog, click the button to the right of the	፼cms ፼BUILTIN\Adminis	trators SQL Serve	Standard Windows Group r Login Properti	Permit Permit es - New Login	Ct m:
4. 5.	Select your server. Form the user list.,		General :	Server Roles Datab Name:	base Access	
6.	Click Add then OK .		Authentic	SQL Server Log List Names From: Names:	in Properties -	New Login
			Defaults	Guest HelpAssistan Image install (Todd I Image Image Image Image Image Image Image Image Image Image Image Image Image Image Image I	t (Remote Desktop nstall) EL (Internet Guest / EL (Launch IIS Pro er (SQLDebugger) 388945a0 (CN=Mici	Built-in account fo HAccount for Provi A Built-in account fo Built-in account fo This user account ro This is a vendor's test

Step	Setup Screen
 Step 7. On the Database Access tab, click the cms400Min database. Then, assign permission to read and write to that database (as illustrated.) 	Setup Screen
	<u>Properties</u> OK Cancel Help

Step	Setup Screen	
8. Run the Grant Permission Script.		
Note: Before doing this, re Also, if you use Windows wants it this way), you ma	eview your users and their permissions. Adjust as necessary for your configuration. Authentication and all users are domain users (and the database administrator ay not have to perform this step.	
Follow these steps to do t	hat.	
Open the SQL Query	v Analyzer.	
• From the dropdown I	ist, select the CMS400.NET database.	
🖲 SQL Query Analyze	г	
<u>F</u> ile <u>E</u> dit <u>Q</u> uery <u>T</u> ools	Window Help	
1	. 🗈 🖻 🏄 🗠 📼 - 🗸 🕨 🗉 🚺 CMS400Exampl 🔽 🛃 😭 🕻	
🕮 Query - WS10080	.CMS400Example.EKTRON1\bbolt - C:\Prc g CMS400Example	
grant all on o grant all on o grant all on o	cms_FindFolderRecursive to [MACHI] CMS400Example_122 HE\US cms_FindTemplateOrigin to [MACHIN] master E\USE cms_LoadFolderList to [MACHINENAM] model ERNAM	
• Click File > Open.		
 Open C:\Program Files\Ektron\CMS4 resents the release n 	00v <i>nn</i> \Utilities\SiteSetup\Database\grantpermissionsscript.sql.(<i>nn</i> rep- uumber)	
 Within that file, replace (\), and ASPNET (the 	CE [MACHINENAME or DOMAINNAME\USERNAME] with your domain name, backslash ASP.NET machine account). For example, [ws10080\ASPNET].	
Click the Execute Qu	ery button ().	
• Replace the text between square brackets with with your domain name, backslash (\), and the IIS Inter- net Guest Account. For example, [ws10080\IUSR_ws10080]. Click the Execute Query button.		
 If using SQL server a backslash (\), and the 	authentication, replace the text between square brackets with your domain name, e SQL server authentication name. Click the Execute Query button.	
• If using SQL server authentication, replace the text between square brackets with the SQL server authen- tication name only. Do not include the domain name. Click the Execute Query button.		

Possible Error Messages During Installation

Error



Possible Causes and Solutions

Possible cause	Suggested solution
User does not have permission to create objects	Grant user permission to create objects. For information on how to, read IIS Security help topic "Setting NTFS Permissions for a Directory or File." http://localhost/iishelp/iis/htm/core/iidfpsc.htm
IIS is not running	Restart IIS. For information on how to, read IIS help topic "Starting and Stopping Sites." http://localhost/iishelp/iis/htm/core/iiststp.htm
Host is not localhost	Install Ektron CMS400.NET on localhost machine only.

Error

Server Error in '/CMS400Example' Application.

Parser Error

Description: An error occurred during the parsing of a resource required to service this request. Please review the foll

Parser Error Message: The format of the file 'Ektron.Cms.Controls' is invalid.

Source Error:

```
Line 1: cmail: cma
```

Source File: c:\inetpub\www.vroot\cms400example\intranetbasic\index.aspx Line: 1

Assembly Load Trace: The following information can be helpful to determine why the assembly 'Ektron.Cms.Controls

```
=== Pre-bind state information ===
LOG: DisplayName = Ektron.Cms.Controls
  (Partial)
LOG: Appbase = file:///c:/inetpub/wwwroot/CMS400Example
LOG: Initial PrivatePath = bin
Calling assembly : (Unknown).
===
LOG: Policy not being applied to reference at this time (private, custom, partial, or
LOG: Post-policy reference: Ektron.Cms.Controls
LOG: Attempting download of new URL file:///c:/winnt/microsoft.net/framework/v1.1.43:
LOG: Attempting download of new URL file:///c:/winnt/microsoft.net/framework/v1.1.43:
LOG: Attempting download of new URL file:///c:/winnt/microsoft.net/framework/v1.1.43:
```

Version Information: Microsoft .NET Framework Version:1.1.4322.2032; ASP.NET Version:1.1.4322.2032

Cause	Solution
You installed Ektron CMS400.NET for .NET 2.0 but have the 1.1 .NET framework.	Install the .NET 2.0 framework. Or, install the version of Ektron CMS400.NET for the 1.1 .NET framework.

Oracle Databases

This section provides information on setting up an Oracle database for Ektron CMS400.NET.

The Ektron CMS400.NET setup.exe installs an SQL database by default. if you are using an Oracle database, you can select **No** to installing the SQL database when prompted. Or, you can let the install add the SQL database for comparison testing.

After the Ektron CMS400.NET Setup has finished, make sure Oracle is installed and working.

Setting Up an Oracle Database

NOTE The folder path running from the same folder path in the batch file may not work. If this is the case, move all scripts to a directory such as c:\database. Then, run everything from there including the batch file.

1. Navigate to:

 $\verb|C:\Program Files\Ektron\CMS400v7x\Utilities\SiteSetup\Database\Oracle.|$

- Create a new Oracle database or use an existing non-CMS database.
- 3. Run cms400_oracle_user.sql against your database.
- 4. Open the batch file OracleInstaller.bat and set the following settings:
 - folder="C:\Program
 Files\Ektron\CMS400v7x\Utilities\SiteSetup\Database\Oracle"
 - set instance=orcl
 - set username=system

- set password=welcome
- 5. Save and close the file.
- 6. Run OracleInstaller.bat.
- Edit the web.config for your site. Comment out the SQL connection string. Then, enable and set the one for Oracle as shown below:

<connectionStrings>

<!--FOR SQLSERVER-->
<!--add name="Ektron.DbConnection"
providerName="System.Data.SqlClient"
connectionString="server=(local);database=CMS400Demo;Integrated
Security=true;user=sa;pwd=;" /-->

<!--FOR ORACLE-->

<add name="Ektron.DbConnection"
providerName="System.Data.OracleClient" connectionString="Data
Source=orcl;User Id=system;Password=welcome;"/ >

</connectionStrings>

8. Save and close the file.

Your Oracle database is set up.

Document Management Client Install

When any client-side user tries to create or edit content, **Ektron CMS400.NET** checks to see if the Document Management feature is installed on his PC. If not, a window appears asking the user if he wants to install it.

Ektron DMS400 Automatic Download and Installation

The page you are trying to view contains Ektron DMS400. It will appear within your browser. It allows you to manage asset on web pages as easily as using that application.

Before you can use Ektron DMS400, it must be downloaded into your browser. When you click the **Install Now** button at the bottom of this page, Ektron DMS400 will be automatically downloaded and installed. This process may take several minutes depending on the speed of your network connection. Once downloaded, Ektron DMS400 will not need to download again unless upgrading to a newer version.

You must have authorization to install programs on your computer.

Pictures similar to the one shown below may appear. If they do appear, please click Yes to proceed.



Next, the installation occurs. When the installation completes, the user is instructed to close the window.

eWebEditPro+XML Client Install

There are two options for deploying **Ektron CMS400.NET**'s editor, eWebEditPro+XML, to client machines.

• Silently deploy the ewebeditproclient.msi file, which is installed to C:\Program

 $\label{eq:Files} \\ \ensuremath{\texttt{Ektron}\CMS400v7x\workarea\ewebeditpro\clientinstall.} To do this, use this command-line:$

msiexec /i "c:\Program

 $\label{eq:stron_CMS400v7x} workarea \verb+ webeditpro\clientinstall \verb+ webeditproclient.msi" /qn$

The command line parameters are explained on this Web page: http://helpnet.installshield.com/robo/projects/HelpLibDevStudio9/ IHelpCmdLineMSI.htm.

 Each time a user connects to Ektron CMS400.NET, his PC is checked for eWebEditPro+XML. If an older version or no version exists, the user is prompted to download ewebeditproclient.exe from the server's c:\Program Files\Ektron\CMS400v7x\workarea\ewebeditpro\clientinstall folder.

eWebEditPro with WebImageFX Automatic Download and Installation

The page you are trying to view contains Ektron's eWebEditPro with WebImageFX editor. It will appear within your browser. It allows you to enter content for web pages as easily as using a word processor.

Before you can use eWebEditPro with WebImageFX, it must be downloaded into your browser. When you click the **Install Now** button at the bottom of this page, eWebEditPro with WebImageFX will be automatically downloaded and installed. This process may take several minutes depending on the speed of your network connection. Once downloaded, eWebEditPro with WebImageFX will not need to download again unless upgrading to a newer version.

You must have authorization to install programs on your computer.

By default, Internet Explorer prevents ActiveX control installation on your computer. To install eWebEditPro, click on the control or the Information Bar and select Install ActiveX Control.



The user clicks Install Now to install eWebEditPro+XML.

To use this procedure, the user must be authorized to install programs on his computer.

Results of Installation

File Locations

By default, the installation inserts files into two locations on the server:

- C:\Program Files\Ektron\CMS400vXX: sample and minimal databases, documentation, utilities, site setup files (for creating additional sites)
- C:\Inetpub\wwwroot\cms400Min: bin folder, Web Services, scripts, supporting files, uploaded files and images, graphics used in the application, CustomAPI (used to customize Ektron CMS400.NET), etc.
- **NOTE** The bin folder stores Ektron CMS400.NET's binary executable files. The .NET environment automatically searches this folder when looking for dll files.

File Permissions

During installation, the everyone group is given permission to create folders in the following directories:

- C:\Inetpub\wwwroot\CMS400Min\uploadedfiles
- C:\Inetpub\wwwroot\CMS400Min\uploadedimages

Ektron recommends setting up .NET user accounts to authorize users to add, edit, and delete folders in the installation folder,

C:\Inetpub\wwwroot\CMS400Min\.

IIS Indexing Service

The installation automatically starts the IIS Indexing service. **Ektron CMS400.NET**'s search use this service.

If you want the IIS Indexing service to work manually, you need to change the settings. These steps explain how to disable IIS's Indexing of the site.

- 1. Navigate to Administrator Tools > Internet Information Services.
- 2. In the IIS window, find the Web site.

- 3. Right click the site and choose properties.
- 4. On the Directories tab, uncheck the **Index this resource** box.
- 5. Click OK.

Changes to the CMS400 web.config File

See Also: "Managing the web.config File" on page 126

After you install **Ektron CMS400.NET**, the web.config file is updated as follows.

web.config setting	Assigned this value by installation
ek_sitePath	webroot/siteroot
ek_buildNumber	current build number of Ektron CMS400.NET
ek_version	current version of Ektron CMS400.NET

After you run the database setup utility, the web.config file is updated as follows.

Line	Description	Value (if default accepted)
ek_dbCatalog	the database name you assigned	
ek_dbServer	the database server name (MSSQL or MSDE)	(local)\CMS400MSDE2000
ek_dbConnectionType	database connection type (MSDE or SQL)	sql
ek_dbUsername	user from CMS400 database (only used for SQL)	sa
ek_dbPassword	password from CMS400 database (only used for SQL	Ektron

Line	Description	Value (if default accepted)
ek_dbTrustedConnection	false - (default) sets authentication to SQL Server. Username and password are required.	false
	true - sets authentication to Windows . Windows handles security when connecting to database.	
ek_sitePath	path from the root of web server	

After Installation

Ektron strongly recommends configuring a secure socket layer (SSL), especially if you are using Active Directory Integration. SSL encrypts passwords that are otherwise sent as clear text to the Ektron CMS400.NET server. See "Configuring SSL" on page 161 for more information.

Setting Up an Additional Site

After installing **Ektron CMS400.NET**, it is easy to create another site. While creating the new site, you can create a sample or minimal site and database. To create a site for your content, you would typically install a minimal site and database, then create your Web page templates. Later, you can add users and content.

To set up an additional site, follow these steps.

- "Step 1: Set up New Site" on page 115
- "Step 2: Set up New Database" on page 115
- "Step 3: Create Project in Visual Studio.NET" on page 116

Step 1: Set up New Site

- 1. Create a new folder in the Web root folder to contain the site files.
- 2. From the Windows Start menu, follow this path:

Start > Programs > Ektron > CMS400 > Utilities > SiteSetup

3. Follow the steps for creating a new site, as described in "Setting up a Site" on page 78. When prompted to select a folder to which you want to install the files, choose the folder you created in Step 1.

Step 2: Set up New Database

After installing an **Ektron CMS400.NET** site, it is easy to create a new, starter database. You can create either a sample or minimal database. When creating a database for your content, you typically install a minimal database.

To set up a database, follow these steps.

1. From the Windows Start menu, follow this path:

Start > Programs > Ektron > CMS400 > Utilities > SiteSetup

2. On the Setup Type screen, choose Database Setup only.

CMS400 Site Setup - InstallShield Wizard	×
Setup Type Select the setup type that best suits your needs.	
Thank you for installing CMS400. The following wizard will allow you to setup, upgrade, or reinstall a CMS400 site.	
CMS400 Database Setup O Upgrade / Reinstall	
InstallShield	

3. Follow the steps for creating a new database, as described in "Setting up a Database" on page 87. Be sure to assign the database a name other than the default. Also, when asked to enter a SQL or MSDE server, enter the server name or IP address.

WARNING! Do *not* use the instance name (CMS400MSDE2000) -- it will cause an error.

Step 3: Create Project in Visual Studio.NET

To work with the new site in Visual Studio.NET, you must create a new project for it. To do that, follow these steps.

- 1. Navigate to the folder that contains the new site.
- 2. Double click Ektron CMS400.NET's solution file. If you are using the minimal database, the file is CMS400Min.sln.

At this point, you can build the project and log in. If you cannot log in because you have not set up the license key, use the builtin account: the username is builtin and password is builtin.

To learn about creating templates and using server controls, see the **Ektron CMS400.NET** Developer's Manual section "Ektron CMS400.NET Server Controls."

Moving a Site to Another Directory or Server

Use this procedure to move an **Ektron CMS400.NET** Web site to a new folder or even a different server. For example, you complete work on a site that resides on a development server and want to move it to a production server.

Within this documentation, the original site's folder is referred to as the *source* directory, and the new site's folder is called the *destination* directory. The directories can reside on the same server or different ones.

