
Rhythmyx

Getting Started with Rhythmyx

Version 6.5.2

Copyright and Licensing Statement

All intellectual property rights in the SOFTWARE and associated user documentation, implementation documentation, and reference documentation are owned by Percussion Software or its suppliers and are protected by United States and Canadian copyright laws, other applicable copyright laws, and international treaty provisions. Percussion Software retains all rights, title, and interest not expressly granted. You may either (a) make one (1) copy of the SOFTWARE solely for backup or archival purposes or (b) transfer the SOFTWARE to a single hard disk provided you keep the original solely for backup or archival purposes. You must reproduce and include the copyright notice on any copy made. You may not copy the user documentation accompanying the SOFTWARE.

The information in Rhythmyx documentation is subject to change without notice and does not represent a commitment on the part of Percussion Software, Inc. This document describes proprietary trade secrets of Percussion Software, Inc. Licensees of this document must acknowledge the proprietary claims of Percussion Software, Inc., in advance of receiving this document or any software to which it refers, and must agree to hold the trade secrets in confidence for the sole use of Percussion Software, Inc.

The software contains proprietary information of Percussion Software; it is provided under a license agreement containing restrictions on use and disclosure and is also protected by copyright law. Reverse engineering of the software is prohibited.

Due to continued product development this information may change without notice. The information and intellectual property contained herein is confidential between Percussion Software and the client and remains the exclusive property of Percussion Software. If you find any problems in the documentation, please report them to us in writing. Percussion Software does not warrant that this document is error-free.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of Percussion Software.

Copyright © 1999-2007 Percussion Software.
All rights reserved

Licenses and Source Code

Rhythmyx uses Mozilla's JavaScript C API. See <http://www.mozilla.org/source.html> (<http://www.mozilla.org/source.html>) for the source code. In addition, see the *Mozilla Public License* (<http://www.mozilla.org/source.html>).

Netscape Public License

Apache Software License

IBM Public License

Lesser GNU Public License

Other Copyrights

The Rhythmyx installation application was developed using InstallShield, which is a licensed and copyrighted by InstallShield Software Corporation.

The Sprinta JDBC driver is licensed and copyrighted by I-NET Software Corporation.

The Sentry Spellingchecker Engine Software Development Kit is licensed and copyrighted by Wintertree Software.

The Java™ 2 Runtime Environment is licensed and copyrighted by Sun Microsystems, Inc.

The Oracle JDBC driver is licensed and copyrighted by Oracle Corporation.

The Sybase JDBC driver is licensed and copyrighted by Sybase, Inc.

The AS/400 driver is licensed and copyrighted by International Business Machines Corporation.

The Ephox EditLive! for Java DHTML editor is licensed and copyrighted by Ephox, Inc.

This product includes software developed by CDS Networks, Inc.

The software contains proprietary information of Percussion Software; it is provided under a license agreement containing restrictions on use and disclosure and is also protected by copyright law. Reverse engineering of the software is prohibited.

Due to continued product development this information may change without notice. The information and intellectual property contained herein is confidential between Percussion Software and the client and remains the exclusive property of Percussion Software. If you find any problems in the documentation, please report them to us in writing. Percussion Software does not warrant that this document is error-free.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording or otherwise without the prior written permission of Percussion Software.

AuthorIT™ is a trademark of Optical Systems Corporation Ltd.

Microsoft Word, Microsoft Office, Windows®, Window 95™, Window 98™, Windows NT® and MS-DOS™ are trademarks of the Microsoft Corporation.

This document was created using *AuthorIT™, Total Document Creation* (see AuthorIT Home - <http://www.author-it.com>).

Schema documentation was created using XMLSpy™.

Percussion Software

600 Unicorn Park Drive

Woburn, MA 01801 U.S.A.

781.438.9900

Internet E-Mail: technical_support@percussion.com

Website: <http://www.percussion.com>

Contents

Introducing Rhythmyx FastForward for Web Content Management	3
About FastForward for Web Content Management.....	4
Implementing FastForward.....	5
Installing Rhythmyx in a Development Environment	7
Preparing the Development Environment for Rhythmyx Installation.....	8
Server Side	8
Client Side	9
Rhythmyx Repository.....	9
Installing Rhythmyx	10
Installing Rhythmyx on Windows/SQL Server	10
Installing Rhythmyx on Solaris/Oracle	29
Starting the Rhythmyx Server.....	39
Introduction to Content Explorer	41
Logging in to Content Explorer	42
Content Tab	44
Publishing Tab.....	46
Workflow Tab	47
Publishing FastForward for WCM Sample Content	49
Running the FastForward for WCM Edition	50
Reviewing the Published Content.....	53
Publishing and Reviewing the Corporate Investments Site	57
A Brief Introduction to Rhythmyx	59
A Brief Introduction to Content Explorer.....	60
The Content Explorer Banner.....	61
The Navigation Pane	62
The Content Pane	63
The Menu Bar.....	63
Creating Content Items	65
Creating a Generic Page Content Item	65
Creating a Generic Word Content Item	68
Creating an Image Content Item.....	69
Working with Site Folders.....	72
Creating the Education Folder.....	72
Moving Content into the Education Folder	74
Adding Additional Content to the Education Folder	76
Active Assembly.....	77
Adding Links to Other Generic Pages in the Sidebar Slot.....	77

Adding an Image to a Generic Page	85
Previewing the Content Item	87
Workflow	89
Check In and Check Out.....	89
About Roles	89
Transitioning Content Items to a New State	89
About the Standard Workflow.....	91
Moving Content Items to Public.....	92
Maintaining Managed Navigation for the Education Folder	94
Creating a Landing Page for the Education Folder.....	94
Making the Education Navon Content Item Public	96
Publishing the Web Site with the Education Section.....	97
Successful Publisher Runs.....	97
Unsuccessful Publisher Runs.....	99

Troubleshooting **101**

Installation	102
Installer Cannot Connect to the Repository	102
Installer Hangs.....	103
Server Shuts Down During Initialization.....	103
Startup.....	104
Rhythmyx License Period Expired.....	104
Out-of-Memory Condition Displayed on Rhythmyx Startup	104
Publishing.....	104

Index **107**

CHAPTER 1

Introducing Rhythmyx FastForward for Web Content Management

The Rhythmyx Content Management System manages content through the automation of content creation, maintenance, and delivery, enhanced with features such as content reuse, delivery to multiple sites, intelligent relationships between content, and simple content assembly for business users.

One of Rhythmyx's key features is content reuse, which it achieves by separating content and formatting, enabling users to create a variety of outputs using the same data. Business users can assemble the same Content Items multiple times using different formats and include the Content Items in the output formats of other content. This enables Rhythmyx output pages to contain many Content Items assembled together.

Another key feature of Rhythmyx is its ability to publish content to multiple sites. Rhythmyx allows any number of applications to be used to present published content to consumers since the content delivery mechanism (a portal, Web server, or other application) is not connected or "coupled" to Rhythmyx. This "decoupled delivery" not only offers companies flexibility in choosing delivery applications, but also simplifies the process of delivering content to multiple media.

This document will help implementers get started with Rhythmyx by installing it with its "FastForward" sample components and Content Items, starting the Rhythmyx Server, and publishing sample content. For more details about content creation, reuse, and delivery, and conceptual information about content assembly and intelligent relationships, see the *Rhythmyx Concepts Guide*.

About FastForward for Web Content Management

Rhythmyx FastForward for Web Content Management (FFWCM) is reference implementation available with Rhythmyx. FastForward includes a set of pre-built components and applications that allow a company to quickly bring their Web site under management. These pre-built components include definitions for the types of content and outputs most commonly implemented by customers and elements for setting up typical publishing and authentication scenarios. This document includes instructions for installing and reviewing these components.

Implementing FastForward

Install, configure, and implement FastForward in a development environment and then test your features in a test environment. After development and testing is complete, migrate your Rhythmyx components to the production environment where your end users perform their work. This process ensures that end users only have access to completed, tested components and features.

Before reading this document, read the *Rhythmyx Concepts Guide* for a basic understanding of the concepts and operation of Rhythmyx. Then use this to guide you through the process of installing Rhythmyx with FastForward and testing that the installation was successful and that it is publishing content as expected. This document also includes a "guided tour" of Rhythmyx functionality.

After reading this document, use the following documents to guide you through the process of designing and implementing your Rhythmyx Content Management System.

- *Modelling and Design of a Rhythmyx Content Management System*
This document outlines the process of modeling your content and designing a CMS implementation to meet your needs.
- *Rhythmyx Implementation Guide*
This document explains the common tasks of implementing a Rhythmyx CMS by illustrating the implementation of selected elements of FastForward.
- *Setting up the Rhythmyx Production Environment*
This document explains how to set up the production environment and deploy your implementation from your development environment to that production environment.

CHAPTER 2

Installing Rhythmyx in a Development Environment

In the recommended Rhythmyx environment, implementers create new Rhythmyx elements and features on a development server, perform user testing on a testing server, and install tested, new functionality to a production server. In technical terms, this is called a multi-tiered environment, and each Server level represents a tier.

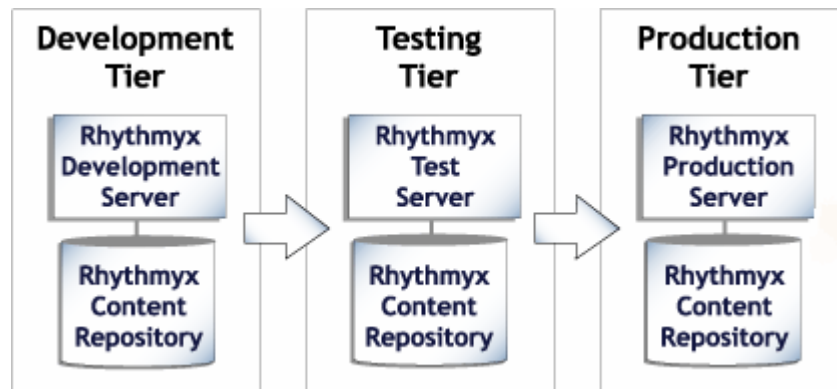


Figure 1: A multi-tiered environment includes development, testing and production tiers.

It is important to implement FastForward on a separate development tier and integrate and test completed development work on a testing tier. On the development tier, configure Site structures and develop Rhythmyx applications and elements. On the testing tier, integrate all development work and determine if it functions as expected. Since features in development and testing states tend to be incomplete and unstable, they should never be accessible on the production tier, where users are creating and publishing actual content. Once testing is complete, move new components to the production tier.

A Web Server must be installed on each tier to test or perform publishing. Implementers should successfully publish the sample content on the development tier before configuration is deployed to an integrated testing tier and then a production tier.

Preparing the Development Environment for Rhythmyx Installation

In order to install Rhythmyx with FastForward, your development tier must meet the following requirements:

Server Side

The Rhythmyx Server must be installed on one of the following supported Operating Systems. The size requirements for both the development and production tiers are noted:

- Sun Solaris 7, 8, 9

Development	Production
UltraSPARC 10 or higher	V120 or Higher recommended
RAM - 512 MB	RAM – 2 GB
Disk Space - 700 MB	Disk Space – 700 MB

- Microsoft Windows 2000 (Professional, Server, Advanced Server and Datacenter Server), Windows 2003 Server platform.

Development	Production
Processor - 1 Ghz+	Processor - 2 Ghz+
RAM - 512 MB+	RAM – 1+ GB
Disk Space - 700 MB	Disk Space – 700 MB

- Linux (Certified on Red Hat Linux AS 3.0+; Other distributions supported; Linux OS certified on Intel-based hardware.)

Development	Production
Processor - 1 Ghz	Processor - 2 Ghz
RAM - 512 MB	RAM - 1+ GB
Disk Space - 700 MB	Disk Space - 700 MB

Client Side

One of the following browsers must be installed to support content contribution, Workflow, and Publishing:

- Internet Explorer V6.0+
- Firefox 1.0 and 1.5
- Safari 1.02

In order to use the Rhythmyx Connector for Word, your system must have one of the following versions of Microsoft Office Client installed:

- Word 2000, 2002/XP or higher
- Functionality limited in Word 97

The supported version of Java JRE is 1.5.0_08.