Moving the site consists of the following major steps. Each step is described below.

- "Step1: Set up an IIS Site on the Destination Server" on page 118
- "Step 2: Copy Files to Destination Directory" on page 119
- "Step 3: Set Security on New Folders" on page 119
- "Step 4: Make the New Directory an IIS Application" on page 120
- "Step 5: Back up the Database" on page 121
- "Step 6: Create a New Database" on page 122
- "Step 7: Restore the Database" on page 123
- "Step 8: Set Security on the Copied Database" on page 125
- "Step 9: Update web.config on the Destination Site" on page 125

WARNING! You should only use the builtin account temporarily. As soon as possible, you should insert the license key and log in under a user name assigned in Ektron CMS400.NET.

Moving a Site vs. Using the Site Replication Feature

In addition to the Site Move procedure described below, **Ektron CMS400.NET** offers a Site Replication feature. That feature automatically pushes new and updated site files to a production server. Site Replication is especially useful when your site contains sensitive information (for example, pricing) that needs to be carefully reviewed for quality assurance before it goes live. For more information, see the **Ektron CMS400.NET** Administrator manual section "Site Replication."

When You Would Use the Site Replication feature

You'd use the Replication feature in these cases.

- Moving a site from staging to production
- Distributing a site among load-balanced servers

When You Would Use the Move Site Procedure

You'd use the Move Site procedure in these cases.

- Moving a site from staging to production if you do not have the Replication feature
- Distributing a site among load-balanced servers if you do not have the Replication feature
- The initial move of a site up to a shared server (or any other server on which you cannot run the .exe installer).
 Subsequently, you could use Site Replication if you have it.
- Moving a site to a new server. For example, you purchase a new server to replace your existing one.
- Moving a site between two servers that are not connected by a network.

Step1: Set up an IIS Site on the Destination Server

Νοτε

This procedure assumes your Web server runs Windows 2003 server.

- On the destination server, go to Start > Control Panel > Performance and Maintenance > Administrative Tools > Internet Information Services.
- 2. Click the plus sign (+) next to the computer's name so that you can see the Web Sites folder.
- 3. Right click the Web Sites folder and select **New Web Site**.
- 4. The Web Site Creation wizard walks you through the steps of creating a new Web site.
- 5. At the TCP Port field, make sure the IP address/host header/ port combination does not conflict with an existing Web site. For example, if the destination server already publishes a Web site on IP address 172.23.23.231 with host header dev.example.com on port 80, your new site could use the same settings on port 81. The new site is accessible through http:// dev.example.com:81/.
- 6. When prompted for the path to the new site, create a new folder for the site in the destination server's file system.
- 7. When prompted to assign permissions to the new folder, assign **read**, **write** and **run scripts** permissions.

Step 2: Copy Files to Destination Directory

- 1. In the Web root of the destination directory, create a folder with the same name as the folder in the source directory.
- NOTEYou do this in order to set the destination site on the same URL path as the
source site on the source server. For example, if you the source site's login page
is http://localhost/MySite/login.aspx and you're moving it to
dev.example.com port 81, place the destination site at http://
dev.example.com:81/MySite/login.aspx.It is important for both sites to use the same URL path because **Ektron**
CMS400.NET uses *root relative* pathing in links to pages and images. This
means that any managed content item can be displayed on any page in the Web
site. Since the path may be embedded in hyperlinks and image paths, changing
the URL path on the destination server may cause problems.
 - 2. Copy all files in the source directory to the destination directory.

Step 3: Set Security on New Folders

This procedure lets **Ektron CMS400.NET** users upload files to the library.

- 1. Within IIS manager, navigate to the folder created in "Step 2: Copy Files to Destination Directory" on page 119.
- 2. For the uploadedfiles and uploadedimages directories, right click on the folder and choose **Properties**. On the **Directory** tab of the Properties dialog, ensure that the **Write** attribute is checked.
- 3. Exit IIS manager.
- 4. Open Windows Explorer.
- 5. Navigate to new Web site's folder.
- 6. Right click the uploadedfiles directory, and choose Properties.
- 7. On the **General** tab of the properties dialog, ensure the Read-Only attribute is not checked.
- On the Security tab of the properties dialog, ensure that the IIS anonymous user (usually named "IUSR_COMPUTERNAME") has Write permission.
- 9. Right click the uploadedimages directory, and choose Properties.
- 10. Repeat steps 7 and 8 for the uploaded images directory.

Step 4: Make the New Directory an IIS Application

- 1. Within IIS manager, right mouse click the folder created in "Step 2: Copy Files to Destination Directory" on page 119.
- 2. Select Properties.
- 3. In the **Application Settings** area, click **Create**.

nosting Pr	operties		? 🔀
Directory	Documents	Directory Security HTTP Headers	Custom Errors
When	connecting to © © ©	this resource, the content should corr The designated directory A share located on another compute A redirection to a <u>U</u> RL	ne from:
Lo <u>c</u> al P	ath:	hosting	
Scrip Rea Write Direct	o <u>t</u> source acce d e ctory <u>b</u> rowsing tion Settings	ess 🔽 Log <u>v</u> isits 🔽 Index this res	ource
Applicat	ion name:	Default Application	Create
Starting	point:	<pre> CDefault Web Site> </pre>	
Execute	e <u>P</u> ermissions:	Scripts only	
Applicat	io <u>n</u> Protection	Medium (Pooled)	Unjoad
		OK Cancel	Apply Help

4. Click OK.

Step 5: Back up the Database

WARNING! Do not use SQL Server Data Transformation Services to move the database. This feature is not compatible with Ektron CMS400.NET.

Ektron recommends backing up the database in the source folder then restoring the database backup to the destination folder. This procedure is described below.

- In the Ektron CMS400.NET source folder, open the web.config file and verify the name of the database. The database name appears after key="ek_dbCatalog" value=.
- 2. On the source server, open SQL Enterprise Manager and navigate to the database you identified in Step 1.
- 3. Right mouse click the database then select **All tasks > Backup database**.
- 4. Select a destination file name by clicking the **Add** button in the Destination area of the SQL Server Backup screen.

SQL Serv	ver Backup - CMS	5400Example	
General	Options		
	Data <u>b</u> ase:	CMS400Example	•
e	<u>N</u> ame:	CMS400Example backup	
Backu G	Desc <u>r</u> iption: p <u>D</u> atabase - complete Databa <u>s</u> e - differential		
, Cij Destina	Tansaction biographics and filegroup:	C Tane C Disk	
		Remo	ve

Step 6: Create a New Database

- 1. On the Destination server, open SQL Enterprise Manager.
- 2. Expand the display until you see the Databases folder.
- 3. Right click the Databases folder.
- 4. Choose New Database....
- 5. Assign a name to the database.
- 6. The remaining options can remain as defaults, or you can be edit them as needed.

Step 7: Restore the Database

Restore the database to the new destination folder. To do this, follow these steps.

- 1. Right click the database you created in "Step 6: Create a New Database" on page 122.
- 2. Select All Tasks > Restore database.

tore dat	tabase		
eneral (Options		
	<u>R</u> estore as database:	CMS400Example_3	
Restore:	O <u>D</u> atabase	C Filegroups or files	• From device
- Parame	ters		
De <u>v</u> ice	es:		
			Select Devices
Backu	p number: 1	View Contents	
🖲 Re	estore backup set		
۰	Database - complete		
0	Database - differentia		
0	Transaction log		
~ n		· · · · · · · · · · · · · · · · · · ·	
U He	ead backup set informal	ion and add to backup history	

- 3. In the **Restore as database** field, verify that the database you created in Step 6 appears.
- 4. In the **Restore** section, click **From device** (circled above).
- 5. Click the **Select Devices** button (circled above).
- 6. The Choose Restore Devices screen appears. Click the **Add** button (circled below).

hoose Restore De	vices	2
	en the backup is restored, SQL Server wil ices listed below.	I attempt to restore from the
Backup set:	(Unknown)	
Restore from:	• Disk O Lape	
	Device name	<u>A</u> dd
		Edit
		Bemove
		Re <u>m</u> ove All
Media verification of	blion	
Duly restore from	media with the following name:	

7. On the Choose Restore Destination screen (below), select **File name** and navigate to the backup file you copied to the destination folder.

Choose R	estore Destination
	Select the file name or backup device to use for the restore operation. Backup devices can be created for files that you use frequently.
• Eile n	ame
	C:\Documents and Settings\Administrator\Deskt
C Back	up device:
	OK Cancel

8. Click **OK** three times. SQL copies the data to the database you created in "Step 6: Create a New Database" on page 122.

Step 8: Set Security on the Copied Database

- 1. This procedure is described in "Set Up a User for the CMS400 Database" on page 100. Do this for the following users.
- IUSER
- ASPNET User

Step 9: Update web.config on the Destination Site

- 1. Within the destination site folder, open the web.config file.
- 2. Modify the following values as needed.

Web.config element	How to Modify
ek_dbCatalog	The name of the new database, if you changed it
ek_dbUsername	The database user, if you created one
ek_dbPassword	The database password, if you created one
ek_dbTrustedConnecti on	Whether the new database uses a trusted connection
ek_sitePath	The path to the new folder, relative to the server's webroot folder
WSPath	The full path to the folder that stores the Web Service URL for Server Controls at design time

Managing the web.config File

Ektron CMS400.NET's web.config file lets you control many key functions of the content management system. When you install **Ektron CMS400.NET**, web.config is placed into *webroot/siteroot*.

This section explains the settings in the web.config file.

NOTE In CMS300 and CMS200, most web.config settings were handled in the setup.*xxx* file.

If your server is currently running another .NET application, you must merge that web.config file with this one.

Note that all **Ektron CMS400.NET** settings begin with ek_ and reside within the <appSettings> tags of the web.config file. This prefix distinguishes **Ektron CMS400.NET**'s tags from others.

Settings in the web.config File

Setting	Description
Analytics	
enableAnalytics	Determines whether Ektron CMS400.NET tracks content analytics statistics in the database.
	For more information, see the Ektron CMS400.NET Administrator manual > "Content Analytics Feature" > "Enabling the Content Analytics Feature."
	Possible values are true and false.
appendTollSLog	Determines whether Ektron CMS400.NET tracks content analytics statistics in the IIS Log.
	For more information, see the Ektron CMS400.NET Administrator manual > "Content Analytics Feature" > "Writing to the IIS Log."
	Possible values are true and false.

Setting	Description
recordsBeforeWrite	Used to determine the frequency of writing content analytics statistics to the database (in number of page views). For more information, see the Ektron CMS400.NET Administrator manual > "Content Analytics Feature" > "Specifying the Frequency of Writing to the Database."
timeBeforeWrite	Used to determine the frequency of writing content analytics statistics to the database (in seconds). For more information, see the Ektron CMS400.NET Administrator manual > "Content Analytics Feature" > "Specifying the Frequency of Writing to the Database."
Connections Strings	
For SQL Server	 Use this connection string to define an SQL server. name="Ektron.DbConnection" providerName="System.Data.SqlClient" connectionString - this part of the connection string contains the following element. server - the name of the database server to which Ektron CMS400.NET is installed. If installed locally, the value is localhost. This value is set during installation, at the Host screen. database - use the name of the database. Integrated Security - use True or False. True - use integrated security. user - If required, specify the username used to connect to the DSN. This user account must have at least read and write permissions to the database. Note: This value can be blank if you are using Windows authentication. pwd - If required, specify the password for the username given. It should match your database name.

Setting	Description
For Oracle	Use this connection string to define an SQL server. name= "Ektron.DbConnection" providerName= "System.Data.OracleClient" connectionString - this part of the connection string contains the following element. • Data Source - orcl • User ID - system • Password - welcome
appSettings	
GoogleMap	Enter connection information for using Google Maps with the Mapping feature in Ektron CMS400.NET .
VirtualEarthMap	Enter connection information for using Virtual Earth maps with the Mapping feature in Ektron CMS400.NET .
ek_TreeModel	 Choose whether or not to use Ajax for the folder tree in the Workarea. 0 - use the legacy folder tree in the Workarea. 1 - use Ajax for the folder tree in the Workarea. Important: This key has been removed from the Web.config file. However, you can still use this key by adding it between the <appsettings> tags. For example, <add key="ek_TreeModel" value="0">< changes the folder tree in the Workarea back to legacy.</add></appsettings>
ek_workareaDateFormat	 Choose how you want to display dates in some areas of the Workarea. long - for example, Saturday May 21, 2005 short - for example, 5/21/2005
ek_sitePath	The location of Ektron CMS400.NET relative to the Web root. This value is set during installation at the Site Path Directory screen. If you move Ektron CMS400.NET to another folder, you must update this value.
ek_buildNumber	This value is set by the installation program. You typically would not change it.

Setting	Description
ek_version	This value is set by the installation program. You typically would not change it.
ek_appPath	This element is prefixed by the ek_sitePath value and describes the location of the workarea folder. This file stores external applications (such as eWebEditPro and eWebDiff), templates, and the images folder.
ek_xmlPath	The location of the xmlfiles directory. The ek_sitePath path is prefixed to this location.
	You would only change this value if you want to move the location of the xml files relative to the Web root.
ek_pluginDir	not used currently for future use
ek_appName	The name of the application, CMS400. You typically would not change this value.
ek_RedirectorInstalled	Sets whether the redirector is turned on or off in the Ektron CMS400.NET Workarea. Turning the redirector on enables the option of aliasing the URL of your Web site. The default is false .
	• True = Aliasing turned on
	• False = Aliasing turned off
	See Also: The Administrator's Manual section "URL Aliasing".
ek_RedirectorManualExt	Set a comma-delimited list of Web page extensions for which you will want to create aliased pages. For example, ".aspx,.htm,.html,". By default the list contains .aspx .
	NOTE You can enter one or more extensions. Each extension must begin with a period, and the last extension must be followed by a comma (,).
	See Also: The Administrator's Manual section "URL Aliasing".
ek_LDAPMembershipUser	Integrate membership users with LDAP or Active Directory. Set the value to True for Membership Users to be authenticated using LDAP/AD.

Setting	Description			
ek_appImagePath	The folder that stores the images within Ektron CMS400.NET , such as toolbar icons. You would only change this value if you need to move the images folder to another location.			
	Note that this value is prefixed by the value set in the ek_appPath variable. By default, ek_appPath is set to <pre>webroot/cms400Min/ workarea/. So, by default, this folder is set to <pre>webroot/cms400Min/ workarea/images/application/.</pre></pre>			
ek_appeWebPath	The folder that stores eWebEditPro, Ektron CMS400.NET 's editor. You would only change this value if you need to move the editor to another location.			
	Note that this value is prefixed by the value set in the ek_appeWebPath variable. By default, ek_appeWebPath is set to webroot/CMS400Min/workarea/. So, by default, this folder is set to webroot/CMS400Min/workarea/ewebeditpro.			
ek_appXSLTPath	The folder that stores XSLTs. You would only change this value if you need to move the XSLT folder to another location.			
	Note that this value is prefixed by the value set in the ek_appPath variable. By default, ek_appPath is set to <pre>webroot/CMS400Min/ workarea/. So, by default, this folder is set to <pre>webroot/CMS400Min/ workarea/Xslt.</pre></pre>			
Images - These images appear before the user signs in, so cannot be stored in the database. Update as				
Their location is set in the ek_appImagePath variable. See Also: "ek_appImagePath" on page 130				
ek_Image_1	close button			
ek_Image_2	small login button			
ek_Image_3	big login button			
SMTP server configuration - See "Configuring SMTP Settings" on page 143				
ek_SMTPServer	The server that processes email			
ek_SMTPPort	The port your system uses to retrieve email			
ek_SMTPUser	The username set up to send and receive email			
Setting	Description			
---------------------------------------	---	--	--	--
ek_SMTPPass	The password set up to send and receive email			
Mail Format				
ek_MailFormat	The format of the email created in Ektron CMS400.NET . A value of HTML generates email in HTML format, while a value of Text generates plain text email.			
SSL Support - See "Updating the web	o.config File" on page 164			
ek_UseSSL	Determines if server will use SSL for security			
ek_SSL_Port	SSL port used by Web server.			
Active Directory Server Configuration	on			
ek_ADEnabled	Whether your Ektron CMS400.NET uses Active Directory support.			
ek_ADAdvancedConfig	Enable Active Directory advanced configuration.			
ek_ADUsername	User name for the Active Directory server.			
ek_ADPassword	Password for the Active Directory server.			
ek_AUTH_Protocol	The directory access protocol used with the Active Directory feature. The default value is LDAP. Other protocols are GC (global catalog) and WINNT.			
Menu Settings				
ek_UserMenuType	Determines the appearance of the menu that appears within every content block after the user signs in.			
	• 0 - New dynamic menu - menu only appears when user moves cursor over content block			
	 1 - Old classic menu - menu always appears 			
	See Also: Ektron CMS400.NET Administrator Manual section "Introduction to Ektron CMS400" > "Getting Started" > "Recognizing Content Blocks" > "The Floating Toolbar"			

Setting	Description	
ek_MenuDisplayType	 This setting only works if ek_UserMenuType is set to zero (0). Determines the appearance of the menu that appears within every content block after the user signs in. 0 - Horizontal - menu icons are arranged horizontally 1 - Vertical - menu icons are arranged vertically and include the tooltip text See Also: Ektron CMS400.NET Administrator Manual section 	
Multilingual Settings	"Introduction to Ektron CMS400" > "Getting Started" > "Recognizing Content Blocks" > "The Floating Toolbar"	
ek_EnableMultilingual	 Enable or disable support for multilingual content 1 - enable 0 - disable See Also: Ektron CMS400.NET Administrator Manual section "Multi-Language Support" > "Working with Multi-Language Content" > "Enabling/Disabling Support for Multiple Language Content" 	
ek_DefaultContentLanguage	Sets the four-digit, decimal representation of the default content language. For example, American English is 1033. If you have another version of an Ektron CMS (e.g., CMS200) or an earlier than 4.7 version of CMS400, all content blocks are set to this value during the upgrade. <i>See Also:</i> Ektron CMS400.NET Administrator Manual section "Multi-Language Support" > "Working with Multi-Language Content" > "The Default Language"	
ek_ServerURL Miscellaneous Settings	Mainly used in Web services to determine the location of a remote server. For example, in a Web farm environment, the content server can reside in a remote location. In this case, the developer's content is replaced with this value, so all and <href references point to server named here instead of the local one.</href 	
WSPath	Determines the location of the Web services page used by the server controls at design time.	

Setting	Description	
ek_BatchSize	The number of files that can be uploaded at the same time. The default is 4 , but it can be any non negative number.	
	Note: Users can upload any amount of files. The system handles them four at a time.	
ek_CacheControls	Choose whether to enable caching for Ektron CMS400.NET server controls or not. For information on Caching with Ektron CMS400.NET server controls, see the Developer Manual section > "Introduction to Ektron CMS400.NET Server Controls" > "Caching with Server Controls".	
	 0 - Disable 1 - Enable 	
ek_WorkareaSearchResultMode	 Sets the Workarea search-results mode. text - returns a text only version of the search results. mixed - returns text and images associated with search results. graphical - returns a images associated with search results. 	
ek_WorkareaLibSearchResultMode	 Sets the Workarea Library search-results mode. text - returns a text only version of the library search results. mixed - returns text and images associated with library search results. graphical - returns a images associated with library search results. 	
ek_ShowWorkareaRetErrorReferrer	 Choose whether to enable referrer debug information on the RetError.aspx page. True - enable False - disable 	
ek_QueueName	Path to the message queue.	
ek_LogFileName	Path to the log file name for the message queue	

Setting	Description	
ek_loginAttempts	Ektron CMS400.NET has a login security feature that, by default, locks out a user after five unsuccessful attempts to log in. That feature is controlled by this element.	
	For details, see the Ektron CMS400.NET Administrator Manual section "Getting Started" > "Logging Into an Ektron CMS400.NET Web Site" > "Restricting Login Attempts."	
ek_passwordCaseSensitive	By default, passwords are case insensitive. So for example, if the password is TOKEN and the user enters token, the sign-on is successful.	
	If you want to make passwords case sensitive, change the value of this element from false to true .	
	If you do, and the password is TOKEN and the user enters token, the sign-on is unsuccessful. The user would have to enter TOKEN to sign on.	
ek_LinkManagement	This setting determines if Ektron CMS400.NET uses linkit.aspx when inserting a guicklink. By default, it is set to true.	
	If set to true, when a user inserts a quicklink, Ektron CMS400.NET inserts a <i>special link</i> instead of a quicklink. A special link determines the correct quicklink to use when a site visitor clicks it.	
	For example, a user adds a content block to folder A. A quicklink to that content is a.aspx?id=10. Later, if an administrator changes the folder's template but doesn't update the quicklink within the content block, the quicklink is broken.	
	To avoid this problem, enable link management.	
ek_LoginScreenWidth	The width of the login screen in pixels. You may need to widen the screen if you are using Active Directory and the database names are long.	
ek_ToolBarFormatTag	Note: This setting only applies after a user signs in to your site	
	Change this setting if the selenal hander that surrounds content	
	looks wrong. (The border color indicates the content's status.)	
	By default, tags create the border. If the border looks wrong or inappropriate, change setting to div . If you do, <div> tags are used to draw the border instead of tags.</div>	
	i his change typically solves the problem.	

Setting	Description	
ek_PageSize	This setting determines the maximum number of items that can appear on a page before it "breaks." When a page breaks, additional entries appear on another screen, and the following text appears near the bottom of the items list: Page 1 of 2 [First Page] [Previous Page] [Next Page] [Last Page]	
	Note: The above text changes depending on the page you are viewing.	
	You must click an option to see and update the remaining items. This setting affects pages that let you edit the following items: • content	
	 library items monulitame 	
	collection items	
	membership users	
	membership users not verified	
	• forums	
ek_XliffVersion	Define the XLIFF version to use when exporting files. See Also: the Administrator Manual section "Multi-Language Support" > "Using the Language Export Feature" > "What is XLIFF?"	
ek_LogLevel	Choose the level of information sent to the application event log.	
	• 0 - off, no information is sent	
	• 1 - all information, warnings and errors are sent	
	• 2 - only warnings and errors are sent	
	• 3 - only errors are sent	
ek_EnableReplication	Choose whether dynamic replication is enabled or not.	
	True - enable dynamic replication	
	False - disable dynamic replication	
ek_ReplicationWS	The path to the Replication Web service.	

Setting	Description	
ek_extensionServiceEnabled	Enable Extensibility Plug-in service. For more information on Plug- ins, See Also: The Developer Manual section "Plug-in Extension"	
ek_EnableDeveloperSamples	Enable the API developer samples on the Developer demo site shipped with CMS400.NET.	
	True - enable developer samples	
	• False - disable developer samples	
ek_assetPath	The folder that stores Assets. You would only change this value if you need to move the Assets folder to another location.	
	Note that this value is prefixed by the value set in the ek_appPath variable. By default, ek_appPath is set to <pre>webroot/CMS400Min</pre> . So, by default, this folder is set to <pre>webroot/CMS400Min/assets</pre> .	
mediaSettings		
WindowsMedia-CLSID	The class ID for the Windows Media Player.	
Quicktime-CLSID	The class ID for the Quicktime player.	
Realplayer-CLSID	The class ID for the Real player.	
Flash-CLSID	The class ID for the Flash player.	
WindowsMedia-Codebase	Location of the code base plug-in for Windows Media Player.	
Quicktime-Codebase	Location of the code base plug-in for Quicktime player.	
Realplayer-Codebase	Location of the code base plug-in for Real player.	
Flash-Codebase	Location of the code base plug-in for Flash player.	
application/x-shockwave-flash	Define the relationship between the Shockwave Flash mime type and the Flash player.	
audio/x-wav	Define the relationship between the WAV mime type and the Windows Media, Quicktime and Real players.	
audio/x-wav-default	Define the relationship between the WAV default mime type and the Windows Media Player.	
video/x-avi	Define the relationship between the AVI mime type and the Windows Media, Quicktime and Real players.	

Setting	Description	
video/x-avi-default	Define the relationship between the AVI default mime type and the Quicktime player.	
video/x-msvideo	Define the relationship between the msvideo mime type and the Windows Media, Quicktime players.	
video/x-msvideo-default	Define the relationship between the msvideo default mime type and the Windows Media Player.	
audio/x-ms-wma	Define the relationship between the MS-WMA mime type and the Windows Media Player.	
audio/mpeg	Define the relationship between the MPEG mime type and the Windows Media Player.	
video/x-realvideo	Define the relationship between the realvideo mime type and the Real player.	
video/x-ms-wmv	Define the relationship between the MS-WMV mime type and the Windows Media Player.	
audio/x-realaudio	Define the relationship between the realaudio mime type and the Real player.	
video/quicktime	Define the relationship between the quicktime mime type and the Quicktime player.	
Miscellaneous		
HttpHandlers	This section sets how the URL Aliasing feature handles URLs with certain extensions. If you have any extension you do not want aliased, add it below the following line using the same syntax. add verb="*" path="*.png" type="URLRewrite.StaticFileHandler,Ektron.Cms .URLRewriter" />	
maxRequestLength	This setting determines the maximum size of files that can be uploaded to your server. The default setting is 204,800 kilobytes, or 200 MB. Enter the desired value in kilobytes. To convert megabytes to kilobytes, go to http://www.onlineconversion.com/computer.htm.	

Configuring E-Mail Notification for Tasks and Content

An email is sent to notify users when a task (such as approving a content block or submitting a form) was performed or needs to be performed. This section explains the steps needed to use Microsoft's SMTP service to enable this kind of e-mail notification in Ektron CMS400.NET.

To learn about email notification for Web Alerts, see "Installing the Web Alert Feature" on page 147.

CDOSYS

To process email, **Ektron CMS400.NET** uses the CDOSYS model. Using the Simple Mail Transport Protocol (SMTP) and the Network News Transfer Protocol (NNTP) standards, CDOSYS enables applications based on Windows XP, Windows 2000 or Windows 2003 to route e-mail and USENET-style news posts across multiple platforms.

CDOSYS, the successor to CDONTS, is as easy to use as CDONTS but is more powerful by letting authors create and view sophisticated emails using html and data sources.

NOTE If the SMTP server that is processing email does not find CDOSYS installed, it tries to use CDONTS as a mail server protocol.

Set up SMTP Server

For CDOSYS to work, set up the SMTP server on your local system (to which you installed **Ektron CMS400.NET**) or a remote system that sends and receives email.

NOTE To access an SMTP server on a local or remote system, consult the system administrator who manages email in your organization. This administrator may not be the same as the Ektron CMS400.NET administrator.

 Local - Before setting up an SMTP server on your local system, install IIS. The SMTP server settings on a local system would be something like this:

"ek_SMTPServer" value="localhost"

"ek_SMTPServer" value="127.0.0.1"

```
"ek_SMTPServer" value="myname"
```

 Remote - Set up an SMTP server on a remote system. The SMTP server on a remote system can be something like this: "ek_SMTPServer" value= "smtp.example.com"

"ek_SMTPServer" value= "example.com"

After the SMTP server is set up, configure it as described in "Verification for Relay" on page 139.

Verification for Relay

To verify that your Ektron CMS400.NET Web server's IP address supports relay through your SMTP server, follow these steps.

NOTE The WWW and SMTP components of IIS must be installed on the Web server to which Ektron CMS400.NET is installed.

1. On your SMTP server, access your Internet Services Manager in the Administrative Tools.



- 2. In the IIS Management Console, select the SMTP virtual server.
- 3. On the Action menu, click **Properties**.

📲 Internet Information Service				
File Acti	on View Help			
⇔ ⇒	🔁 📧 💣 🚱			
🍓 Internet	: Information Services			
🖻 - 🚚 Ame	ROSE (local computer)			
÷	Web Sites			
÷	FTP Sites			
🗄 🏷 Default SMTP Virtual Serv				
	Start			
	Stop			
	Pause			
View 🕨				
	Rename			
	Refresh			
	Export List			

4. The SMTP properties window opens.



5. Click the Access tab.

6. The access properties appear.

Default SMTP Virtual Server Properties	? ×
General Access Messages Delivery LDAP Routing Security Access control Edit the authentication methods for this resource.	
Secure communication View or set the secure communications method used when this virtual server is accessed. Communication	
Connection control Grant or deny access to this resouce using IP addresses or Internet domain names.	
Relay restrictions Grant or deny permissions to relay e-mail through this SMTP virtual server.	
OK Cancel Apply He	lp

- 7. In the Relay Restrictions section, click the **Relay...** button.
- 8. The Relay Restrictions window opens. Set or remove relay restrictions.

Select which computer r	may relay through	this virtual server	:
Only the list below	N		
C All except the list	below		
Computers:			
Access	IP Address (Ma	sk) / Domain Na	me
Add Re	move		
Add Re Allow all computers of the list above.	move which successfully	authenticate to	relay, regard

Νοτε

For more information, see "Setting or Removing Relay Restrictions from a Virtual Server" from this Web page: http://www.microsoft.com/WINDOWS2000/en/ professional/help/moc04_57.htm>

Configuring SMTP Settings

Next, configure Ektron CMS400.NET to use SMTP.

- 1. Open the web.config file. (See "Managing the web.config File" on page 126.)
- 2. Move to the section of the file that has these settings.

<!-- SMTP Server configuration -->

<add key="ek_SMTPServer" value="localhost" />
<add key="ek_SMTPPort" value="25" />
<add key="ek_SMTPUser" value="" />
<add key="ek_SMTPPass" value="" />

3. Set the ek_SMTPServer value. See "Set up SMTP Server" on page 138.

- 4. Set the ek_SMTPPort value to the port your system will access to retrieve email. In most cases, the port is set to 25. If that is not the case, see your System Administrator.
- 5. Set the ek_SMTPUser value to the username that is set up for the SMTP Server to send and receive email. Typically, the username takes the form of an email address, such as "ek_SMTPUser" value="yourname@example.com".