In order for implementers to use the Rhythmyx Workbench, one of the following supported environments must be installed:

- Windows XP
- Windows 2000

The following hardware is required to use the Workbench:

- Processor - P4 1.0 GHz or higher recommended
- RAM - MIN 1 GB recommended
- Disk Space - MIN 350 MB to run installed product (1 GB during install)

Rhythmyx supports the following versions and working drafts of standard Web technologies:

- XML V1.0
- XSLT V1.0
- HTML V4.0+
- XHTML V1.0
- Velocity V1.4

Rhythmyx Repository

Rhythmyx stores its data in an external relational database. Your system must include one of the supported Databases:

Oracle 9.2i

Oracle 10g

MS SQL Server 2000

MS SQL Server 2005

DB2 UDB 8.02

Installing Rhythmyx

Rhythmyx provides Installers for Windows and Unix. The following section demonstrates the sequence for installing Rhythmyx with FastForward for Windows using an MS SQL database; however, you may install with any of the supported databases. You must install your database prior to completing the installation steps in this section.

Use the defaults specified in the installation sequence. To set up your system to use the defaults:

- In your repository, define a new schema or database named RXMASTER. During installation, you will specify RXMASTER as Rhythmyx's backend database.
- If you are currently using port 9992 free it. Port 9992 is the default Rhythmyx Server port.

You must enter your license number and installation code to install Rhythmyx. They are located on the back of your CD jacket.

Installing Rhythmyx on Windows/SQL Server

To install Rhythmyx with FastForward for Windows:

- 1 Insert your installation CD. In the Startup folder, double-click on setup.exe, the setup program for Windows.

After a few seconds, the Installer displays a splash screen and then opens the Welcome screen:

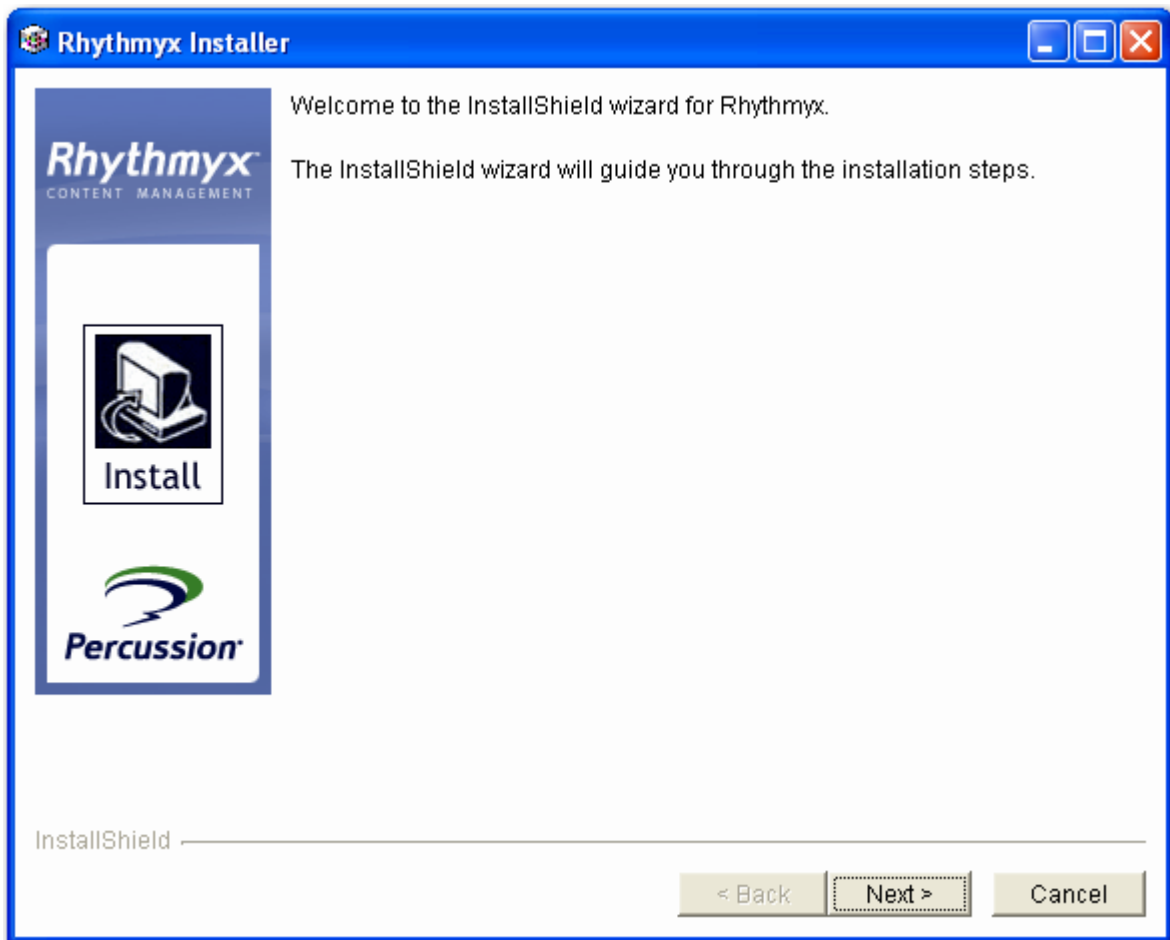


Figure 2: Welcome screen

- 2 Click [Next].

The installation wizard displays the license agreement dialog.

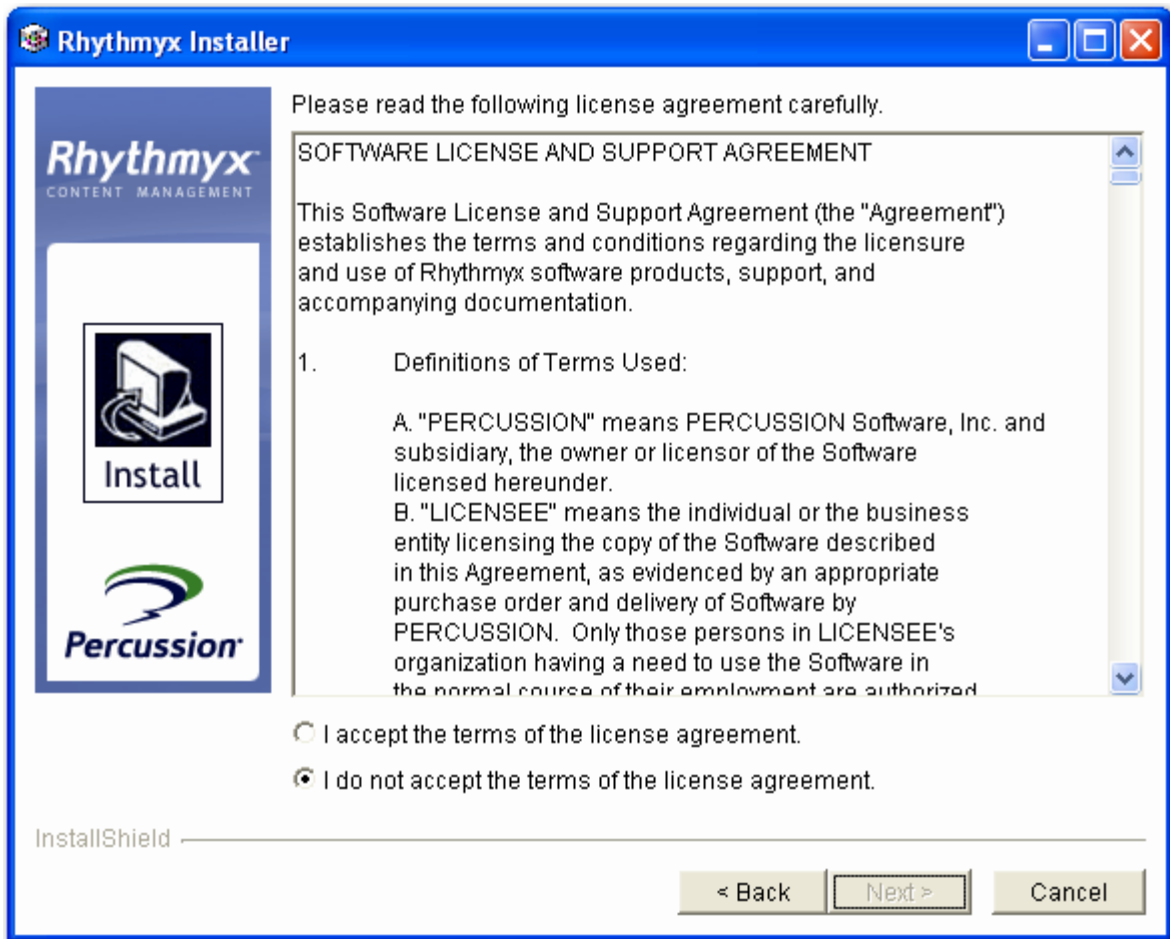


Figure 3: License agreement

- 3 Click the I accept the terms of the license agreement radio button and click the [Next >>] button.

The installation wizard displays the Choose Installation Type dialog.

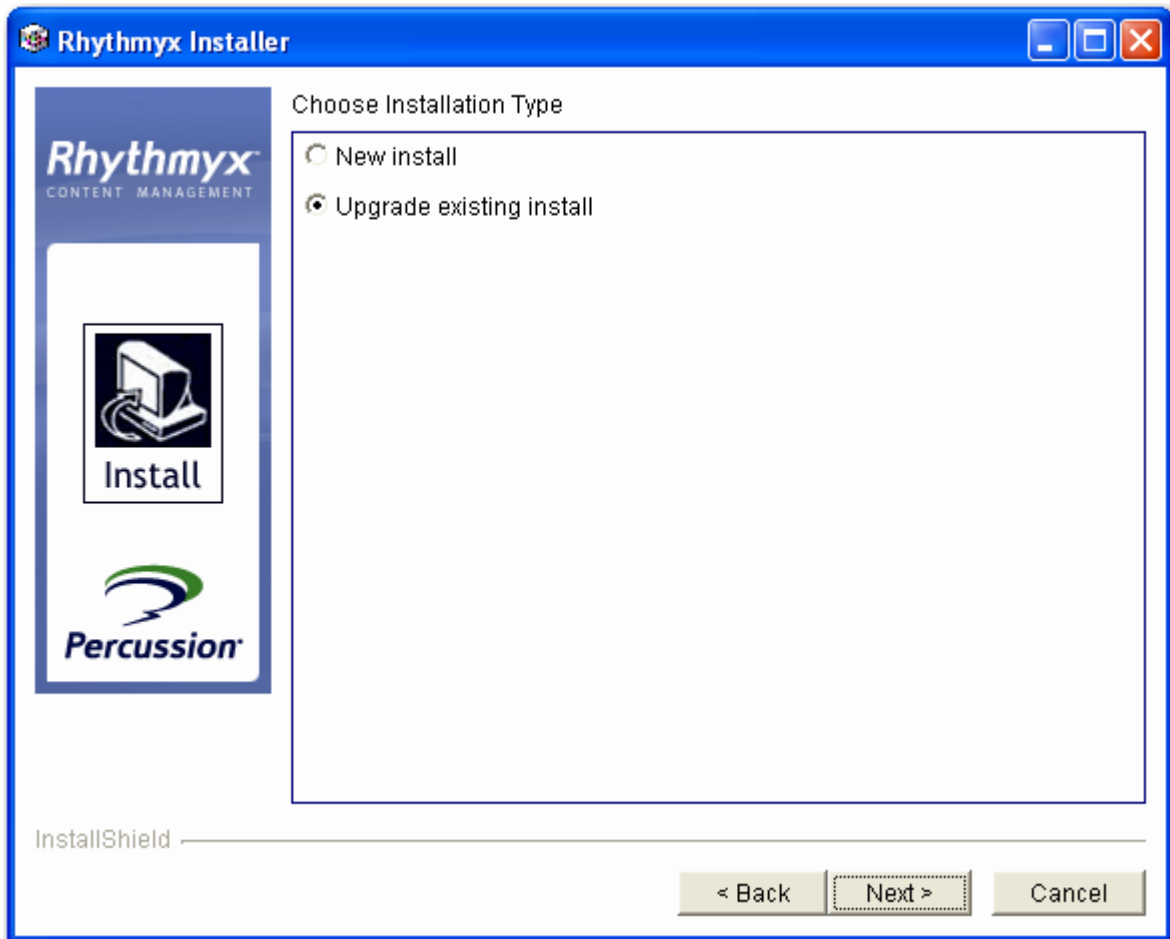


Figure 4: Installation Type dialog

- 4 Choose *New Install* and click [Next].

The installation wizard displays the Installation Directory dialog.

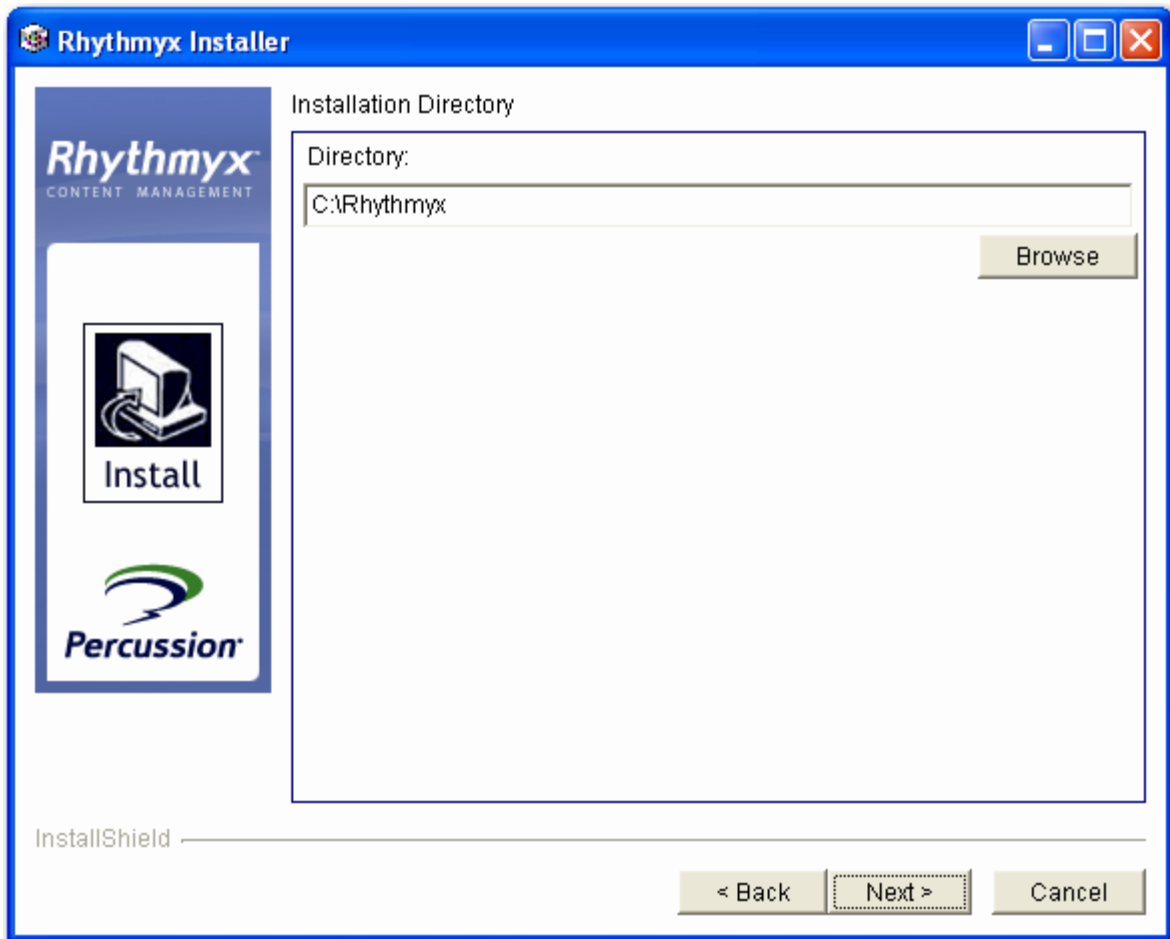


Figure 5: Installation Directory screen

- 5 The Directory field defaults to `C:\Rhythmyx`. If you want to install to a different directory, you can enter it in the Directory field, or click the **[Browse]** button and browse to the location where you want to install Rhythmyx. Once you have defined the directory where you want to install, click the **[Next >>]** button.

If the directory does not already exist, the installation wizard will ask if you want to create the directory. Click the **[Yes]** button to create the directory.

- 6 Click the **[Next >>]** button.

The installation wizard displays the Select the products you would like to install dialog.

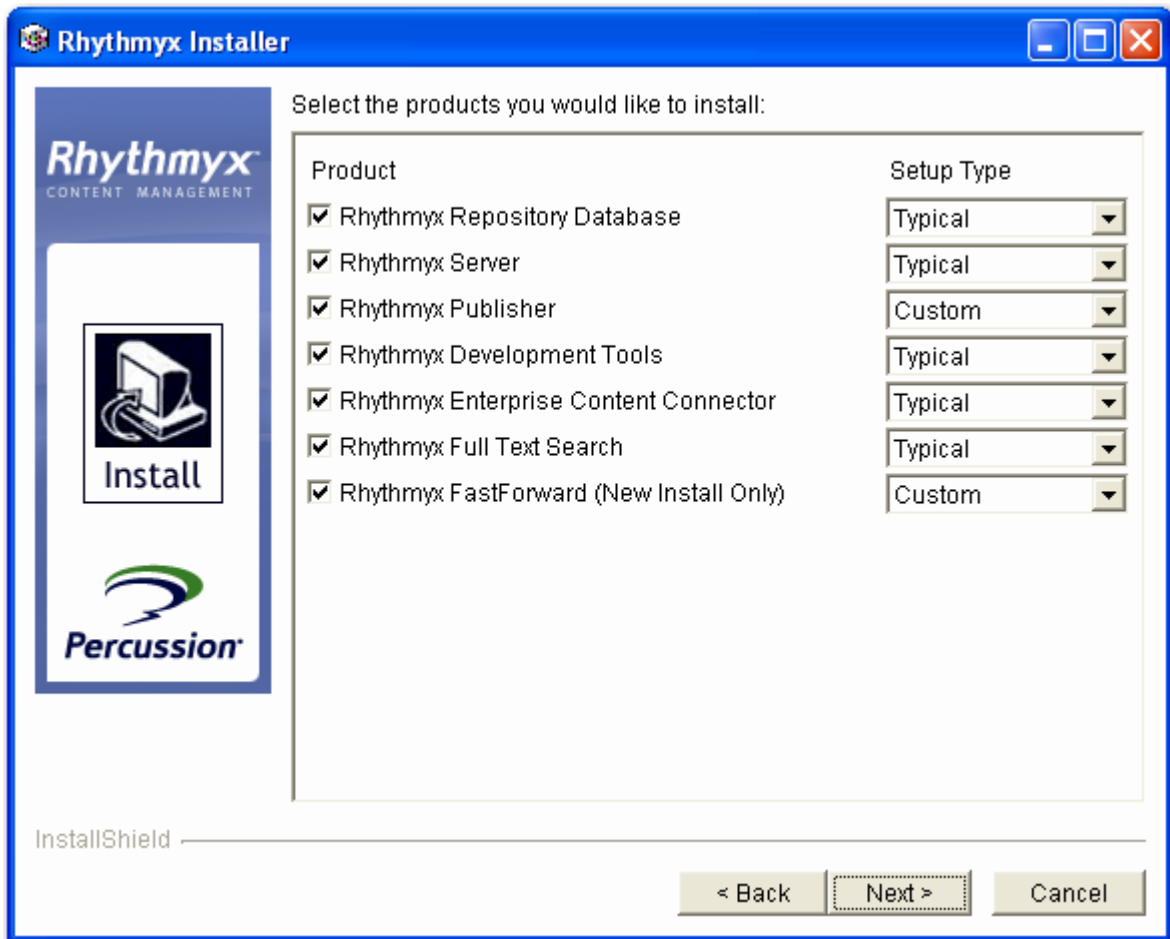


Figure 6: Select the products you would like to install dialog

- 7 Uncheck *Rhythmyx Enterprise Content Connector* and *Rhythmyx Full Text Search*. Leave the other components checked to fully implement FastForward. Click [Next].

The installation wizard displays the Select Publisher Features dialog.

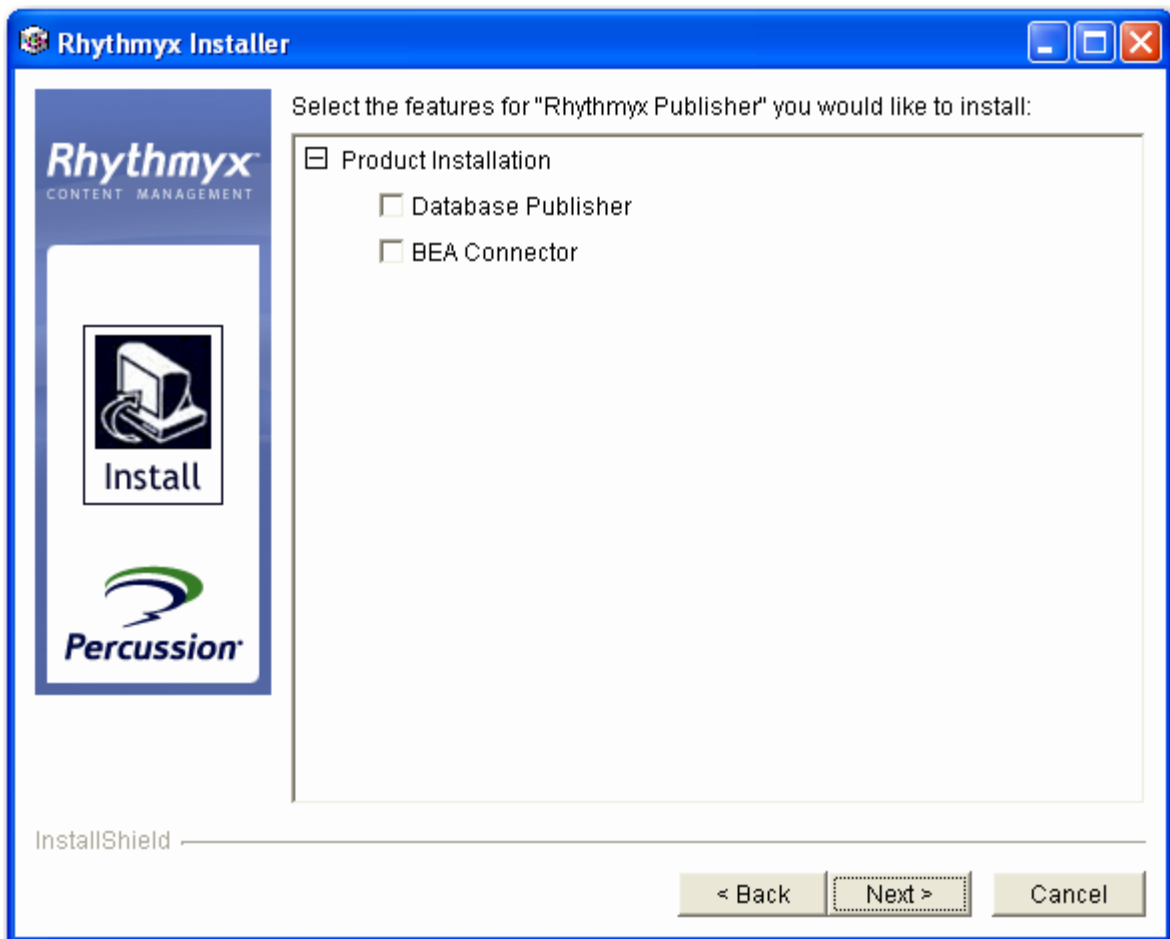


Figure 7: Select Publisher Features dialog

- 8 Leave all boxes on this dialog unchecked. Click the [**N**ext >>] button.

The install wizard displays the FastForward features dialog.