This retrieval of email is based on how basic authentication is set up for you, though you do not need a username when using a local SMTP server. Check with your System Administrator for details.

If you are using a remote system for accessing email, you must provide an authenticated username before you can send or receive email.

 Set the "ek_SMTPPass" value to the password that is set up for the SMTP server to send and receive email. This password is based on the basic authentication. By default, the Ektron CMS400.NET only accepts passwords in the encrypted form.

To encrypt the password, Ektron provides a password encrypting tool. See "The Encrypt Password Utility" on page 144.

The Encrypt Password Utility

To use the utility tool EncryptEmailPassword.exe, follow these steps.

- 1. Open C:\Program Files\Ektron\CMS400\Utilities
- 2. Run EncryptEmailPassword.exe.
- 3. The Encrypt Utility dialog appears.

🐮 🖪 Encryj	pt			
Encrypt v. 1.1.0.1				
Copyright (c) 1999-2000, Ektron, Inc.				
<u>T</u> ext:				
Encrypt	ed:			
	<u>Encrypt</u>	se		

- 4. Enter your SMTP password in the Text field.
- 5. Click the **Encrypt** button.
- 6. The screen displays an encrypted password in the **Encrypted** field.
- 7. Copy the encrypted password and paste it into the web.config file after "ek_SMTPPass" value=.

Error Messages

When submitting a form or a content block in an approval process, if you get an error message listed below, it is generated by the SMTP server on which you set up the mail system, *not* by **Ektron CMS400.NET**.

- The Transport failed to connect to the server. [CBR SendMail R1] [CBR R65] [DIO R 36]
- The server rejected one or more recipient addresses. The server response was: 550 5.7.1 Unable to replay for yourname@example.com [CBR SendMail R1] [CBR R1] [DIO R36]

What's Next?

After you set up the mail server, you can begin using **Ektron CMS400.NET**. For e-mail notification to work properly in Ektron CMS400.NET, the following criteria must be met.

- Valid system email address
- Email notification is enabled in the settings table
- Valid user email address
- User email notification is enabled

For information about these settings, refer to the Administrator Manual.

Installing the Web Alert Feature

The Web Alert feature enables **Ektron CMS400.NET** to generate email for a list of registered users whenever new content appears on your site, or existing content is updated.

For example, anyone may register to be notified whenever new information about your product is published. As soon as the page is published on your site, registered users receive an email announcement with a link to the new/updated page. The recipient clicks the link and immediately accesses the page.

As a result, a self-selected group of users can be instantly notified of changes on your Web site relating to their interests. Once the system is set up, you don't need to do anything -- everything happens in the background.

This section describes how to install the Web Alert feature. For additional information about setting up and using the feature, see the **Ektron CMS400.NET** Administrator manual section "Web Alert Feature."

Server Configuration

The following illustration depicts a typical Web server configuration you would use with the Web Alerts feature.



- Firewall the Ektron CMS400.NET business tier must have Web access to the asynchronous server. The business tier maintains the CMS files. This configuration enables proper communication between Ektron CMS400.NET and the asynchronous processor.
 - The asynchronous processor must have port 25 (SMTP) access to a valid mail server to send emails
 - The mail server (omitted from the illustration) must be allowed to send out port 25 (SMTP) traffic and can be on the Async server
- **Queuing** Message queuing must be installed on the Async server.

You must create a message queue on the Async machine and record its name. The message queue is specified in the exe.config file for the service, and the web.config file for the Web Service interface.

• **CMS** - The web.config file includes a key for the location of the asynchronous processor. This needs to be verified as working.

• Other - IIS must be installed on the asynchronous processor. IIS allows a Web service call to schedule a file download and send commands.

Ektron recommends that the Async machine only allow HTTP traffic from **Ektron CMS400.NET** servers. This provides additional security on the Async processor.

Verifying Connections

- You can verify the Web service > queue connection by
 - leaving the Ektron service off, submitting content with notifications, and verifying that a message arrived in the queue
 - turning on journaling for the queue. Submit a message in the queue. The Ektron service picks it up and places it in the journaled messages.
 - turning on logging for the Ektron service
- To verify the CMS > Web service connection, open the asynchronous processor location inside a Web browser and test the Web services.

To verify the writing of files, ensure that **Ektron CMS400.NET** has write access to the [sitepath]subscriptions directory and submit content that will trigger notifications. This action places a file inside that directory.

• To verify that the service can download a file, open a Web browser on the Async machine and connect to the location of the notification command files. Attempt to download one.

Enabling the Web Alert Feature

Enabling the Web Alert feature involves the following steps. This section explains each step in detail.

Ste	ep	Description	For more information, see
1.	Set up message queue and asynchronous pro- cessor.		"Setting Up the Message Queue and Asynchronous Processor" on page 151

Step		Description	For more information, see
2.	Create messages.	Define components of the email to be sent to subscribers.	Ektron CMS400.NET Administrator Manual section "Web Alerts" > "Creating the email Message"
3.	Define subscriptions.	Categories of information on your site. Site visitors can subscribe to be notified when content in a category is added or updated.	Ektron CMS400.NET Administrator Manual section "Web Alerts" > "Defining Subscriptions"
4.	Assign Web Alert information to folders and content.	 Assign Web Alert information to folders and content items which, when published, trigger emails. For each folder or content item to which you assign subscriptions, determine activities that trigger emails (for example, only upon initial publication of content) the content of the email the subscription list(s) to whom the email is sent 	Ektron CMS400.NET Administrator Manual section "Web Alerts" > "Assigning Web Alert Information to Folders and Content"
5.	Create and publish site visitor registration page.	Create a new Web form and drop the membership server control onto it. Then, publish that form on your Web site. Note: This task is typically done by a developer.	Ektron CMS400.NET Developer's Manual > "Introduction to Ektron CMS400.NET Server Controls "> "Membership Server Control"
6.	Site visitors subscribe to lists of interest.	Someone signs up to be notified when changes in a selected subscription (category) are published on your Web site.	Ektron CMS400.NET Administrator Manual section "Web Alerts" > "How Users Sign up for Subscriptions"
7.	CMS users can also subscribe.		Ektron CMS400.NET Administrator Manual section "Web Alerts" > "CMS User Subscription Sign Up"

Ste	ер	Description	For more information, see
8.	Subscribers are automatically notified when content is updated.	Web content is either first published or updated. If at least one subscription is assigned to the content or its folder, email is sent according to pre-defined criteria for the folder.	

Setting Up the Message Queue and Asynchronous Processor

After installing **Ektron CMS400.NET** version 5.1 or higher, you need to set up the Microsoft Message Queuing and the Ektron Asynchronous Processor. It is assumed that the following directories and files are installed on your server:

- C:\Program Files\Ektron\CMS400v61\EktronAsyncProcessor_Service\
- C:\inetpub\wwwroot\CMS400Min\bin\EktronAsyncProcessorWS.dll
- C:\inetpub\wwwroot\CMS400Min\Workarea\webservices\EktronAsyncProce ssorWS.asmx

NOTE If you need to move Web services file, use the **Asynchronous Processor Location** field in the Configuration > Setup screen to specify the new folder location.

- On the server that hosts Ektron CMS400.NET, go to Control Panel > Add/Remove programs > Add/Remove Windows Components.
- 2. If it is not checked, check Message Queuing Services.

Windows Components Wizard		
Windows Components You can add or remove components of Windows 2000.		
To add or remove a component, click the checkbox. A shaded part of the component will be installed. To see what's included Details. Components:	box means that only in a component, click	
Internet Information Services (IIS)	18.2 MB	
Anagement and Monitoring Tools	0.9 MB	
🔲 🚾 Message Queuing Services)	2.6 MB	
🔲 🚉 Networking Services	0.1 MB	
Other Network File and Print Services	помв 🗾	
Description: Enables fast full-text searching of files.		

- **NOTE** On Windows 2003, it is within the Application Server Components group.
 - 3. If **Message Queuing Services** was checked when you viewed it, go to step 4.

If it was not checked, click **Next**. A wizard creates the component.

- **NOTE** The rest of this procedure employs a wizard that saves you several manual steps. If you have a problem using the wizard, or prefer to install Web Alerts manually so you can track the files being installed to your server, see "Manual Steps for Setting up the Message Queue and Asynchronous Processor" on page 157.
 - From the Windows Start Menu, click All Programs > Ektron > CMS400 > Utilities > Web Alerts Setup.
 - 5. The Web Alert Wizard setup screen appears.



6. Click Next. The wizard begins installing the Web Alerts feature.

Web_alerts - InstallShield Wizard	
Setup Status	
Web_alerts is configuring your new software installation.	
InstallShield	Cancel

7. The following screen appears.

Message Queue Name	.\Private\$\ msmq_web
SMTP Port	25
SMTP Server	localhost
SMTP Use	
SMTP Password	i
Log File Name	, [
	Logfile Verbose <u>C</u> ancel <u>N</u> ext

- 8. Enter the username and password that will be used to send and receive email.
- 9. At the **Log File Name** field, enter the name of the file that will track Web Alert activities. If you enter nothing, the file is named listener.log.

The file resides in the C:\Program

Files\Ektron\CMS400v61\EktronAsyncProcessor_Service folder. It is also available from the Workarea. See "Asynchronous Log File Reporting" on page 159.

- 10. If you want a very detailed log file, click **Logfile Verbose**.
- 11. Click Next. The following screen appears.

Web_alerts - InstallShield Wizard	
Choose Destination Location Select folder where setup will install files.	
Please enter the location of your Web.config file	
	Browse
InstallChield	
	< <u>B</u> ack <u>N</u> ext > Cancel

- 12. Either insert or browse to the folder that contains your web.config file. This is your site root folder. Then click **Next**.
- 13. If your Asynchronous Processor service is not running, the following message appears.



- 14. If you see this message, click **OK** then click **Finish**.
- 15. Go to **Control Panel > Administrative Tools > Computer Management > Services and Applications > Services**. Start the Ektron Async Processor Service.

Manual Steps for Setting up the Message Queue and Asynchronous Processor

This section describes manual steps for setting up the Message Queue and Asynchronous Processor. You can use this procedure if you had a problem using the wizard, or you want to know which files are being installed to your server.

- 1. Go to Control Panel > Administrative Tools > Computer Management > Services and Applications > Message Queuing.
- 2. Right click the Private Queues folder and select **New > Private Queue**.



- 3. Create a private queue named msmg_web.
- 4. Right click msmq_web and select Properties.



- 5. Go to the **Security** tab. You can give the Everyone group Full Control if you are in a testing environment. If you are on a production server or want better security, give the local system account (the account which the EktronAsyncProcessor Service runs as) the following permissions:
 - Delete
 - Receive Message
 - Peek Message
 - Send Message

Give the ASP.NET account (the account that the Web services interface runs as) Send Message permission.

- 6. Click **OK**.
- 7. Open the following file:

```
C:\Program
Files\Ektron\CMS400v52\EktronAsyncProcessor_Service\RegEktron.S
ervices.EktronAsyncProcessor.bat
```

8. Review and update as necessary the paths to the .NET directory and Ektron.Services.EktronAsyncProcessor.exe file.

WARNING! Update the paths to the .NET Directory and the .exe file if necessary.

9. Execute the .bat file.

Or, from a command line or **Start Menu > Run**, enter:

C:\Windows\Microsoft.NET\Framework\v1.1.4322\installutil "C:\program Files\Ektron\CMS400v52\EktronAsyncProcessor_Service\Ektron.Serv ices.EktronAsyncProcessor.exe"

10. Open the following file and enter your SMTP connection settings: C:\Program Files\Ektron\CMS400v52\EktronAsyncProcessor_Service\Ektron.Serv

ices.EktronAsyncProcessor.exe.config.
11. Go to Control Panel > Administrative Tools > Computer
Management > Services and Applications > Services S

Management > Services and Applications > Services. Start the Ektron Async Processor Service.

📕 Computer Management				
🖳 File Action View Window Help				
	?			
🖳 Computer Management (Local)	Name A	Description	Status	Startup
🖻 📆 System Tools	🎇 Alerter	Notifies sel		Disabled
🕀 🔟 Event Viewer	Application Layer Gateway Service	Provides s	Started	Manual
Shared Folders	🆏 Application Management	Provides s		Manual
Cocal Users and Groups	🍓 ASP.NET State Service	Provides s		Manual
Performance Logs and Alerts Device Mapager	🆏 Automatic Updates	Enables th	Started	Automat
	🏶 Background Intelligent Transfer Ser	Transfers		Manual
Berrovable Storage	🖏 ClipBook	Enables Cli		Disabled
isk Defragmenter	🖏 COM+ Event System	Supports S	Started	Manual
Disk Management	COM+ System Application	Manages t	Started	Manual
🖃 🌆 Services and Applications	Computer Browser	Maintains a	Started	Automat
🕀 🍯 Microsoft SQL Servers	Cryptographic Services	Provides th	Started	Automat
Services	DCOM Server Process Launcher	Provides la	Started	Automat
- 🍓 WMI Control	DHCP Client	Manages n	Started	Automat
🕀 🧕 Indexing Service	Distributed Link Tracking Client	Maintains li	Started	Automat
🕀 🍓 Internet Information Service	Distributed Transaction Coordinator	Coordinate	Started	Manual
🕀 🜌 Message Queuing	DNS Client	Resolves a	Started	Automat
	Ektron Async Processor			Automat
	Error Reporting Service	Allows erro	Started	Automat

Asynchronous Log File Reporting

Once the Message Queuing and Asynchronous Process is set up and running, you can access a log report about the Asynchronous process. This report shows any problems with the Asynchronous Processor. In addition to viewing the report, you can email it to any CMS400 user. For an explanation of emailing a report, see the User Manual section "Content Workflow Reports" > "Common Report Topics" > "emailing Reports".

To access the Asynchronous Process log, follow these steps.

- 1. In the Workarea's Smart Desktop, click the Reports folder.
- 2. Click the Asynchronous Log File link.
- 3. If the log has captured any problems, they are displayed on the screen.

Content Reports: Asynchronous Log File Report

🖗 🔶 🖗

Log File

Date: Tuesday, November 01, 2005 4:16:31 PM Exception Message: Access to Message Queuing system is denied. Stack Trace: at System.Messaging.MQCacheableInfo.get_ReadHandle() at System.Messaging.MessageQueue.StaleSafeReceiveMessage(UInt32 time at System.Messaging.MessageQueue.ReceiveCurrent(TimeSpan timeout, Int3 at System.Messaging.MessageQueue.Receive() at Ektron.Services.EktronAsyncProcessor.a.a()

Date: Tuesday, November 01, 2005 4:16:33 PM Exception Message: Access to Message Queuing system is denied. Stack Trace: at System.Messaging.MQCacheableInfo.get_ReadHandle() at System.Messaging.MessageQueue.StaleSafeReceiveMessage(UInt32 time at System.Messaging.MessageQueue.ReceiveCurrent(TimeSpan timeout, Int3 at System.Messaging.MessageQueue.Receive() at Ektron.Services.EktronAsyncProcessor.a.a()

Configuring SSL

In **Ektron CMS400.NET**, you can use SSL when users log in to your Web site. SSL encrypts the username and password during transmissions to the server.