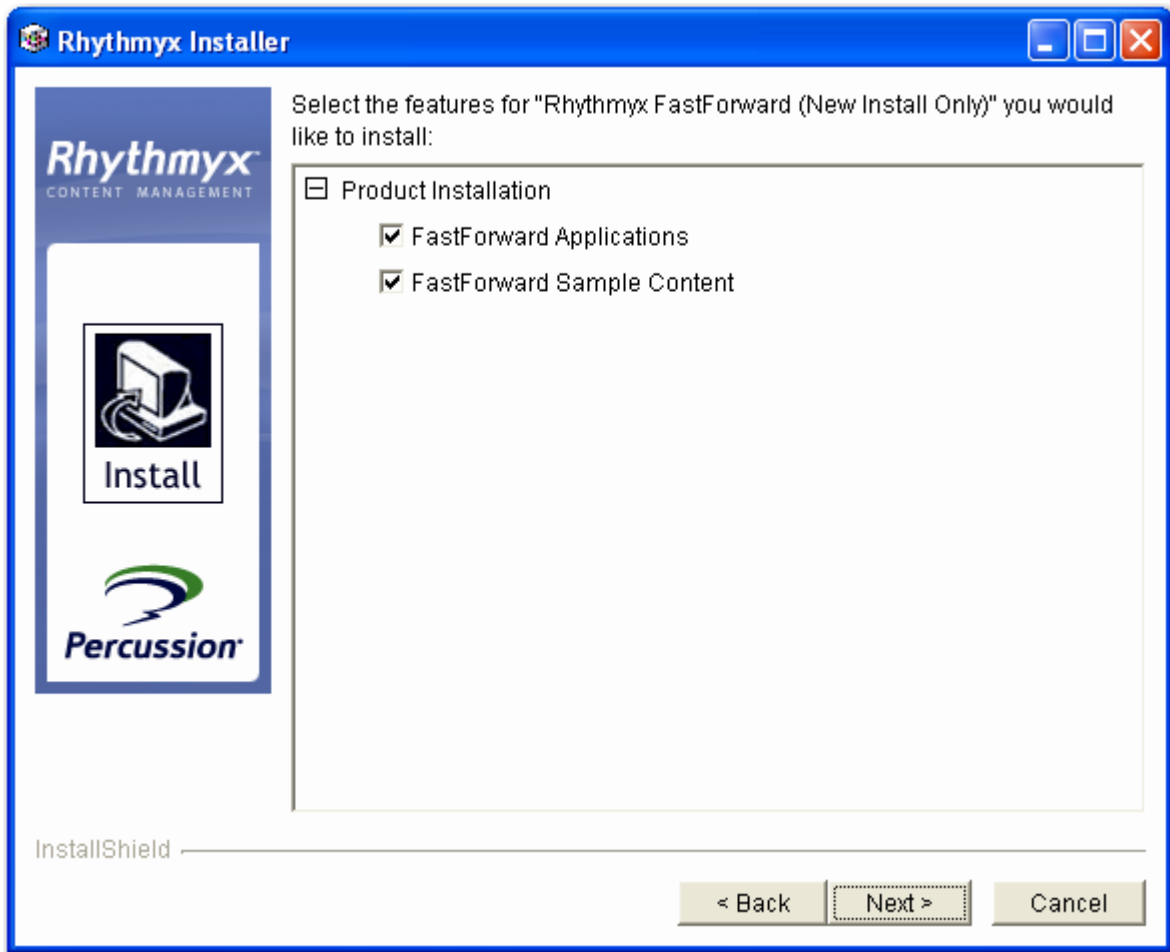


Figure 8: FastForward Features Selection screen

- 9 Check both *FastForward Applications* and *FastForward Sample Content*. (NOTE: These boxes are checked by default) Click [Next].

The install wizard displays the Rhythmyx Server Type dialog.

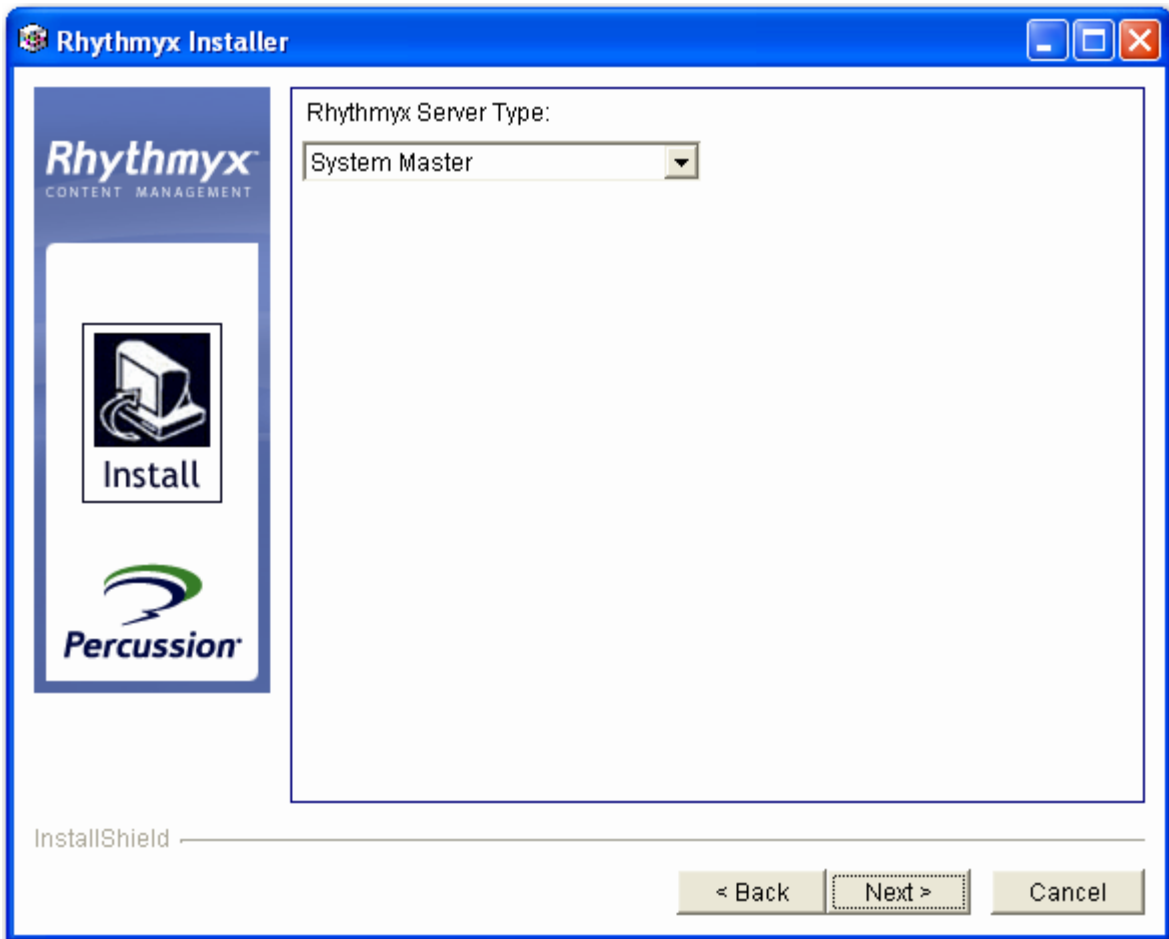


Figure 9: Select Server Type dialog

- 10 Leave *System Master* as the Rhythmyx Server Type. The other option (*Publishing Hub*) is not a valid development environment. Click the [Next >>] button.

The install wizard displays the Installation Information dialog

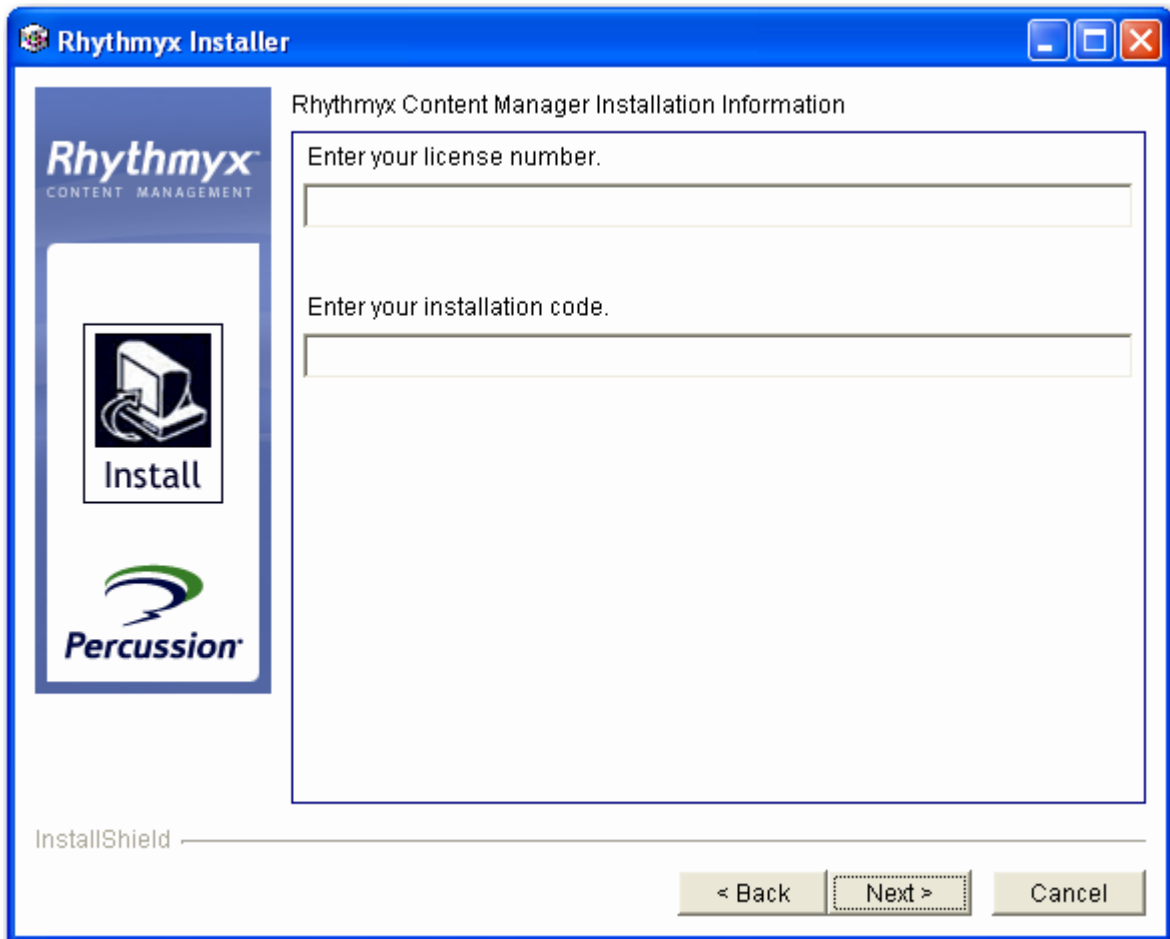


Figure 10: Installation Information dialog

- 11 Enter the license number and installation code, which you can find on the back of the CD jacket. Click the [Next >>] button.

The installation wizard displays the license summary dialog, which lists the components you are licensed to install.

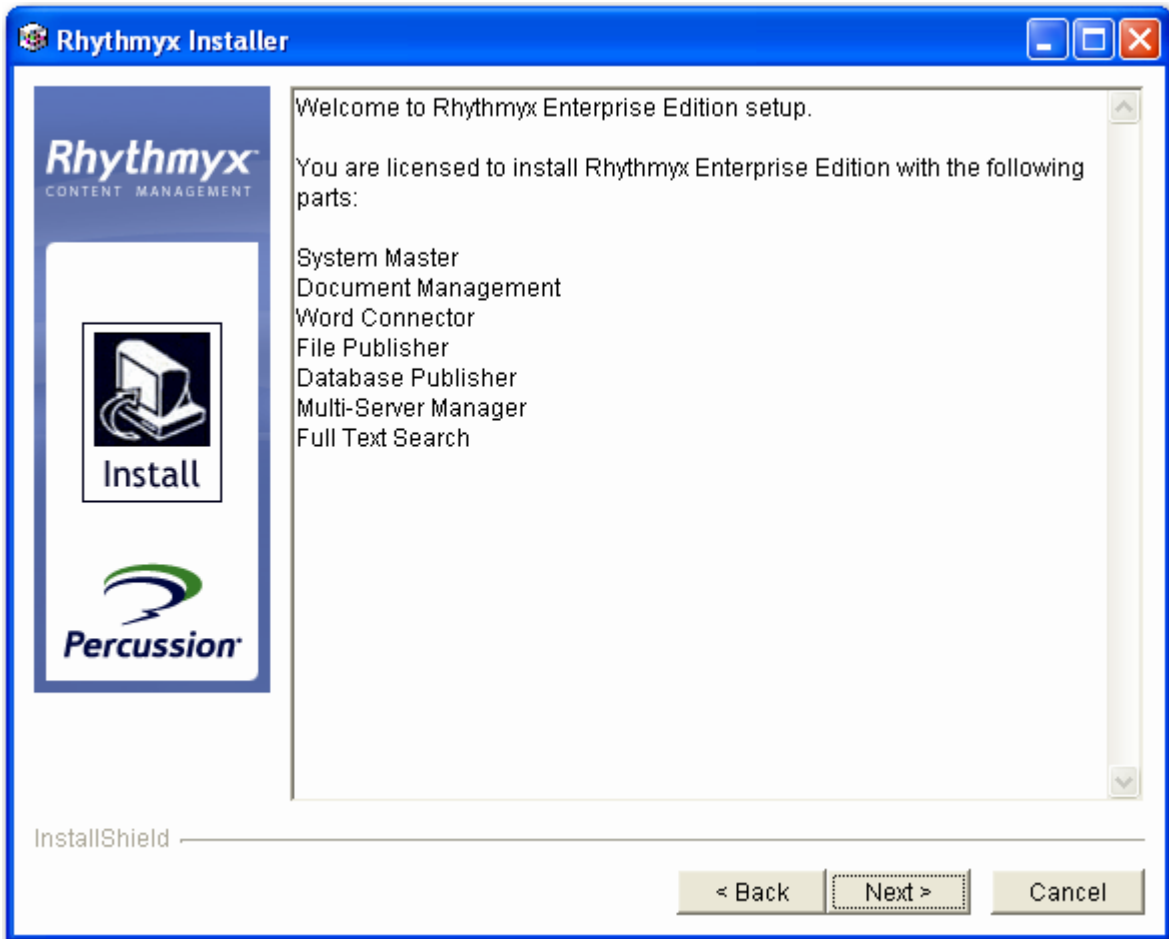


Figure 11: License summary dialog

12 Click the [Next >>] button.

The installation wizard displays the Repository Database Selection dialog.

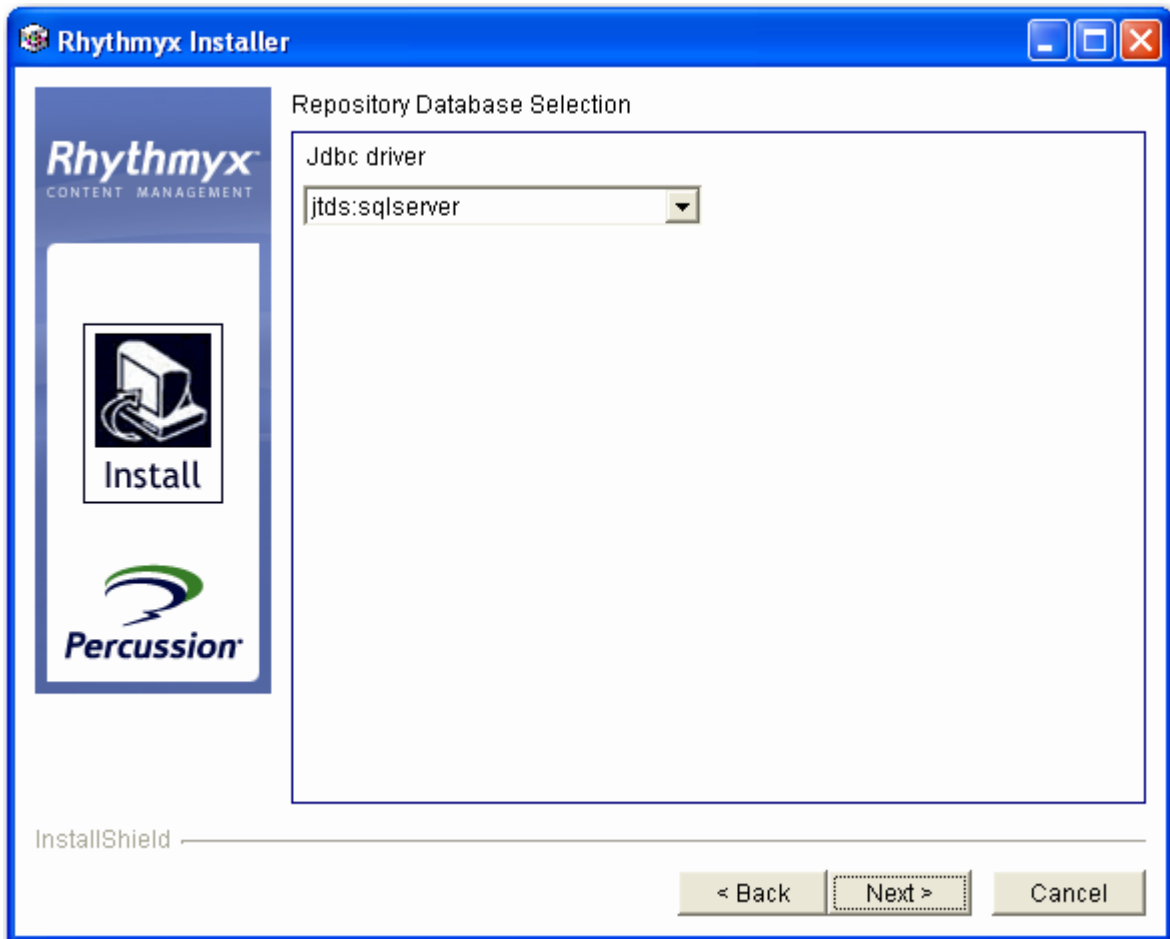
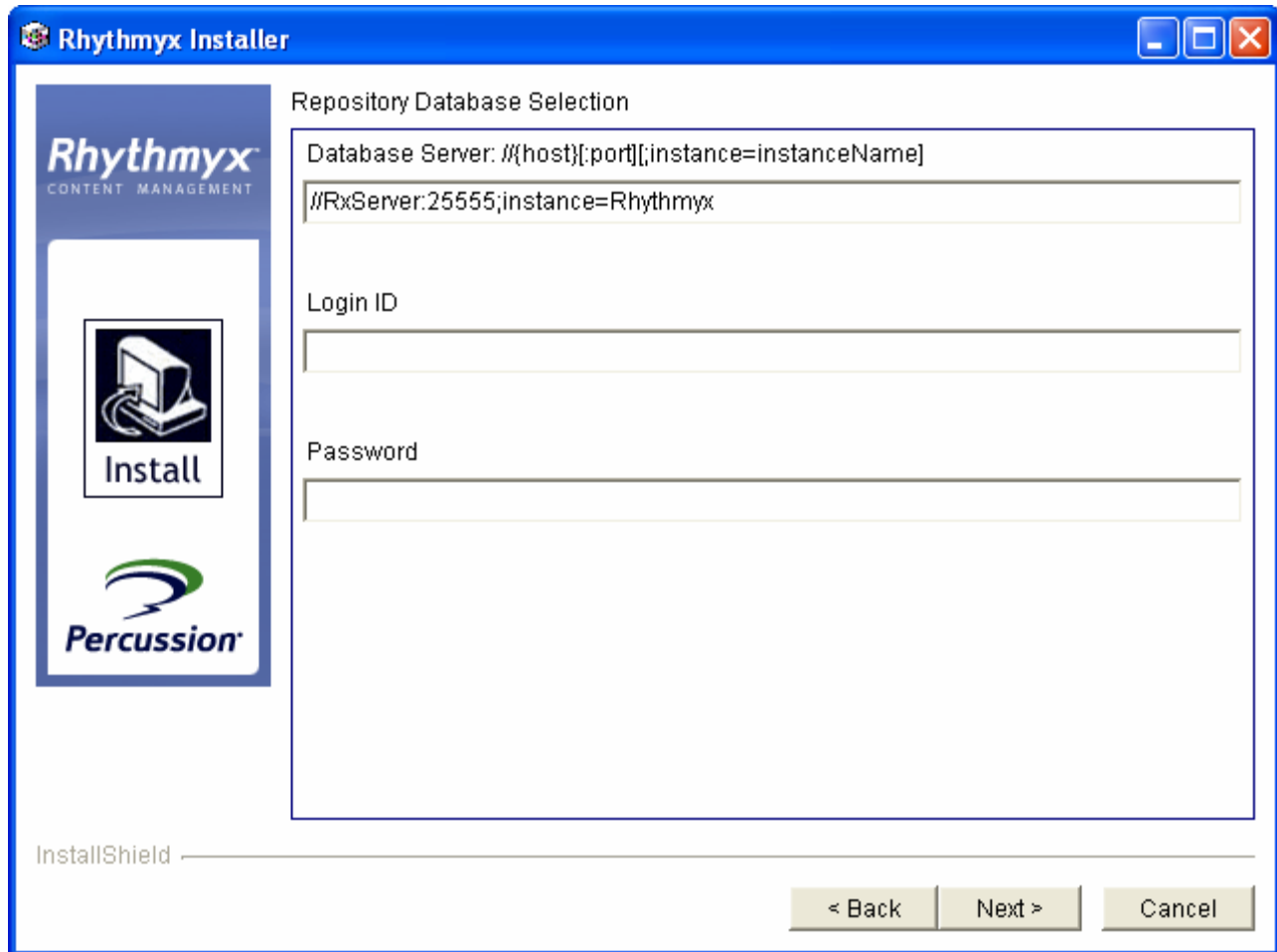


Figure 12: Repository Database Selection dialog

- 13 In this example, we choose *jtds:sqlserver*. You should choose the option in the drop list that matches your database. Click [Next].

The installation wizard displays the Repository Database Definition dialog.



The screenshot shows a Windows-style dialog box titled "Rhythmyx Installer". The main area is titled "Repository Database Selection". On the left side, there is a vertical panel with the Rhythmyx logo (CONTENT MANAGEMENT), an "Install" button with a computer icon, and the Percussion logo. The main form area contains three input fields: "Database Server" with a placeholder text `://{host}[:port][;instance=instanceName]` and the value `//RxServer:25555;instance=Rhythmyx`; "Login ID" (empty); and "Password" (empty). At the bottom right, there are three buttons: "< Back", "Next >", and "Cancel". At the bottom left, there is an "InstallShield" logo.

Figure 13: Repository Database Definition dialog

- 14** In the Database Server field, enter `//localhost` (or the name or IP address of the machine where the SQLServer database resides if it is not local). (NOTE: The jtds driver requires the double backslashes (`//`) in the server specification. If you have specified a port other than the default {1433} for your SQL server installation, you must also specify the port {for example: `//localhost:1433`}. If you use a SQL Server instance, you must specify the instance as well: `//localhost:1422;instance=Rhythmyx`.) In the Login ID field, enter the login ID of your SQL Server installation (the default user is `sa`). In the Password field, enter the password of the user used to log in to the database. Click the [Next >>] button.

The installation wizard displays the Schema and Database Definition dialog.