When you set up the SSL certificate, and configure Ektron CMS400.NET to use it, the login page is launched in a Secure Socket Layer. This section explains how to set up SSL for Ektron CMS400.NET.

Setting Up the Certificate

If your Web server does not have a certificate installed, you need to install one. To do so, follow these steps.

- 1. Access the Internet Information Server Administrator Console on your Web server.
- 2. Navigate to the computer and Web site to which Ektron CMS400.NET is installed.
- 3. Right click on the Web site.
- 4. Click Properties.
- 5. Click the Directory Security tab.

Default Web Site Properties		
Web Site Performance ISAPI Filters Hom Directory Security HTTP Headers Custom Err	e Directory Documents fors Server Extensions	
Anonymous access and authentication control Enable anonymous access and edit the authentication methods for this resource.	<u>E</u> dit	
IP address and domain name restrictions Grant or deny access to this resource using IP addresses or internet domain names.	Edjt	
Secure communications Require secure communications and enable client certificates when this resource is accessed.	<u>S</u> erver Certificate ⊻iew Certificate	
OK Cancel	Egit Apply: Help	

6. In the Secure communications area, click the **Server Certificate** button.



- 7. Use the wizard to set up a certificate for your Web site.
- 8. Close the wizard. You return to the Properties window.
- 9. Click the **Web Site** tab at the top of the Properties window.

Default Web Site Properties		
Directory Security HTTP Headers Custom Errors Server Extensions Web Site Performance ISAPI Filters Home Directory Documents		
Web Site Identification		
Description: Default Web Site		
[P Address: (AI Unassigned)		
ICP Port: 80 SSL Port: 443		
Connections		
C Unlimited		
Limited To: 10 connections		
Cognection Timeout: 900 seconds		
HTTP Keep-Alives Enabled		
✓ Enable Logging Acti⊻e log format:		
W3C Extended Log File Format		
OK Cancel Apply Help		

- 10. Set the SSL Port that the Web server will use.
- 11. Click OK.

Updating the web.config File

Next, configure Ektron CMS400.NET to use the SSL certificate.

- 1. Open the web.config file. (See "Managing the web.config File" on page 126.)
- 2. Move to the section of the file that has these settings.

```
<add key="ek_UseSSL" value="false" /><add key="ek_SSL_Port" value="443" />
```

3. Set the ek_UseSSL value to true.

WARNING! If the ek_UsessL value is **true**, but you did not install the certificate to the Web Server, you cannot log into Ektron CMS400.NET.

- 4. Set the ek_SSL_Port value to **443** (unless you specified another SSL port).
- 5. Save and close the file.

You are ready to use the SSL support for Ektron CMS400.NET.

Customizing Ektron CMS400.NET

The following chapter contains information about customizing your **Ektron CMS400.NET** application. The topics that are discussed are:

- "Customizing Ektron CMS400.NET email" on page 167
- "Branding Ektron CMS400.NET" on page 171
Customizing Ektron CMS400.NET email

Introduction

Ektron CMS400.NET can send email notification to users, informing them that actions have either taken place or are requested of them. For example, a content contributor receives an email that his content has been published to the Web site.

These emails are stored in the resource files. In that file, each email consists of one string for the subject and one for the body. Ektron CMS400.NET does not support HTML email, however the message text is fully customizable.

The procedure for customizing resource files is documented in the **Ektron CMS400.NET** Administrator manual section "Multi-Language Support" > "Translating the Workarea" > "Procedure for Translating Workarea Strings."

The body of an email can include variables, located between @ symbols. Ektron CMS400.NET replaces these variables with the information for that instance of the email. For example, @appContentTitle@ in the following sentence is replaced with the email's title.

Before	The content "@appContentTitle@" has been deleted.
After	The content "Home Page Content" has been deleted.

These emails can be customized. The variables can be taken out or moved around. More text can be added; text can be rewritten or reorganized.

Before	"@appContentTitle@" has been deleted from the XYZ Web site.
--------	---

After	"About Us" has been deleted from the XYZ Web site.

Each message is called in the presentation layer by its message title.

Carriage Return/Line Feeds are represented by the variable @appCRLF@. These cause the email to move down one line. For example:

Before	The content was approved.@appCRLF@Thank you!
After	The content was approved. Thank you!

Variables

The following table lists variables you can use to customize email messages. When the email is sent, the corresponding description replaces the variable.

Variable	Inserts
@appCRLF@	A carriage return.
@appContentTitle@	The title of the content block.
@appDeletionDateTime@	The date and time the content will be deleted from the Web site.
@appChangeDateTime@	The date and time changes will be updated on the Web site.
@appDeclinerFirstName@	The first name of the user who declined the content block.
@appDeclinerLastName@	The last name of the user who declined the content block.
@appSubmitterFirstName@	The first name of the user who submitted the content block.
@appSubmitterLastName@	The last name of the user who submitted the content block.

Variable	Inserts
@appFolderPath@	The location of the content block in the folder tree in the Ektron CMS400.NET Workarea.
@appContentLink@	The link to the content block on the Web site.
	Note: You must be logged in to see the changes.
@appSubmitterDateTime@	The date and time the content block was submitted.
@appApprovalList@	The current approval list that the content block must pass through.
@AppComment@	Displays the comments for the content block.

List of Ektron CMS400.NET Default email

Notify Approval Process Complete

Because of the logic, there are four emails for notifying that the approval process is complete.

Deletion of Content Approved

Message Title: email subject: content deletion approved.

Message Text: Deletion of content has been approved.

Immediate Deletion of Content

Message Title: email subject: content has been deleted.

Message Text: Content has been deleted.

Approved Content Awaiting Go Live Date

Message Title: email subject: content changes approved.

Message Text: Content changes have been approved.

Approved Content Published Immediately

Message Title: email subject: content has been changed.

Message Text: Content changes have been made.

Decline Approval Request

Message Title: email subject: approval request declined.

Message Text: Content approval request declined.

Send Approval Message

Message Title: email subject: request for approval.

Message Text: Request for content approval.

Branding Ektron CMS400.NET

Ektron CMS400.NET can be branded by a Web Developer. Through the use of a style sheet and replacing Ektron CMS400.NET's default graphics, the application can take on a different look that is fully customizable. Developers can incorporate a company logo, institute company colors, and control the look and feel of the application to create a personalized, web-based, content management solution.

Style Sheet

Ektron CMS400.NET's style sheet, global.css, is located in the *I* csslib folder under the **Workarea** directory.

Using widely accepted style sheet classes and class attributes, you can modify the application, including colors, spacing, fonts, etc. Also, if you later upgrade or re-install **Ektron CMS400.NET**, you can reuse this file and retain your changes.

Class Explanation

General Classes

Class	Description
.titlebar	Located at the top of every page in the application. Used for page explanations or location explanation. While navigating through Ektron CMS400.NET, this page header or "titlebar" tells the user where he is (for example, Viewing content in content.aspx).
.titlebar-error	Similar to titlebar; used to display error messages.
.input-box-text	In front every input box is text explaining its purpose. This class controls that text.
.title-header	Used under the titlebar to list information. For example, it is used for column headers.
.info	Any important information that should stand out. An example is in the content page when showing the attributes of the content block.
.info-header	Similar to the info class; used for information that should stand out but starts a new section on a page. Examples are metadata and summary on the content block properties page.
.toolbar	The background of the toolbar.
	Note: Change this class only if you are changing all toolbar icons.

Workarea Classes

Class	Description
.Workarea	The background color of the Workarea.
td.FolderButtonBarNm	Text of top-level folders that appear in the lower left corner of the Workarea (Content, Forms, Library, Modules and Settings).

Class	Description
td.FolderButtonBarOver	Text that appears when you hover the cursor over top-level folders that appear in the lower left corner of the Workarea (Content, Forms, Library, Modules and Settings)
td.FolderButtonBarSelectedOver	Selected text in the lower left corner of the Workarea (Content, Forms, Library, Modules and Settings)
td.FolderButtonBarSelected	Text that appears when you hover the cursor over selected text of top-level folders that appear in the lower left corner of the Workarea (Content, Forms, Library, Modules and Settings)
td.FolderResizeBar	The bar at the top of the top-level folders that appear in the lower left corner of the Workarea (Content, Forms, Library, Modules and Settings). Use this bar to switch the display of folders between icons and full buttons.
td.NavIconBarNm	The minimized top level folder icons properties. The following example shows minimized icons with a brown background.
td.NavIconBarOver	The minimized top level folder icons hover over properties. The following example shows the Forms icon with a light orange background, while hovering over it.
td.NavIconBarSelectedOver	Properties of the minimized top level folder icons when selected then hovered over. The following example shows the Forms icon with a dark blue background, while selected and hovering over it.

Class	Description
td.NavIconBarSelected	The minimized top level folder icons properties, when selected. The following example shows the Forms icon with a green background when selected.
body.FolderIconBar	The bottom bar in which the minimized top level folder icons appear. The following example shows the bar green.
table.FolderToolbar	The top left bar where the Smart Desktop and pin buttons are located. The following example shows the bar red. Smart Desktop

Class	Description
body.FolderArea	The folder area on the left of the screen. The following is an example of a green background with red scrollbars.
.WorkareaToolbar-nm	The Workarea toolbar properties for the buttons section. The following is an example of a red background. View Contents of Folder "Content" Difference Difference
.WorkareaToolbar-ovr	The Workarea toolbar icon hover-over properties. The following is an example of View Collections background being green when hovered over.

Class	Description
.ToolbarImage-nm	Sets the size of the Workarea toolbar icons. The following is an example of setting the height and width to 35px.
	View Contents of Folder "Content"
	Co 🔓 🎦 🤜 🦷 🖗 🗐 🔗
	The following example has the height and width set to default 22px.
	View Contents of Folder "Content"
.WorkareaToolbar-bk	The Workarea toolbar properties for the non-button section. The following is an example of a red background.
	r "Content"
.WorkareaTitlebar	a 🚧 🗐 😭 <mark> View:</mark> English (U.S.) 🛛 ✔
	The properties of the titlebar in the Workarea. The following example shows a red background with black letters.
	Smart Desktop for Application Administ

Class	Description
body.UiMain	The properties of the user interface area. The following example shows a green background with a red scrollbar.
	WORRARLA Monday, Februa
	Smart Desktop for Application Administ
	Content Awaiting Approval (0)
	Content Currently Checked Out (4)
	🗹 Tasks (0)
TD	The default fonts in the logo bar area, the toolbar area, the folder buttons, and user interface area. In the following example, the font is green.
	CMS400.net User: admin WORKAREA Monday, February 21, 2005
	the of Folder "Content" the soft of Folder "Content"
	Books Language ID Status Date Modified Last Editor
	er 1033 12 A (14-Jan-2005 01:14:21 PM Application, Administra)
	C Forms
	Man Lut di y
	kan settings ↓ ↓



Class	Description
TD.titlebar-error	Error display properties. The following example shows the error displayed with a red font and a silver background.
	Active Directory Setup
	4.79
	The specified domain either does not exist or could not be contacted [UBR R19]
TD.input-box-text	Properties of text that precedes a text box. The following example shows the text color purple.
	Add a New User to the System
	\blacksquare \leftarrow
	Username:
	First Name:
	Last Name:
	Password:
TD.title-header	The column head properties in the Workarea.
I R.title-header	I he following example shows the column head backgrounds in green.
	View Contents of Folder "Content"
	🕒 🕞 🗳 🏷 👘 🚱 🖻 🛤 🗐 📽 View: English (U.S.) 🛛 🗸
	Title Language ID Status Date Modified
	<u>Gris Developer</u> 1033 12 <u>A</u> 14-Jan-2005 01:14:21 PM

Class	Description
A.title-header	The font properties in the column heads. The following example shows the column heads with green fonts.
	View Contents of Folder "Content" Image: Image in the image in th
TD.info	Description information title properties. The following example shows information titles in purple.
	View Content "CMS Developer"
	Properties Content Summary Metadata Alias Comment Properties: Content Title: CMS Developer CMS Developer CMS Developer
	Content ID:12Content LanguageEnglish (U.S.)Status:Approved (Published)Last User To Edit:admin
	Last Edit Date: 14-Jan-2005 01:14:21 PM
TD.info-header	Information header label. The following is an example of the information header in green.
	View Content "CMS Developer" Image: CMS Developer
	Properties Content Summary Metadata Alias Comment Properties:
	Content ID: 12
	Content Language English (U.S.)

Class	Description
.moreinfo	Font used on the Smart Desktop in the Workarea. The following example shows the font in green.
	Smart Desktop for Application Administ
	Content Awaiting Approval (0)
	Content Currently Checked Out (3)
	✓ <u>Tasks</u> (0)
td.tab_actived	The active tab properties in the Workarea. The following example shows the active tab with a green font.
	View Content "CMS Developer" Image: Content in the second
td.tab_disabled	Defines the non-active tab properties in the Workarea. The following example shows the non-active tabs with a dark blue font and blue background
	View Content "CMS Developer"

Class	Description
td.tab_last	The properties of the space at the end of the tabs. The following example shows that space with a green background.
	ew: English (U.S.)
td.tab_spacer	The properties of the space between the tabs. The following example shows the spaces as green.
	View Content "CMS Developer" View Content "CMS Developer" P The T T T T T T T T T T T T T T T T T T
	Properties Content Summary Metadata Alias

History Classes

Class	Description
.history-list	This class is used for two attributes. The TD controls the active date or the version that is presently published. The Anchor class is for the other versions of the content block.

Login Classes

Class	Controls
.login	The background color of the login and logout screen.

Folder Control Classes

Class	Controls
.folder	The font attributes of the folder control. NOTE: The font size cannot be controlled by the style sheet. It is set by the browser.

Library Classes

Class	Controls
.library	The background color of the three panels in the library.

Calendar Classes

InternCalendarStyles.css

The InternCalendarStyles.css file is used to define the look of the pop-up calendar in Ektron CMS400.NET. This file's default location is site root folder workarea csslib.