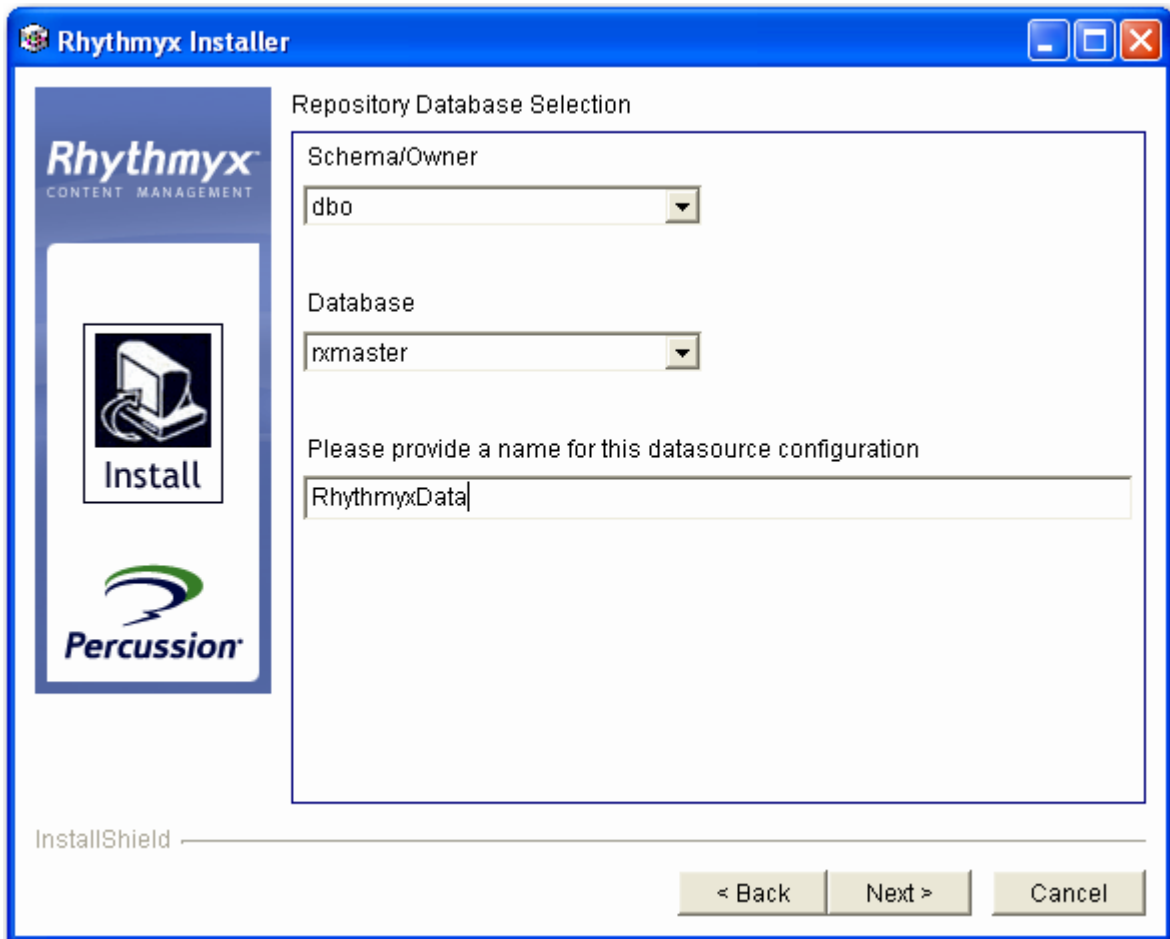


Figure 14: Schema and Database Definition dialog

- 15 If you defined a database owner other than the default `dbo` owner, choose the owner from the Schema/Owner drop list. (In most cases, you can leave the default `{dbo}` selected.) In the Database drop list, choose `rxmaster`. The default name for the datasource configuration used to connect to the database is `RhythmyxData`, but you can change the name if you prefer. Click the [Next >>] button.

The installation wizard displays the Rhythmyx Service Properties dialog

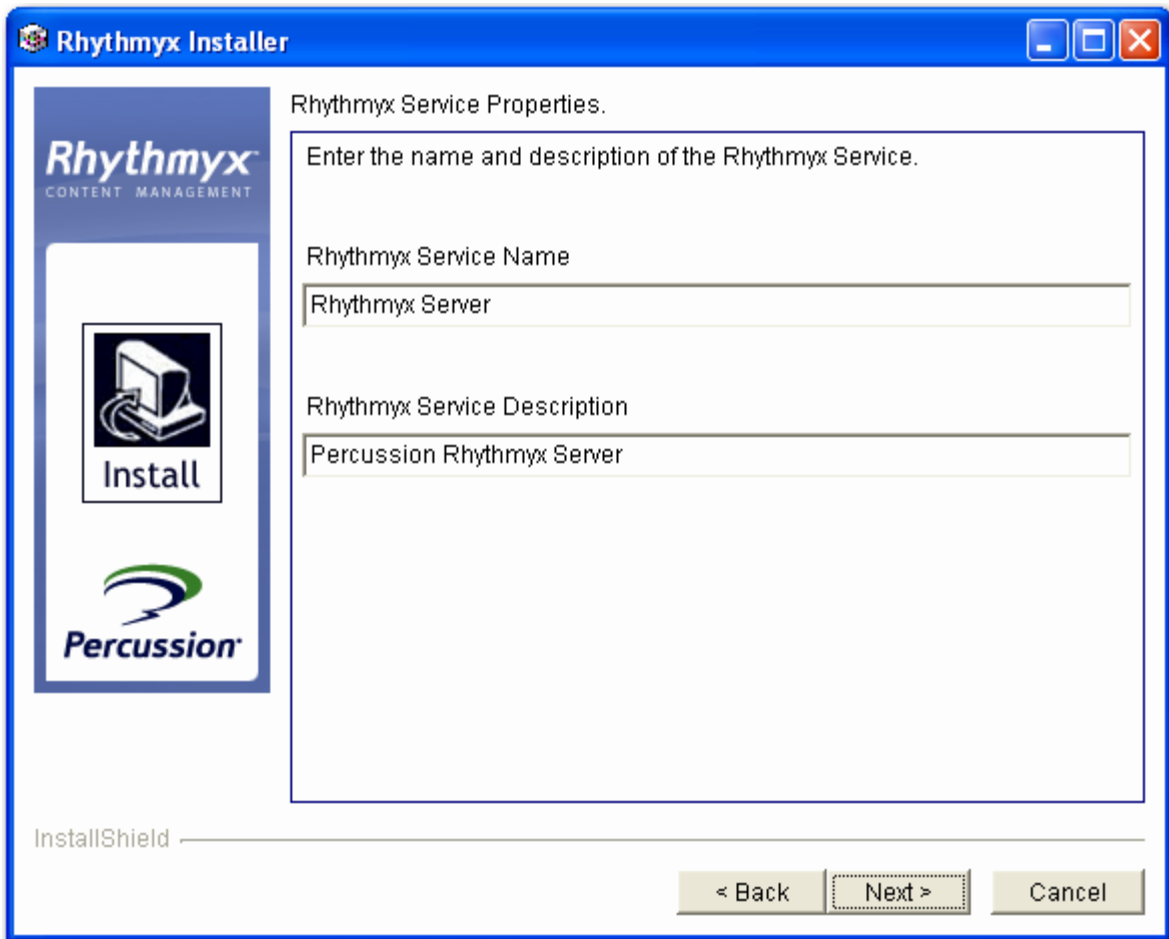


Figure 15: Rhythmyx Service Properties dialog

- 16 For the purposes of this procedure, we will use the default name (*Rhythmyx*) and description (*Percussion Rhythmyx*) of the Rhythmyx service. Click the [Next >>] button.

The installation wizard displays the Rhythmyx Server Settings dialog.