Class	Controls							
.mup_nonMonthCell	The cells at the beginning or end of the month that do not con days. The following example shows these cells in green.							
		<< Feb March, 2006 <u>Apr >></u>						
		Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2	3	4
		5	6	7	8	9	10	11
		12	13	14	15	16	17	18
		19	20	21	22	23	24	25
		26	27	28	29	30	31	
		_ ≤	< 20()5 20	006 🛩	<u>200</u>	7 >>	2
			05	~ :	30 🔽	PM	*	
				Done	Car	ncel		
.mup_weekendCell	The weekend day cell. The following example shows the cell in green.							
	green.							
	green.		<u>Feb</u>	Mar	ch, 20	06	Apr >	>>
	green.	< Sun	Feb Mon	Mar Tue	ch, 20 Wed	06 <u>/</u> Thu	Apr >	>> Sat
	green.	< Sun	Feb Mon	Mar Tue	ch, 20 Wed	06 <u>/</u> Thu 2	Apr 2 Fri 3	>> Sat
	green.	Sun 5	Feb Mon 6	Mar Tue 7	ch, 20 Wed 1 8	06 / Thu 2 9	Apr > Fri 3 10	>> Sat 11
	green.	< Sun 5 12	Feb Mon 6 13	Mar Tue 7 14	ch, 20 Wed 1 8 15	06 / Thu 2 9 16	Apr 2 Fri 3 10 17	>> Sat 11 18
	green.	<	Feb Mon 6 13 20	Mar Tue 7 14 21	ch, 20 Wed 1 8 15 22	06 / Thu 2 9 16 23	Apr > Fri 3 10 17 24	>> Sat 4 11 18 25
	green.	 < Sun 5 12 19 26 	Feb Mon 6 13 20 27	Mar Tue 7 14 21 28	ch, 20 Wed 1 8 15 22 29	06 / Thu 2 9 16 23 30	Apr 2 Fri 3 10 17 24 31	Sat 4 11 18 25
	green.	<	Feb Mon 6 13 20 27 < 200	Mar Tue 7 14 21 28 5 20	ch, 200 Wed 1 8 15 22 29 006 ❤	06 / Thu 2 9 16 23 30 200	Apr >	Sat 4 11 18 25
	green.	Sun 5 12 19 26	Feb Mon 6 13 20 27 < 200	Mar Tue 7 14 21 28 05 20	ch, 200 Wed 1 8 15 22 29 006 ❤ 30 ❤	06 / Thu 2 9 16 23 30 200	Apr > Fri 3 10 17 24 31 7 >>	Sat 4 11 25 2

Class	Controls								
.mup_weekdayCell	The week in green.	The week day cell. The following example shows the week day in green.							
		<<	<u>Feb</u>	Mar	ch, 20	06	Apr :	<u> </u>	
		Sun	Mon	Tue	Wed	Thu	Fri	Sat	
					1	2	3	4	
		5	6	7	8	9	10	11	
		12	13	14	15	16	17	18	
		19	20	21	22	23	24	25	
		26	27	28	29	30 1	31		
		_ ≤	< 20(<u>)5</u> 20	006 🚩	200	7 >>	2	
			05	~ : [30 🗸	PM	*		
				Done	Car	ncel			
.mup_weekendDOWHeader	Weekend days in gre	day of v een.	veek he	eader.	The foll	owing	exam	ple sho	ows those
		<<	<u>Feb</u>	Mar	ch, 20	06	Apr :	<u>×</u>	
		Sun	Mon	Tue	Wed	Thu	Fri	Sat	
					1	2	3	4	
		5	6	7	8	9	10	11	
		12	13	14	15	16	17	18	
		19	20	21	22	23	24	25	
		26	21	20	29	30	31		
		_ ≤	< 200	<u>)5</u> 20	06 💌	200	7 >>	2	
			05	~ :	30 🗸	PM	*		
			l	Done	Car	ncel			

Class	Controls							
.mup_weekdayDOWHeader	Weekday day heade	Weekday day of week header. The following example show day header in green.						
		<< Feb March, 2006 <u>Apr >></u>						
		Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2	3	4
		5	6	7	8	9	10	11
		12	13	14	15	16	17	18
		19	20	21	22	23	24	25
		26	27	28	29	30	31	
		_ ≤	<u>< 20</u>	05 20	006 🗸	<u>200</u>	7 >>	2
			0 5	~ :	30 🗸	PM	*	
				Done	Ca	ncel		
.mup_yearFooter	The year s footer in g	selectio reen.	n cell. 1	Done	Car owing e	examp	le sho	ws the
.mup_yearFooter	The year s footer in g	selectio reen.	n cell. T Feb	Done The foll Mar	Car owing e ch, 20	examp	le sho Apr :	ws the
.mup_yearFooter	The year s footer in g	selectio reen.	n cell. T Feb Mon	Done The foll Mar Tue	Car owing e ch, 20 Wed	examp 06 Thu	le sho Apr : Fri	ws the
.mup_yearFooter	The year s footer in g	selectio reen.	n cell. T Feb Mon	Done The foll Mar Tue	Car owing e ch, 20 Wed 1	examp 06 Thu 2	le sho Apr 2 Fri 3	ws the
.mup_yearFooter	The year s footer in g	selectio reen.	n cell. T Feb Mon	Done The foll Mar Tue 7	Car owing e ch, 20 Wed 1 8	of Thu 2 9	Apr 2 Fri 3 10	ws the Sat 4 11
.mup_yearFooter	The year s footer in g	selectio reen.	n cell. 7 Feb Mon 6 13	Done The foll Mar Tue 7 14	Car owing o ch, 20 Wed 1 8 15	of Thu 2 9 16	Apr 3 Fri 3 10 17	ws the
.mup_yearFooter	The year s footer in g	selectio reen.	n cell. T Feb Mon 6 13 20	Done The foll Mar Tue 7 14 21	Car owing o ch, 20 Wed 1 8 15 22	06 Thu 2 9 16 23	Apr 2 Fri 3 10 17 24	>> Sat 11 18 25
.mup_yearFooter	The year s footer in g	selectio reen.	n cell. 7 Feb Mon 6 13 20 27	Done The foll Mar Tue 7 14 21 28	Car owing e ch, 20 Wed 1 8 15 22 29	Thu 2 9 16 23 30	e sho Apr 2 Fri 3 10 17 24 31	>> Sat 11 18 25
.mup_yearFooter	The year s footer in g	selectio reen.	Feb Mon 6 13 20 27	Done The foll Mar Tue 7 14 21 28 35 20	Car owing a ch, 20 Wed 1 8 15 22 29 006 ¥	Image: constraint of the second se	e sho Apr : Fri 3 10 17 24 31 7 >>	>> Sat 11 18 25
.mup_yearFooter	The year s footer in g	selectio reen.	Feb Mon 6 13 20 27 <	Done The foll Mar Tue 7 14 21 28 05 20 ✓ : [Car owing e ch, 20 Wed 1 8 15 22 29 006 ¥	ncel examp 06 Thu 2 9 16 23 30 200 PM	le sho Apr : Fri 3 10 17 24 31 7 >> ✓	>> Sat 4 11 18 25

Class	Controls								
.mup_monthHeaderBorder	The borde that borde	The border around the month header. The following example show that border in green.							
		<<	Feb	Mar	ch, 20	06 /	Apr :	>>	
		Sun	Mon	Tue	Wed	Thu	Fri	Sat	
					1	2	3	4	
		5	6	7	8	9	10	11	
		12	13	14	15	16	17	18	
		19	20	21	22	23	24	25	
		26	27	28	29	30	31		
		≤	< 20()5 20	006 🛩	<u>200</u>	7 >>	<u>.</u>	
			05	- : :	30 🛩	PM	*		
			[Done	Car	ncel			
.mup_monthHeader	I he month green.	h heade	r. The f	ollowir	ig exan	nple sh	ows t	hat hea	ader in
		<<	: Feb	Mar	ch, 20	06	Apr :	>>	
		Sun	Mon	Tue	Wed	Thu	Fri	Sat	
					1	2	3	4	
		5	6	7	1 8	2 9	3 10	4	
		5 12	6 13	7	1 8 15	2 9 16	3 10 17	4 11 18	
		5 12 19	6 13 20	7 14 21	1 8 15 22	2 9 16 23	3 10 17 24	4 11 18 25	
		5 12 19 26	6 13 20 27	7 14 21 28	1 8 15 22 29	2 9 16 23 30	3 10 17 24 31	4 11 18 25	
		5 12 19 26	6 13 20 27 :< 20	7 14 21 28 05 20	1 8 15 22 29 006 ✓	2 9 16 23 30 200	3 10 17 24 31 7 >>	4 11 18 25 ▶	
		5 12 19 26	6 13 20 27 :< 20 05	7 14 21 28 05 20	1 8 15 22 29 006 ~ 30 ~	2 9 16 23 30 200 PM	3 10 17 24 31 7>>	4 11 18 25	

Class	Controls								
.mup_monthHeaderPrev	The previous button on the month header. The following example shows that background in green.					example			
		<	Feb	Mar	ch, 20	06	Apr :	Ň	
		Sun	Mon	Tue	Wed	Thu	Fri	Sat	
					1	2	3	4	
		5	6	7	8	9	10	11	
		12	13	14	15	16	17	18	
		19	20	21	22	23	24	25	
		26	27	28	29	30	31		
		_≤	< 200	<u>)5</u> 20	006 🔽	<u>200</u>	7 >>	2	
		05 🗸 : 30 🗸 PM 🗸							
			[Done	Car	ncel			
.mup_monthHeaderNext	The next b that heade	outton o er backg	n the m ground	onth h in gree	eader.⊺ n.	The fol	lowing	g exam	ple shows
		<<	<u>Feb</u>	Mar	rch, 20	06	Apr :	>>	
		Sun	Mon	Tue	Wed	Thu	Fri	Sat	
					1	2	3	4	
		5	6	7	8	9	10	11	
		12	13	14	15	16	17	18	
		19	20	21	22	23	24	25	
		26	27	28	29	30	31		
		≤	< 200	205	006 🗸	200	7 >>	2	
			05	~ : [30 💌	PM	*		
			I	Done	Car	ncel			

Class	Controls								
.mup_selectedDate	The select backgrour	ed date	e. The fo I.	ollowin	g exam	ple sh	ows tł	nat date	;
		<<	<u>Feb</u>	Mar	ch, 20	06	Apr :	>>	
		Sun	Mon	Tue	Wed	Thu	Fri	Sat	
					1	2	3	4	
		5	6	7	8	9	10	11	
		12	13	14	15	16	17	18	
		19	20	21	22	23	24	25	
		26	27	28	29	30	31		
		<< 2005 2006 Y 2007 >>							
			05	- : [30 🗸	PM	~		
			[Done	Car	ncel			
	T 1 : 1								
.mup_noShow	This class	should	not be	change	ed.				

NOTE Calendars that appear on a Web page use the CalendarStyles.css style sheet, which is installed by default to the \site root\Workarea\csslib directory. This style sheet is described in the Developer Manual section "Introduction to Server Controls" > "Calendar Server Control" > "Calendar Style Sheet".

EktTabs.css

The EktTabs.css file is used to define the tabs used in the Multimedia section of the Workarea. This file's default location is \smallsetminus

\siteroot\Workarea\csslib.

Class	Controls
.EktTabPanelActive	The panel area in which the multimedia player is loaded. The following example shows that background in red. View Content
	windowsmedia quicktime
.EktTabPanelNotActive	The non-activated panel area where the multimedia player is loaded.
.EktTabActive	The active media player selector tab. The following example shows the active tab in red. View Content Properties Content Summary Metadata Comment Tasks windowsmedia quicktime

Class	Controls
.EktTabNotActive	The non-active media player selector tab. The following example shows the non- active tabs in red.
	View Content
	🖙 🔁 🗊 📑 🕾 🕵 🍓 💁 🛍 🗲 View: English (U.S.) 🗠 Add: -se
	Properties Content Summary Metadata Comment Tasks
	windowsmedia quicktime

worksearch.css

This file is located in *webroot/siteroot/Workarea/csslib*. It is used to customize the look of the Workarea search results.

Workarea Styles.css

The styles.css file is located in *webroot/siteroot/Workarea*. It is a general style sheet provided for creating a new Web application project.

com.ektron.rules.wizard.css

This file is located in webroot/siteroot/Workarea/businessrules/css. It is used to customize the look of the Business Rules module in the Workarea.

com.ektron.utils.wizard.css

This file is located in webroot/siteroot/Workarea/businessrules/css. It is used to customize the look of the View Business Rule pop-up screen in the Workarea.

Ektron Explorer

The following files are used to customize the look of the Ektron Explorer. These files are located in webroot/siteroot/Workarea/ explorer/css.

- com.ektron.ui.contextmenu.css
- com.ektron.ui.explorer.css
- com.ektron.ui.folderbrowser.css
- com.ektron.ui.iconlist.css
- com.ektron.ui.local.css
- com.ektron.ui.logutil.css
- com.ektron.ui.menu.css
- com.ektron.ui.radiobox.css
- com.ektron.ui.search.css
- com.ektron.ui.tabdialog.css
- com.ektron.ui.tabs.css
- com.ektron.ui.tree.css

ektnormal.css

This file is located in webroot/siteroot/Workarea/ewebeditpro. It is used to customize the xml editor. The style sheet must be assigned to the folder containing the content.

ektdata.css

This file is located in webroot/siteroot/Workarea/ewebeditpro. It is
used to customize the Workarea's Data Designer. The style sheet
must be assigned to the folder containing the content.

Images

Application Images

To change the look **Ektron CMS400.NET** via a logo, you must change two images.

 Workarea_logo.gif - the logo of the application. It presently displays the Ektron CMS400.NET logo. It lives under \Workarea\images\application directory.

By changing this image, the application can be branded to display any other graphic or logo. You must use the same size attributes of 155 pixels wide by 77 pixels high. Alternate size attributes will cause the application to look wrong.

• **navigation_edit.gif**. This also resides in the application folder. This image is used for the left bar in the edit content, edit metadata, edit summary, and add content Workareas. This image can also be changed but must retain the same size attributes of 128 pixels wide by 500 pixels high.

A third image, **Workarea_back.gif**, makes up the blue/gray background at the top of the Workarea. The size attributes are 50 pixels wide by 77 pixels high. This image cannot be less than 50 pixels wide as Netscape and Firefox do not repeat it correctly.

Language Images

Several language specific Images are used at the top of the Workarea. They reside in the language folders and always start with the word "Workarea" and end with "_top."

These images are 467 pixels wide by 77 pixels high. Their width can change but the height cannot.

There are approximately six images in each language folder. an Adobe Photoshop file, Workarea_top.psd, can be found under \Workarea\images\English folder. You can modify these images as needed.

Converting CMS300 to Ektron CMS400.NET

Many customers who purchase **Ektron CMS400.NET** are upgrading from Ektron CMS300. Converting Ektron CMS300 to **Ektron CMS400.NET** is explained in the following sections:

- "Step 1: Back Up Your Site and Database" on page 194
- "Step 2: Install New Ektron CMS400.NET" on page 195
- "Step 3: Migrate Your CMS300 Database For Use with Ektron CMS400.NET" on page 196
- "Step 4: Copy Folders and Files" on page 198
- "Step 5: Set Folder Permissions" on page 199
- "Step 6: Update Files" on page 200
- "Step 7: Create an IIS Application For Your Site" on page 203
- "Step 8: Make dmdata an IIS Application" on page 206
- "Step 9: Add Ektron CMS400.NET License Keys" on page 206
- "Step 10: Verify Installation" on page 207

NOTE For more information on upgrading your site to **Ektron CMS400.NET**, see "Migrating Your Site to Ektron CMS400.NET" on page 208.