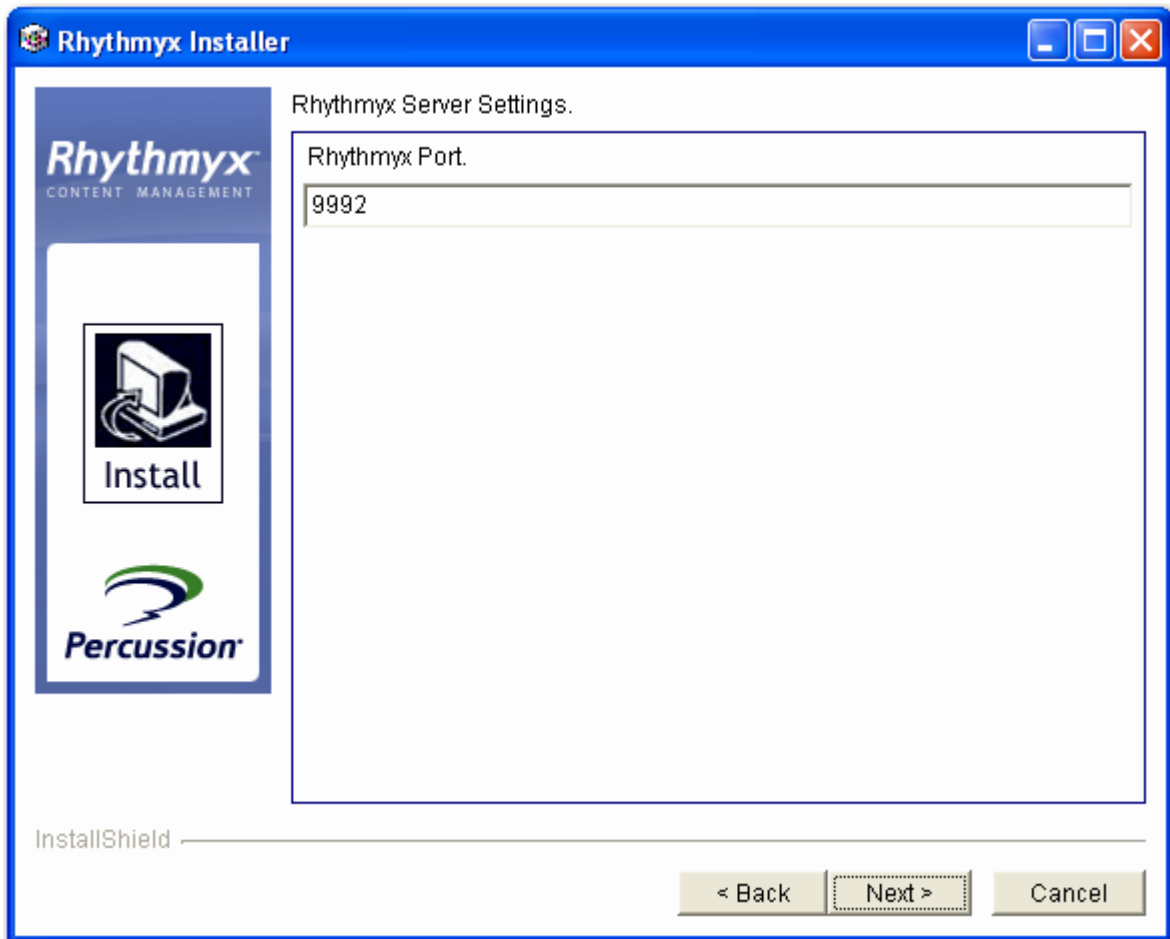


Figure 16: Rhythmyx Server Settings dialog

17 We will use the default port (9992). Click the [Next >>] button.

The installation wizard displays the Full Text Search Settings dialog

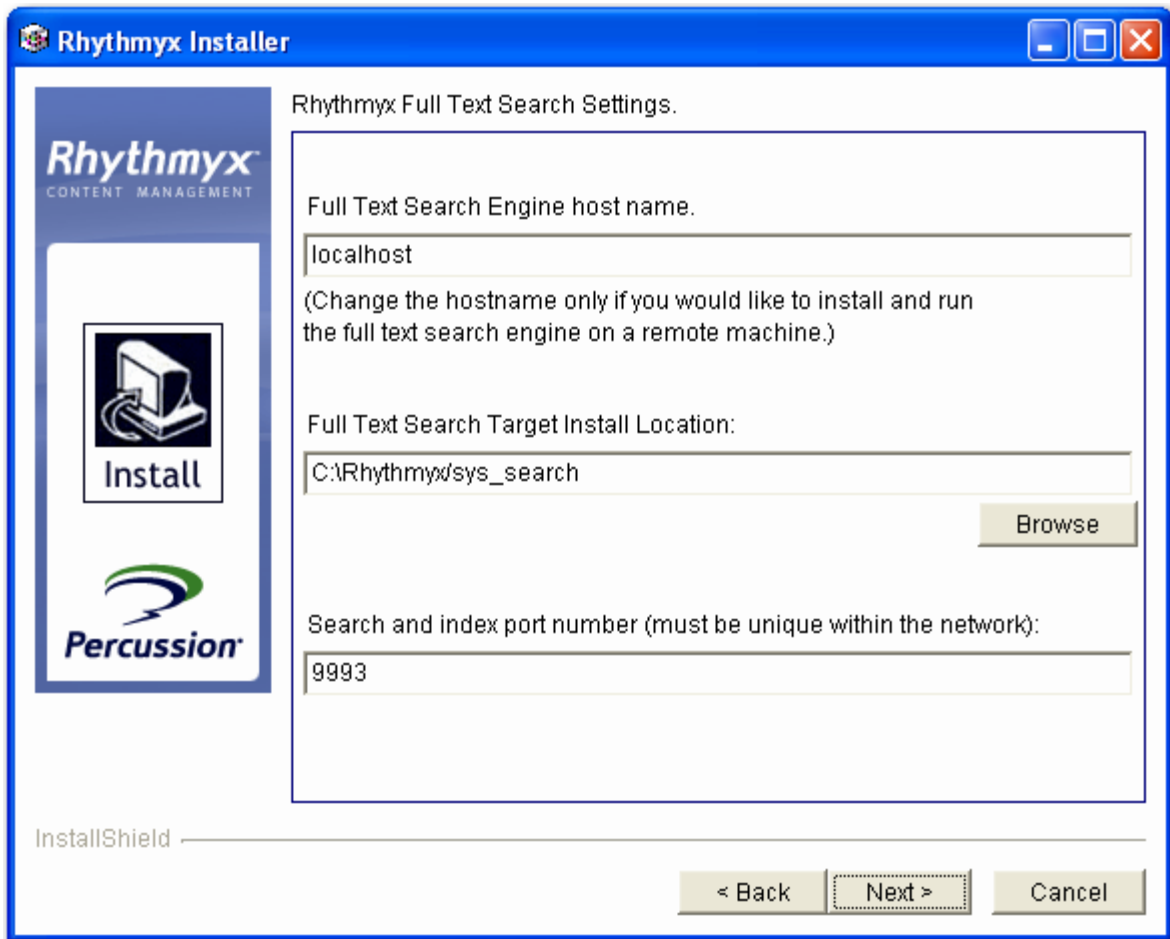
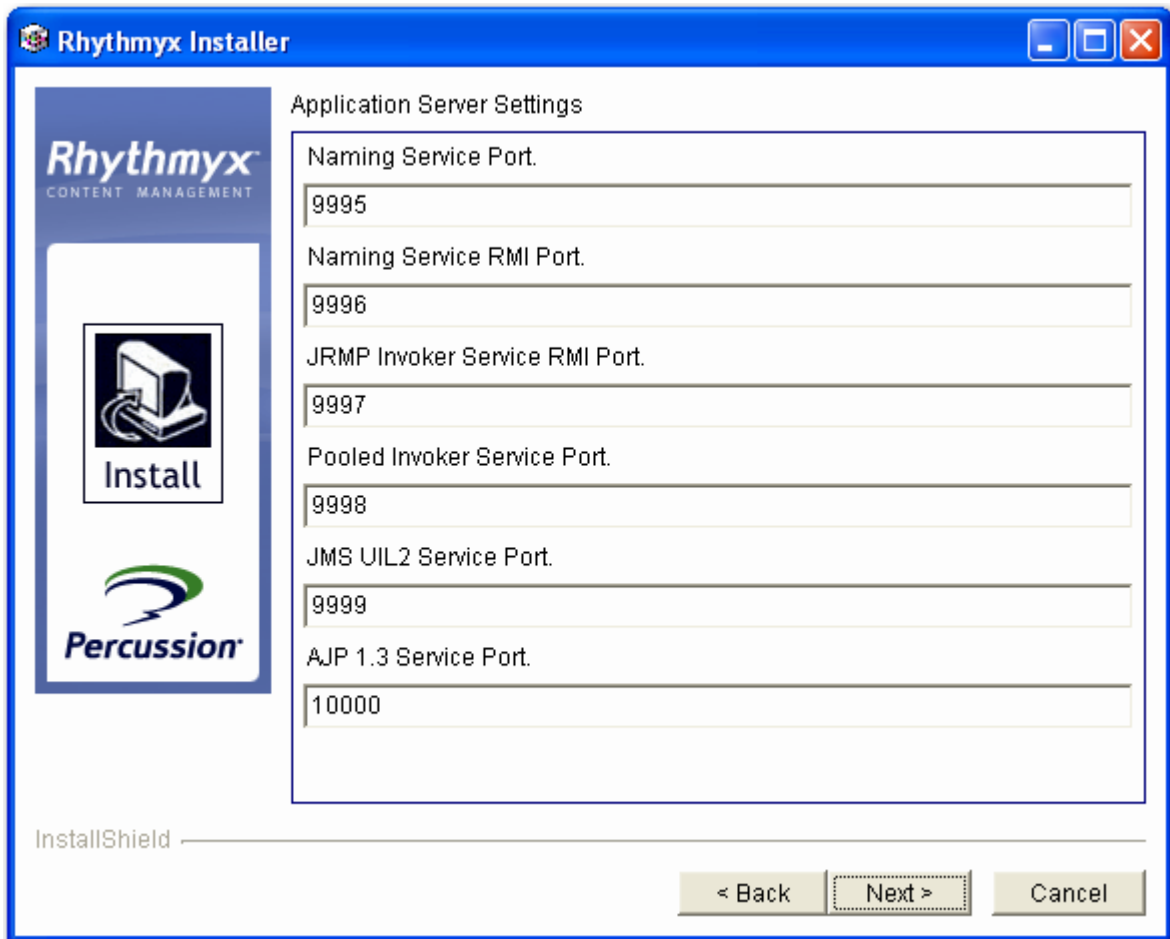


Figure 17: Full-text Search Settings dialog

- 18** If you want to set up full text search on the local machine, accept the defaults for the search engine host name and the search target install location. (See the Note below for information on choosing a port.) If you want to set up the Full-text search engine on a remote machine see (need appendix on setting up remote FTS engine). Click the [Next >>] button.

NOTE: Percussion Software recommends that you choose unique search port numbers other than the default port number (9993) for each installation of Rhythmyx with full text search within the same network, whether it is a development or a production installation. Choosing unique search port numbers avoids a potential conflict with search results that can occur when two Rhythmyx servers on the same network use the same search port number.

The installation wizard displays the Application Server Settings dialog.



- 19** This dialog lists the ports that will be used by the Rhythmyx server and its container. Review these ports to ensure that they are not already in use. If necessary, change these ports. Click the [Next >>] button.

The install wizard displays the installation summary dialog.

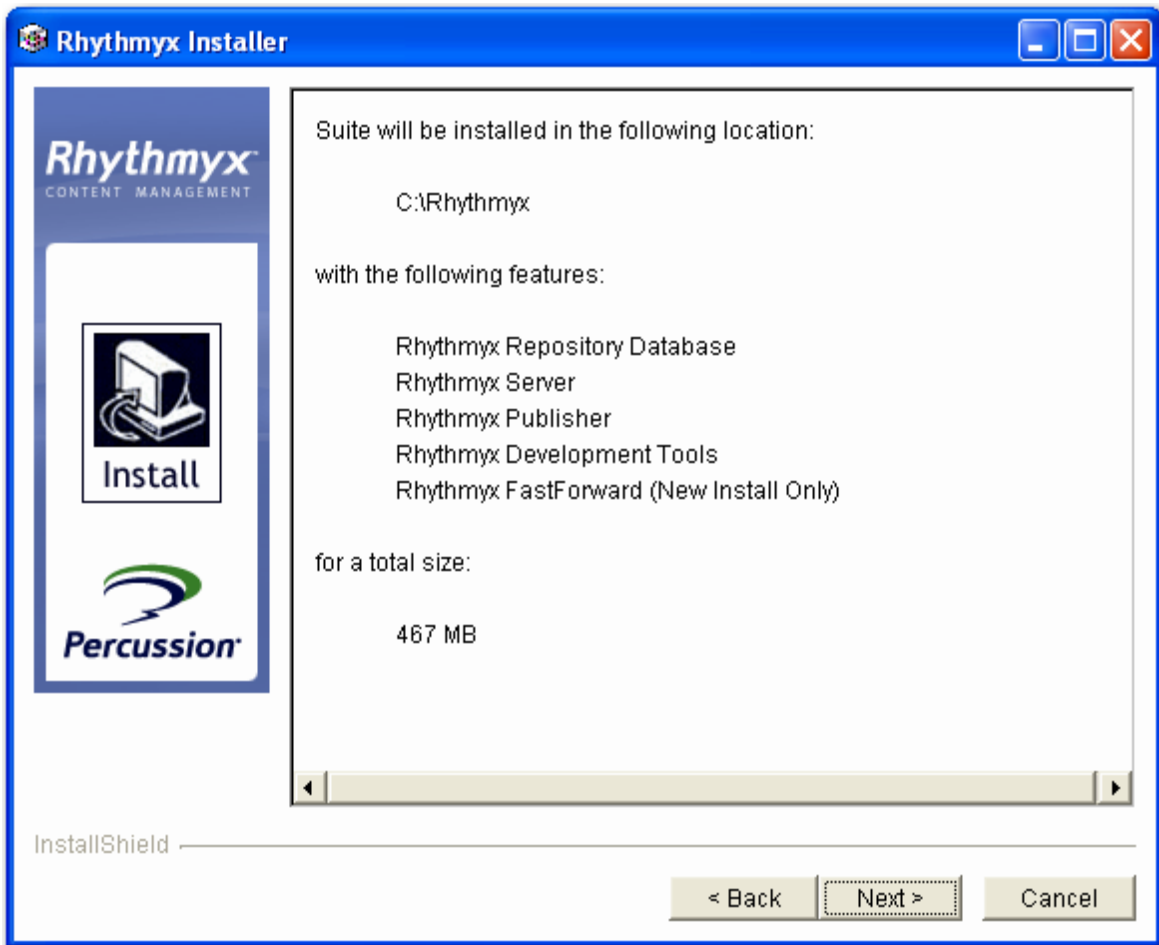


Figure 18: Installation summary dialog

20 Click the [Next >>] button.

The install wizard launches the installation process. When the installation process, the install wizard displays the readme.

21 Review the readme. Click [Next]. Click [Finish] to exit the Installer.

Installing Rhythmyx on Solaris/Oracle

NOTE: Before beginning the Rhythmyx installation, define a schema named `rxmaster` in Oracle that will serve as your Rhythmyx data repository. You must also have a login ID and password for the Solaris and Oracle servers. Contact your system or database administrator to obtain the necessary Solaris and Oracle accounts.

IMPORTANT REQUIREMENT: To open the Rhythmyx server installed in a UNIX environment, you must install the GNU Compiler Collection (GCC), Version 3.2.2 or higher. You can download GCC from www.freeware.com. Install GCC to either `/usr/local/lib` or `/usr/lib`; otherwise, you will have to modify the environment variable `LD_LIBRARY_PATH` (for the user account under which Rhythmyx is installed) to include the GCC path you use.

To install Rhythmyx with FastForward on a development Solaris platform with an Oracle backend, using the command line:

- 1 Create (or have your administrator create) a user in Solaris to install and run Rhythmyx. (If you run multiple instances of the Rhythmyx server, create a user for each instance.) The user you create must be the owner of all files copied from the CD-ROM; must have read permissions on all installer files; and must have execute and read permissions on the following files:
 - `suite.so`
 - `SetupConsole.sh`

NOTE: You must log in as this same user to run Rhythmyx and perform upgrades.