Step 1: Back Up Your Site and Database

Before starting any migration or upgrade process, you should always back up your site and database.

Best Practices

Ektron recommends running the migration procedure on a separate copy of the production database or in a staging/development environment.

WARNING! This is a very important step! It should not be skipped! If you do not back up your database and convert to Ektron CMS400.NET, you will not have a way to go back to using your database in CMS300 if there is a problem. Also, there are file changes that need to be made. If you do not back up your site, you will have to undo each change manually.

Backing Up Your Site

You can back up your site files as you would any other group of files. You can copy them to a different location or use software to back them up to a tape drive or CD.

Backing Up Your Database

The steps for performing a backup on a Microsoft SQL database are explained in "Backing Up Databases" on page 38. If you have another type of database, such as mySQL, Oracle or Access, you can use the backup procedures provided with the software.

Step 2: Install New Ektron CMS400.NET

Install the latest version of **Ektron CMS400.NET** with platform support. This procedure is explained in "Installing Ektron CMS400.NET" on page 69.

As explained in "Performing the Installation" on page 72, the installation involves copying files to your server then setting up a starter site. While setting up the site, follow these instructions.

- When asked to insert your license keys, ignore the screen. (You will insert your license keys in "Step 9: Add Ektron CMS400.NET License Keys" on page 206.)
- When asked to choose a site type, select Minimal.

CM5400 Site Setup - InstallShield Wizard	×
Setup Type Select the setup type that best suits your needs.	
Please select which type of site you would like to setup. CMS400 Examples Site (Minimal (best for site integration))	
InstallShield <u>Back Nex</u>	t> Cancel

• Say no to the database install. You will upgrade the CMS300 database for use with CMS400.

Step 3: Migrate Your CMS300 Database For Use with Ektron CMS400.NET

NOTE

Ektron CMS400.NET requires a physical installation of the product. If you do not have physical access to the machine, someone with access to the machine must run the install. For more information, see "Installing Ektron CMS400.NET" on page 69.

Your database must satisfy the following criteria before you can use it with Ektron CMS400.NET. It needs to

- be a Microsoft SQL database
- be the same CMS version
- have ASPNET or IIS_WPG (if you are using Microsoft Windows 2003) user access to your database if you are using a trusted connection

This should be done in the following order.

- 1. "Migrate Database to Microsoft SQL" on page 197.
- 2. "Upgrade Database to Ektron CMS400.NET" on page 198.
- "Adding Database Permission for ASPNET or IIS_WPG users" on page 198.

The following image shows the database migration path. This example uses CMS300 v4.2 going to the latest **Ektron CMS400.NET** version.



Migrate Database to Microsoft SQL

You must migrate your database in the same CMS it currently resides in. For example, if you are using CMS300 and have an Oracle database, you need to upgrade to Microsoft SQL in CMS300. You can migrate your database to Microsoft SQL from the following programs:

- Microsoft Access
- Oracle

MySQL

You can migrate your database to Microsoft SQL by using the Database Mover program. To do this, click **Start > Programs > Ektron > CMS300 > Utilities > Database Mover**.

Upgrade Database to Ektron CMS400.NET

Upgrade your Microsoft SQL database from Ektron CMS300 to Ektron CMS400.NET. If your Ektron CMS300 version number matches the Ektron CMS400.NET version number, you do not need to perform this step.

To upgrade, use the Database Upgrade program installed with Ektron CMS400.NET. To do this, click **Start > Programs > Ektron > CMS400 > Utilities > Database Upgrade**.

Adding Database Permission for ASPNET or IIS_WPG users

After upgrading the database to the latest version of **Ektron CMS400.NET**, you need to add permission for either the ASPNET or IIS_WPG users to the database. Use the ASPNET user if you are using a Microsoft Windows 2000 or Windows XP Professional Server. Use the IIS_WPG user if you are using a Microsoft Windows 2003 Server.

Step 4: Copy Folders and Files

Copy the following folders and files to your CMS300 site webroot. For example, if you installed the CMS400min site and are using the CMS300Sample site as your site, copy the folders and files from the CMS400min site to C:\Inetpub\wwwroot\CMS300Sample.

- The C:\inetpub\wwwroot\cms400min\workarea folder, including all subfolders
- The C:\inetpub\wwwroot\cms400min\bin folder
- The C:\inetpub\wwwroot\cms400min\App_Code folder, including all subfolders
- The C:\Inetpub\wwwroot\CMS400min\AssetManagement folder, including all subfolders
- The C:\inetpub\wwwroot\cms400min\Assets folder

- C:\inetpub\wwwroot\cms400min\web.config
- C:\inetpub\wwwroot\cms400min\assetmanagement.config

Step 5: Set Folder Permissions

The following folders in the site root need to have either the ASPNET user or IIS_WPG user added with the appropriate permissions. The IIS_WPG user is for Microsoft Windows Server 2003 only. In addition, the dmdata folder needs the EKT_ASSET_USER added.

The table below contains Folder, User and Permission settings information.

Folder	User	Permission
uploaded images	ASPNET User or IIS_WPG (Windows Server 2003 only)	ReadWriteModify
uploadedfiles	ASPNET User or IIS_WPG (Windows Server 2003 only)	ReadWriteModify
dmdata	ASPNET User or IIS_WPG (Windows Server 2003 only)	 Read Write Delete sub folders and files
dmdata	EKT_ASSET_USER	• Write
Assets	ASPNET User or IIS_WPG (Windows Server 2003 only)	ReadWrite

Step 6: Update Files

The following files have information in them that need to be updated.

- "Web.config" on page 200 Everyone needs to update this file.
- "AssetManagement.config" on page 201 Everyone needs to update this file.
- "site_scripts_path.asp" on page 201 need updating if you are using ASP pages.
- "applicationAPI.asp" on page 201 need updating if you are using ASP pages.
- "site_scripts_path.php" on page 202 need updating if you are using PHP pages.
- "applicationAPI.php" on page 202 need updating if you are using PHP pages.
- "PHP Templates" on page 202 need updating if you are using PHP pages.
- "Application.cfm" on page 203 needs to be completed if you are using ColdFusion pages.

Web.config

The settings in the web.config file equate to the settings in the CMS300 setup.xxx files. Update the following Web.config file settings to reflect your current database, site location, and WSpath.

Setting	How to Change
ConnectionString	ek_dbcatalog, ek_dbusername and ek_dbpassword are no longer used. Update the information between the <connectionstring> tags to point to your:</connectionstring>
	• server
	database
	• user
	• pwd

Setting	How to Change
ek_sitepath	Change the site path to your site's webroot. For example: /CMS300Sample/
WSpath	Change the web service path. For example: http://localhost/CMS400min/Workarea/ ServerControlWS.asmx
	Becomes http://localhost/CMS300sample/Workarea/ ServerControlWS.asmx

AssetManagement.config

The domain needs to be changed from localhost to your domain. For example:

DomainName="localhost"

becomes

DomainName="www.example.com"

site_scripts_path.asp

Update the path to the applicationAPI.asp file. For example:

<!-- #include virtual="/cms300sample/cms300scripts/applicationAPI.asp" -->

becomes

```
<!-- #include virtual="/cms300sample/Workarea/platforms/asp/
applicationAPI.asp" -->
```

applicationAPI.asp

Update the WSDLpath to new location of your Web services file. Update the CMS400 Workarea to the new location of the Workarea folder. For example:

WSDLpath = "http://localhost/siteroot/WorkArea/WebServices/ContentWS.asmx"

becomes

WSDLpath = "http://www.example.com/WorkArea/WebServices/ContentWS.asmx"

and

CMS400WorkareaPath = "/siteroot/WorkArea/"

becomes

workareaPath = "/www.example.com/WorkArea/"

site_scripts_path.php

Update the path to the applicationAPI.php file. For example:

<?php include_once `cms300scripts\applicationAPI.php'; ?>

becomes

<?php #include_once `Workarea\platforms\asp\applicationAPI.php'; ?>

applicationAPI.php

Update the WSDLpath to new location of your Web services file. Update the CMS400 Workarea to the new location of the Workarea folder. For example:

\$WSDLpath = "http://localhost/siteroot/WorkArea/WebServices/ ContentWS.asmx?WSDL";

becomes

\$WSDLpath = "http://www.example.com/WorkArea/WebServices/ ContentWS.asmx?WSDL"

and

\$workareaPath = "/siteroot/WorkArea/";

becomes

\$workareaPath = "/www.example.com/WorkArea/";

PHP Templates

When upgrading your Ektron CMS300 to Ektron CMS400.NET, add the following line between the head tags for each template.
IMPORTANT! This only needs to be done if you are upgrading from CMS300 to CMS400.NET

<meta http-equiv="Content-type" content="text/html; charset=utf-8" />

Application.cfm

Copy the settings in the

\workarea\platforms\coldfusion\application.cfm file into the application.cfm file in the root of your site. These settings supersede and replace current CMS300 settings and includes.

Alter the application.wsdlpath and application.workarea values inside the application.cfm file to reflect the correct URL of your CMS site.

Step 7: Create an IIS Application For Your Site

Perform this only if your site is not in your server's webroot, or if your Web site is not already set up as an IIS application

Ektron CMS400.NET must be an IIS application to run properly.

To see if your Web site is running as an IIS application, go to your server's Computer Management Console and view the Internet Information Services section. Use the following table to determine if your Web site is running as an IIS application.

Microsoft Windows Version	Icon Next to Your Site Name In IIS	Web Site running as an IIS Application?
2003 Server	4	Yes
XP Professional	۲	Yes
Any		No

If an IIS application needs to be created for your Web site, follow these steps.

- 1. Click Start > Control Panel > Administrative Tools > Computer Management.
- In the left pane of the console, click Services and Applications > Internet Information Services > Web Sites > Default Web Site
- 3. Right click your Web site and select properties.
- 4. The following window appears.

.

CMS300Sample Prop	perties ?	×		
Directory Documents	Directory Security HTTP Headers Custom Errors			
When connecting to	this resource, the content should come from:			
(The <u>d</u> esignated directory			
	A share located on another computer			
(A redirection to a <u>U</u> RL			
Local Path:	\CMS300Sample			
Script source access ✓ Log visits ✓ Read ✓ Index this resource Write Directory browsing				
Application Settings				
Application name:	Default Application Create			
Starting point:	<default site="" web=""></default>			
Execute Permissions	Scripts only			
Application Protectio	n: Medium (Pooled)			
OK Cancel Apply Help				

5. Click the Create button

Application Settings		
Application name:	Default Application	Create
Starting point:	<default site="" web=""></default>	Configuration
Execute Permissions:	Scripts only	

6. Your site is now an IIS application

CMS300Sample Prop	erties		? 🔀
Directory Documents	Directory Security	HTTP Headers	Custom Errors
When connecting to	this resource, the co	ontent should com	e from:
	The <u>d</u> esignated dir	rectory	
C) A <u>s</u> hare located or	another compute	r
C) A redirection to a <u>l</u>	JRL	
Local Path:	\CMS300Sample		
Script source acce ✓ <u>R</u> ead <u>W</u> rite Directory <u>b</u> rowsing	ess	 ✓ Log visits ✓ Index this reso 	purce
Application Settings			
Application name:	CMS300Sample	e	Remove
Starting point:	<defa\cms3(< td=""><td>)0Sample</td><td>Configuration</td></defa\cms3(<>)0Sample	Configuration
Execute Permissions:	Scripts only		×
Application Protection	: Medium (Poole	d)	Unload
	ок	Cancel	Apply Help

7. Click **OK**.

Step 8: Make dmdata an IIS Application

- 1. Click Start > Control Panel > Administrative Tools > Computer Management.
- In the left pane of the console, click Services and Applications > Internet Information Services > Web Sites > Default Web Site > Asset Management > dmdata
- 3. Right click your Web site and select properties.
- 4. Make sure that **Read** and **Write** are checked.



- 5. Click the **Create** button.
- 6. Click the Directory Security tab.
- 7. In the **Anonymous access and authentication** field click the **Edit** button.
- 8. Uncheck Anonymous Access.
- 9. Uncheck Integrated Windows Authentication.
- 10. Check Basic Authentication.
- 11. Click OK.
- 12. On the **ASP.NET** tab select a 2.0 version of ASP.NET.
- 13. Click OK.

Step 9: Add Ektron CMS400.NET License Keys

You need to add your CMS400 license keys to the database. You can use the builtin account to accomplish this. The builtin account's username is **builtin** and password is **builtin**.

WARNING! You should only use the builtin account temporarily. As soon as possible, insert the license key and log in under a user name assigned in Ektron CMS400.NET.

Below are the steps for adding license keys to Ektron CMS400.NET.

- 1. Navigate to your Web site's Ektron CMS400.NET login page.
- 2. Click Login.
- 3. Use the username **builtin** and the password **builtin**.
- 4. Click Workarea.
- 5. Click **Settings** > **Configuration** > **Setup**.
- 6. Click the **Edit** button ().
- 7. Insert your license key and any module keys.
- 8. Click the **Update** button (\square).

Step 10: Verify Installation

When first attempting to use the platform support, you may get a timeout message as the Web services bridge is established for the first time. If this occurs, wait several seconds and then refresh the page or navigate to another page. Once the connection is established, you will notice a speed improvement over the old platform support in CMS300.

Migrating Your Site to Ektron CMS400.NET

This chapter explains how to migrate your Web site to Ektron CMS400.NET. This chapter explains

- What to copy to your Web site
- Setting up and deploying templates

This chapter assumes you installed Ektron CMS400.NET and have read the Ektron CMS400.NET Administrator Manual so that you have an understanding of basic concepts, some of which are mentioned here.

Initial Steps

The following section describes tasks you need to perform before migrating your Web site.

Installation

Ektron CMS400.NET requires a physical installation of the product. If you do not have physical access to the machine, someone with access to the machine must run the install.

For more information, see "Installing Ektron CMS400.NET" on page 69.

Verify Installation

After you install Ektron CMS400.NET, verify that it is properly installed by using the starter site. By default, the sample Web site is located at the following address on the machine to which Ektron CMS400.NET is installed.

http://localhost/siteroot/default.aspx

If you can browse the starter site and it works properly, **Ektron CMS400.NET** is properly installed.

Best Practices

Ektron recommends keeping a working version of the starter site. This can be used to help you debug problems.

For instance, if you encounter errors on your site, you can refer to the starter site to see if the same errors occur. If they do, that may indicate a problem with the installation. If they do not, the installation is probably OK and an external factor is causing the problem.

Setting up Your New Site

NOTE

You can use the Site Setup utility to perform these tasks. To launch this utility, go to **Start > Programs > Ektron > CMS400 > Utilities > Site Setup**. To read about it, go to "Setting up a Site" on page 78.

Copy Application Core Files

Copy the application core files from the *siteroot/workarea* folder into your site's folder. These files operate the workarea, library, and content functions.

Set up the Database

Since the content is stored in a database, you need to create one. To learn how to set up a database, see "Setting up a Database" on page 87.

Modify Application Parameters

After you install and create the Ektron CMS400.NET database, modify the web.config file that installed to the directory to which you installed **Ektron CMS400.NET**.

Edit that file and modify the following settings

Setting	Type in
ek_dbDatabase	The type of database you are using.

Setting	Type in
ek_dbUsername/ ek_dbPassword	The username and password, if your database requires one.
ek_sitePath	The relative path from Web root to the scripts folder.

Νοτε

If you are using SSL, the settings you need to modify are explained in "Configuring SSL" on page 161.

Creating a Login Page

Now that everything is set up, you can create a login page. You can either copy the one from the starter site or create your own.

A list of the content tags can be found in the Ektron CMS400.NET Developer's Reference Manual.

Log In

To log into your Ektron CMS400.NET Web site, follow these steps.

- 1. Browse to the login page you created and click the **Login** button.
- 2. A login dialog box opens asking for a username and password.
- 3. Enter the default username (**admin**) and password (**admin**) and click **Login**.
- 4. You are logged into Ektron CMS400.NET

NOTE If you get a message that the application is locked, log in using the username and password **builtin/builtin**. You get the message if your license key is invalid or has not been entered yet.

Modifying Configuration Settings

After you log in, access the Workarea by clicking on the Workarea button. From there, you can modify the configuration settings.

Set up Active Directory

If plan to use Active Directory, configure this now. The settings for Active Directory can be found in the **Settings > Configuration** folder. Refer to "Active Directory Integration" in the Administrator Manual.

Modify the Setup Screen

The Ektron CMS400.NET setup section is located under the **Settings > Configuration** folder. The setup section allows you to configure items such as your license key, style sheet support, max content size, and default language.

See 'Configuring Ektron CMS400" in the Administrator manual for more information.

Set up Metadata

Ektron CMS400.NET includes extensive metadata support. Settings for metadata definitions can be found under the **Settings > Configuration** folder in the Workarea. You can have as many metadata definitions as needed.

See "Metadata" in the Administrator manual for more information.

Set up Smart Forms

You can also set up your Smart Forms. You create XML files externally or via the Data Designer. Next, a Smart Form is assigned to content blocks and folders.

See "Managing XML" in the Ektron CMS400.NET Administrator Manual for additional information.

Creating Ektron CMS400.NET Users

If you are not using Active Directory support, add your users manually. The maximum number of users is determined by your license key. For instance, if you purchase a 10-user license, you can enter 10 users. **NOTE** If you exceed the licensed number of users, you may get locked out of Ektron CMS400.NET.

Every user must belong to a group. When you first add a user, he or she is automatically added to the Everyone group. You can create more user groups and add users to them as desired.

For more information, see "Managing Users & User Groups" in the Administrator manual.

Configuring Content and Forms Folders

Next, create folders to organize content blocks and forms. Create as many folders as you want. Each folder level can go as deep as you want.

Best Practices

Keep your folder structure simple so it's easy for your users to navigate. Organize folders in a way that makes sense to the users who will navigate through them. So, you may have 6 or so top level folders, and each folder may go 4 or so deep.

This folder structure is replicated under the Library folder.

As you create folders, you can assign a default template and style sheet. The default template is used when a new content block is created and Ektron CMS400.NET creates a Quicklink that points to the new content block. If you do not provide a default template, it is inherited from the parent folder.

After creating the folders, assign permissions and workflow to them. Permissions can be assigned to a user or a user group. The same is true for the approval process.

Best Practices

Limit permissions for the "Everyone" group, as this gives every user permissions to that content. Similarly, you should limit the "Everyone" group's inclusion in the approval chain if you want to restrict which users can publish content.

Creating your Templates

Now you can create your templates. Templates contain the look and feel of the site. Masthead, navigation, and footer graphics are all part of the template. Use server controls to insert **Ektron CMS400.NET** content into a template. A list of server controls is in the Developer's Manual.

Best Practices

Since dynamic templates include URL parameters, make each main landing page and other important pages static tags. This makes it easier for you to remember if you need to provide that link to someone.

For instance, each main landing page from your home page could use the static tag. Then, as you go deeper into that section, subsequent pages use a dynamic tag.

Migrating/Creating Content

At this point, you can begin to create/migrate your content. If you are migrating content from an existing site, add a new content block, and cut and paste the content into the Ektron CMS400.NET editor.

NOTE All images and files must be uploaded and inserted into the content separately.

Deployment

Deployment from development to production is as simple as moving the files over. To properly deploy your new Ektron CMS400.NET Web site, following these steps.

- 1. Copy all assets (templates, images, files, etc.) from your development box to your production machine.
- 2. Move the database. You have two choices
- point your data source on the production machine to the database you were using
- copy the database, move it to your production box, and point a data source to that

Advanced Features

The previous information allows you to create a basic Ektron CMS400.NET Web site from scratch. This section explains some advanced features that you may implement, although they are not needed for the Web site to function properly.

Email Notification

For email notification to work in Ektron CMS400.NET, make sure the SMTP service is setup and running in IIS, and that it points to a valid mail server.

Refer to "Configuring E-Mail Notification for Tasks and Content" on page 138 for additional information.

Other

Other items, such as Load Balancing, can be configured in Ektron CMS400.NET. Please see the special features section of the Administrator Manual for more information.

Macintosh Editor License

IMPORTANT!

For additional information on using the Apple Macintosh as a client, see the User Manual section "Macintosh Support for Ektron CMS400.NET Clients"

The Integrated Macintosh Editor License

When using a Macintosh, an additional separate license is needed for the Integrated Macintosh Editor (IME). This editor only works when using the Safari browser.

The first time you edit content on an Apple Macintosh, the Integrated Macintosh Editor is installed. With the installation, there is a thirty day trial license. After the trial license expires, you must purchase a full license.

The license for the IME is purchased through Ektron. Contact Ektron licensing for more information on purchasing a license.

IMPORTANT! If you see the following message, please contact Ektron licensing for a license key. Do *not* contact Ephox -- they cannot provide a license.

Ms400.net		Workard	ea	Wednesday, January
Edit Content in Folder	r "Content"			
🗞 🔓 🖬 🗙 🔇	ta feara leara kerta berta leara kerta berta leara kerta berta lear	i ka tu ka tu ka tu ka tu ka tu kat	i ka tu ka tu ka tu ka tu ka tu ka	a th beath learn learn learn beath learn learn learn learn
Title:			[English (U.S	5.)]
☑ Add to Quicklinks tab	ble 🗹 Content Searchable			
Content Summary	Metadata Schedule	Comment	Web Alerts	
Your 30 day trial period	d has expired. To purchas	e your licens	e go to: http://	/www.ephox.com

Adding the Integrated Macintosh Editor License to Ektron CMS400.NET

When you add the license for the Integrated Macintosh Editor (IME), you add it to the Ektron CMS400.NET server where your site is hosted. This might be a production or development server depending on your business model.

The following steps explain how to add the IME license to Ektron CMS400.NET.

- 1. Copy the **editlive.lic** file that you were sent when you requested a full license.
- 2. On the Ektron CMS400.NET server, navigate to the following location and paste the **editlive.lic** file.

C:\Inetpub\wwwroot\siteroot\Workarea\ewebeditpro\editlivejava

3. Click **Yes**, when the server asks if you want to overwrite the existing file.

Macintosh users should now be able to edit content using the IME in the Safari browser.

Appendix A: Creating a Web Site in IIS

NOTE

This text is adapted from Microsoft's IIS help.

Adding Web Sites to Your Server

IIS lets you create multiple Web sites on a single server. To create a new Web site, you must

- prepare the server and associated network services
- create a unique identity for the site

Preparing to Add a Web Site

Adding a Web site to a server requires careful preparation before running the Web Site Creation Wizard. Consider these recommendations.

- Review the methods of hosting multiple Web sites, and determine which one is appropriate for your environment.
- Multiple Web sites can use the same IP address. But if you decide to use a unique IP address for the new Web site, obtain a static IP address from your organization or ISP. Then, configure the server's TCP/IP settings.
- If you use a host header name to identify the new Web site, select a unique name. On a private network, the host header can be an intranet site name. But on the Internet, the host header must be a publicly available Domain Name System (DNS) name, such as support.microsoft.com. Register a public DNS name with an authorized Internet name authority.

- Update your name resolution system (typically DNS) with a new record that contains the new IP address and site name. For more information, see Domain Name Resolution in IIS help.
- Standard Internet services use TCP port 80 by default. It is not recommended to use any other port for HTTP services.

If you use a non-standard TCP port number to identify a new Web site for special situations (such as a private Web site for development/testing), select a TCP port number above 1023. In this way, the number does not conflict with well-known port numbers assigned by the Internet Assigned Numbers Authority.

• Use Windows Explorer to create a home directory for the content. Create subdirectories to store HTML pages, image files, and other content as needed.

To organize home directories for multiple Web sites on one server, create a top-level directory for all home directories, then subdirectories for each site.

You can create a home directory

- on the local server
- as a uniform naming convention (UNC) path on a network share
- as a URL that redirects clients to a different Web server

You can also create virtual directories that map to physical directories. For more information, see "Setting Home Directories" and "Using Virtual Directories" in IIS help.

• Determine whether to generate the Web site's identification number incrementally or from the Web site name. When you create a new site using IIS 6.0, a Web site identification number is randomly generated using the Web site name.

With IIS 5.1 and previous versions, site identification numbers were generated incrementally. For example, because the default Web site is created first, its Web site identification number is 1. The next site created is 2. For more information, see "DisableLazyContentPropagation in Global Registry Entries" in IIS help.

• Create a home page that clearly identifies the new site.

Adding a Web Site

IIS provides two methods for adding a new Web site.

- The Web Site Creation Wizard
- The iisweb.vbs command-line script

IMPORTANT! You must be a member of the Administrators group on the local computer to perform the following procedure (or procedures), or you must have been delegated the appropriate authority. As a security best practice, log on to your computer using an account that is not in the Administrators group, and then use the Run as command to run IIS Manager as an administrator. From the command prompt, type runas /user:administrative_accountname "mmc %systemroot%\system32\inetsrv\iis.msc".

Adding a Web site with the Web Site Creation Wizard

1. In IIS Manager, expand the local computer, right-click the Web Sites directory, point to **New**, and click **Web Site**.



2. Click Next.

Web Site Creation Wizard		×
Web Site Desciption Describe the Web site to help administrators ide	entify it.	
Type a description of the Web site. <u>D</u> escription:		
	< <u>B</u> ack <u>N</u> ext >	Cancel

3. In the **Description** box, enter the name of the Web site and click **Next**.

Web Site Creatio	n Wizard
IP Address and Specify IP ad	dress and port settings for the new Web site.
Enter the IP a	address to use for this Web site:
<u> Air Unassign</u>	
<u>T</u> CP port this 80	web site should use: (Default: 80)
Host Header	for this site: (Default: None)
SSL port this	web site should use: (Default: 443)
For more infor	mation, see the IIS Documentation.
	<u> </u>
	4. In the Enter the IP address to use for this Web site box, click All Unassigned to allow HTTP to respond to all unassigned IP addresses on the server, or click a specific IP address for the site.
Νοτε	In the Web Site Creation Wizard, All Unassigned refers to IP addresses assigned to a computer but not a specific site. The default Web site uses all IP addresses not assigned to other sites. Only one site can be set to use unassigned IP addresses for a given port number. For more information on how sites are identified, see Creating Multiple FTP Sites in IIS help.
	5. The TCP port is assigned to port 80 by default. To use a nonstandard port number to create a unique identity for a private Web site, use the TCP port this Web site should use box, and type a new port number above 1023.
	 In the Host Header for this Web site (Default:None) box, type a host header name to identify a Web site. If you are adding additional sites to a single IP address by using host

headers, you must assign a host header name containing the

full name of the site, for example, www.ektron.com.

7. If SSL encryption is enabled on the server, the **SSL port** box appears. Type the SSL port number, and then click **Next**.

Web Site Creation Wizard	×
Web Site Home Directory The home directory is the root of your Web content subdirectories.	
Enter the path to your home directory.	
Path:	Browse
Allow anonymous access to this Web site	
< <u>B</u> ack <u>N</u> ext >	Cancel

- 8. In the **Path** box, type or browse to the path of your Web site home directory.
- Web sites are configured for anonymous access by default. To create a secure or private Web site, clear the Allow anonymous access to this Web site check box, and click Next.

Web Site Creation Wizard	×
Web Site Access Permissions What access permissions do you want to set for the home directory?	Caller .
Allow the following:	
☑ Read	
Run <u>s</u> cripts (such as ASP)	
Execute (such as ISAPI applications or CGI)	
☐ <u>W</u> rite	
E Browse	
Click Next to complete the wizard.	
< <u>B</u> ack <u>N</u> ext >	Cancel

10. In the Web Site Access Permissions dialog box, select the permissions for the home directory. Click **Next**, and then click **Finish**.

To add a Web site with the iisweb.vbs command-line script

If the new Web site will be in a new directory, create the new directory. Follow these steps to do that.

- 1. From the Start menu, and click Run.
- 2. In the Open box, type cmd, and click OK.
- 3. From the command prompt, switch to the systemroot\system32 directory.
- 4. Type cscript iisweb.vbs /create Home DirectorySite Description" /i IP Address /b Port and click <Enter>.

For example, the following command creates a Web site called MyWebSite on port 80 at IP address 123.456.789 with

c:\inetpub\wwwroot\newdirectory as its home directory.

cscript iisweb.vbs /create c:\inetpub\wwwroot\newdirectory "MyWebSite" /i 123.456.789 /b 80

NOTE The iisweb.vbs script supports additional options for creating a Web site. To see them, search for iisweb.vbs in Windows Help.

Related Topics

The following IIS help topics provide additional information.

To change properties on existing Web or FTP sites, see "Changing Default Web Site Settings."

To add virtual directories, see "Using Virtual Directories."

To perform common tasks from command-line scripts, see "Using Command-Line Administration Scripts."

Additional Information

Supporting Documents

You can find more detailed information about Ektron CMS400.NET in the following documents:

- Ektron CMS400.NET Administrator Manual, Version 7.0
- Ektron CMS400.NET Developers Reference Manual, Version 7.0
- Ektron CMS400.NET User Manual, Version 7.0

Support

If you are experiencing trouble with any aspect of Ektron CMS400.NET, please contact the Ektron Support Team via our Web Site, or by e-mail:

support@ektron.com

http://www.ektron.com/support/index.aspx

Sales

For questions and answers about purchasing Ektron CMS400.NET from Ektron, contact the sales department by sending an e-mail to:

sales@ektron.com