- 2 Copy the contents of the installation CD-ROM to the install user's home directory (`/export/home/username`). (You cannot run the Solaris installation directly from the CD-ROM.)
- 3 From the install user's home directory, change to the directory containing the Rhythmyx setup installation files.

```
$ cd rxinstaller/setup
```

- 4 Run the shell script `SetupConsole.sh`.

```
$ sh SetupConsole.sh
```

NOTE: If you receive a message about insufficient disk space, create a temporary directory under the install user's home directory called `tmp`.

```
$ cd /export/home/username
```

```
$ mkdir tmp
```

Then run the install script again, using this command line:

```
$ sh SetupConsole.sh -is:tempdir /export/home/username/tmp
```

- 7 Enter 1 and press Enter to accept the terms of the license agreement.

```
Please choose from the following options:
[ ] 1 - I accept the terms of the license agreement.
[X] 2 - I do not accept the terms of the license agreement.
To select an item enter its number, or 0 when you are finished: [0] 1
```

Figure 21: Accepting the License Agreement

- 8 Enter 0 and press Enter to quit out of the prompt. (If you don't enter 0, the script keeps prompting you to accept the license agreement.)

```
[X] 1 - I accept the terms of the license agreement.
[ ] 2 - I do not accept the terms of the license agreement.
To select an item enter its number, or 0 when you are finished: [0] 0
```

Figure 22: Quitting the License Agreement Prompt

- 9 The script displays information about the need to create a user ID to run the Rhythmyx installation, run Rhythmyx, and perform updates to the installation in the future. (Note that when performing an update, this user must also have read and write permissions on all the files under the Rhythmyx root directory.) You should have already created this user in step 1 of this procedure. Create the user ID if necessary and enter 1 to continue.

```
Please read the information below.
If you are performing a new installation of Rhythmyx, then you must create a
system account for Rhythmyx, login into the system with that account and then
run the installation. You must then use the new account for running Rhythmyx
and performing updates to the Rhythmyx installation. If you are performing an
update to an existing Rhythmyx installation, then you must login into the
system with the same account under which you installed and run Rhythmyx. Also
make sure that this account has read and write permissions on all the files
under the Rhythmyx root directory.
Press 1 for Next, 2 for Previous, 3 to Cancel or 4 to Redisplay [1] 1
```

Figure 23: Reminder to Create Install User in Solaris

- 10 Enter 1 and press Enter for new install.

```
Choose Installation Type
Choose Installation Type
  1. New install
  2. Upgrade existing install
Enter one of the options above: [1] 1
```

Figure 24: New or Upgrade Installation Prompt

- 11** Rhythmyx displays the default location for the installation, which is under the install user's home directory. Press Enter to accept the default and continue.

```
Installation Directory
Enter a directory: [/export/home/bobbie/Rhythmyx] █
```

Figure 25: Installation Directory Prompt

- 12** The script asks if you want to create the installation directory if it doesn't exist. Enter 1 and press Enter to create the directory and continue.

```
1. OK
2. Cancel

The directory does not exist. Do you want to create it? [1] 1
```

Figure 26: Prompt to Create the Installation Directory

- 13** Set the install user permissions (according to the information in the following prompt) on all files under the Rhythmyx root installation directory, if necessary. Enter 1 and press Enter to continue.

```
Please read the information below.

The current user must have read and write permissions on all the files under
the Rhythmyx root directory. Please reset the file permissions before
continuing with the installation.

Press 1 for Next, 2 for Previous, 3 to Cancel or 4 to Redisplay [1] 1
```

Figure 27: User Permissions Prompt

- 14** Deselect the following products from the installation options list (they aren't necessary in the development environment):
- Rhythmyx Enterprise Content Connector
 - Rhythmyx Full Text Search

To deselect a product, enter its number at the prompt, press Enter, and follow the on-screen instructions. Then deselect the next product. When you have finished deselecting products, enter 0 and press Enter to continue with the installation. The following dialog shows how to deselect Full Text Search; Enterprise Content Connector is already deselected in this example.

```
Select the products you would like to install:

To select/deselect a product or to change its setup type, type its number:

Product                                     Setup Type
-----
1. [x] Rhythmyx Repository Database          Typical
2. [x] Rhythmyx Server                      Typical
3. [x] Rhythmyx Publisher                   Custom
4. [ ] Rhythmyx Enterprise Content Connector
5. [x] Rhythmyx Full Text Search            Typical
6. [x] Rhythmyx FastForward (New Install Only) Custom

Other options:

0. Continue installing

Enter command [0] 5

1. Deselect 'Rhythmyx Full Text Search'
2. Change 'Rhythmyx Full Text Search' setup type

Enter command [1] 1
```

Figure 28: Deselecting Install Options

The following screen shot shows the recommended configuration of this dialog for the development server installation:

```
Select the products you would like to install:

To select/deselect a product or to change its setup type, type its number:

Product                                     Setup Type
-----
1. [x] Rhythmyx Repository Database          Typical
2. [x] Rhythmyx Server                      Typical
3. [x] Rhythmyx Publisher                   Custom
4. [ ] Rhythmyx Enterprise Content Connector
5. [ ] Rhythmyx Full Text Search
6. [x] Rhythmyx FastForward (New Install Only) Custom
```

Figure 29: Products to Deselect in Development Environment

- 15** Do not select either of the two features displayed for the Rhythmyx Publisher. Enter 0 and press Enter to continue with the installation.

```
Select the features for "Rhythmyx Publisher" you would like to
install:

Rhythmyx Publisher

To select/deselect a feature or to view its children, type
its number:

1. [ ] Database Publisher

Other options:

0. Continue installing

Enter command [0]
```

Figure 30: Publisher Options

- 16** Accept the default selection of both Fast Forward features and enter 0 to continue.

```
Select the features for "Rhythmyx FastForward (New Install Only)" you would
like to install:

Rhythmyx FastForward (New Install Only)

To select/deselect a feature or to view its children, type its number:

1. [x] FastForward Applications
2. [x] FastForward Sample Content

Other options:

0. Continue installing

Enter command [0] 0
```

Figure 31: Selecting FastForward Applications

- 17** Specify the type of Rhythmyx server you want to install. Enter 1 and press Enter to choose System Master, which is used in most situations.

```
Rhythmyx Server Type:

1. System Master
2. Publishing Hub

[1] 1
```

Figure 32: Choosing the Rhythmyx Server Type

- 18** Enter your license number and installation code, which you can find on the back of the install CD-ROM jacket. (The number and code shown below are only examples.)

NOTE: Remember that the license number and installation code are only good for 30 days. After 30 days, contact Percussion Software, Inc. Technical Support for a new number.

```
Rhythmyx Content Manager Installation Information
Enter your license number. [] B-BAEA-BFIAID-TIAC-92
Enter your installation code. [] B-BAEA-BFIAID-TIAC-92
```

Figure 33: Entering the License Number

- 19** The installer displays a summary of the Rhythmyx features you are licensed to install. Confirm that the correct components are listed; enter 1 and press Enter to continue.

```
Welcome to Rhythmyx Enterprise Edition setup.

You are licensed to install Rhythmyx Enterprise Edition with the following
parts:

System Master
Document Management
Word Connector
File Publisher
Database Publisher
Multi-Server Manager
Full Text Search

[Press Enter]

Press 1 for Next, 2 for Previous, 3 to Cancel or 4 to Redisplay [1] 1
```

Figure 34: Rhythmyx Features Licensed to Install

- 20** Define the Jdbc subprotocol to connect to your database. For an Oracle database, enter 2 and press Enter for oracle:thin.

```
Repository Database Selection

1. jtds:sqlserver
2. oracle:thin
3. sybase
4. db2

Jdbc subprotocol [1] 2
```

Figure 35: Database Subprotocol Selection

- 21** Rhythmyx asks you to enter the database server name. The installer automatically fills in for you the name of the server on which you are installing Rhythmyx. If this is where your database is, press Enter to continue. If your database is on a different machine, enter the IP address or host name for that machine, the port number, and the SID and press Enter. Remember to insert the @ sign before the IP address or host name.

```
Repository Database Selection
Database Server: @{host}:{port}:{sid} [@qapercsun:1521:ORCL] @255.255.255.92:
1521:renzar
```

- 22** Enter your Oracle login ID and password; then enter 1 and press Enter to continue.

```
Login ID [] BOBBIEK
Password [] demo
Press 1 for Next, 2 for Previous, 3 to Cancel or 4 to Redisplay [1] 1
```

Figure 36: Oracle Login ID and Password

- 23** If the connection to the database is successful, you see a message similar to the one shown below.

```
Connecting to : jdbc:oracle:thin:@255.255.255.92:1521:ORCL
Connecting to : jdbc:oracle:thin:@255.255.255.92:1521:ORCL
```

NOTE: If the installer cannot connect to the database successfully, check that you entered the following data correctly: the database host machine IP address or host name, port number, SID, and the database user login ID and password. If these are correct, be sure the two servers can communicate, for example, be sure both servers are running and that there is no problem such as a firewall configuration that prevents access.

- 24** If the connection to the database is successful, the installer displays a list of schema names. At the prompt, enter the number for the schema that will serve as your Rhythmyx data repository -- rxmaster -- and press Enter.

```
30. SCOTT
31. SI_INFORMTN_SCHEMA
32. SYS
33. SYSMAN
34. SYSTEM
35. TESTPML
36. VAMSI
37. VAMSI2
38. WKPROXY
39. WKSYS
40. WK_TEST
41. WMSYS
42. XDB
[1] 7
```

Figure 37: Select Schema Name

- 25** After the installation wizard connects to the schema you specify, it asks you to specify a name for the Datasource configuration. The default name for the Datasource configuration is *Rhythmyx Data*, but you can change it to another name if you prefer.

```
Connecting to : jdbc:oracle:thin:@10.10.10.91:1521:reznor
Please provide a name for this datasource configuration: [RhythmyxData]
```

Figure 38: Datasource configuration

- 26** Accept the default bindPort number of 9992 by pressing Enter. (The bind port number must be in the range 1025 through 65535, as numbers 1 through 1024 are reserved by many companies.)

```
Rhythmyx Server Settings.
bindPort [9992] █
```

Figure 39: Choose Bind Port Number

- 27** The installer displays a warning that all port numbers in the installation must be unique. Follow the instructions to change the port number, if necessary, or press Enter to continue. If you wish, you can enter 1 at the prompt to prevent the installer from displaying this warning message in the future.

```
Rhythmyx Server Settings.
bindPort [9992]
Press 1 for Next, 2 for Previous, 3 to Cancel or 4 to Redisplay [1] 1
  1. Don't repeat this warning
  2. Continue to show this warning
Each port number in this installation must be unique.
If the port number on this page duplicates any other in this installation,
then return to this page and change the port number. [1]
```

Figure 40: Unique Port Number Warning

- 28** After you define the full-text search configuration, the installation wizard displays a set of application server ports. These ports are used internally by the Rhythmyx application server. check to confirm that these ports are not in use. If any of the ports are in use, change the port to one that is not in use.

```
Application Server Settings
Naming Service Port. [9232]
Naming Service RMI Port. [9233]
JRMP Invoker Service RMI Port. [9234]
Pooled Invoker Service Port. [9235]
JMS UIL2 Service Port. [9236]
ATP 1.3 Service Port. [9237]
```

Figure 41: Application Server Port Listings

- 29** Enter 1 and press Enter to confirm the display of location and features for your Rhythmyx installation. The features listed should include the Rhythmyx Repository Database, Rhythmyx Server, Rhythmyx Publisher, and Rhythmyx FastForward.

```
Suite will be installed in the following location:
/export/home/bobbie/Rhythmyx
with the following features:
Rhythmyx Repository Database
Rhythmyx Server
Rhythmyx Publisher
Rhythmyx FastForward (New Install Only)
for a total size:
285.3 MB
Press 1 for Next, 2 for Previous, 3 to Cancel or 4 to Redisplay [1] 1
```

Figure 42: Confirm Rhythmyx Installation Features and Location

- 30** The installation runs, displaying a progress bar and a list of extensions it is installing. Periodically, it displays other messages indicating what is being installed, for example:

```
Installing Rhythmyx Publisher. Please wait...

Creating uninstaller...

Installing Rhythmyx FastForward (New Install Only). Please wait...
Installing extension: Java/global/percussion/fastforward/managednav/rxs_NavFolderEffect
Installing extension: Java/global/percussion/fastforward/managednav/rxs_NavReset
Installing extension: Java/global/percussion/fastforward/managednav/rxs_NavAutoS
lot
```

Figure 43: Rhythmyx Installation Progress Messages

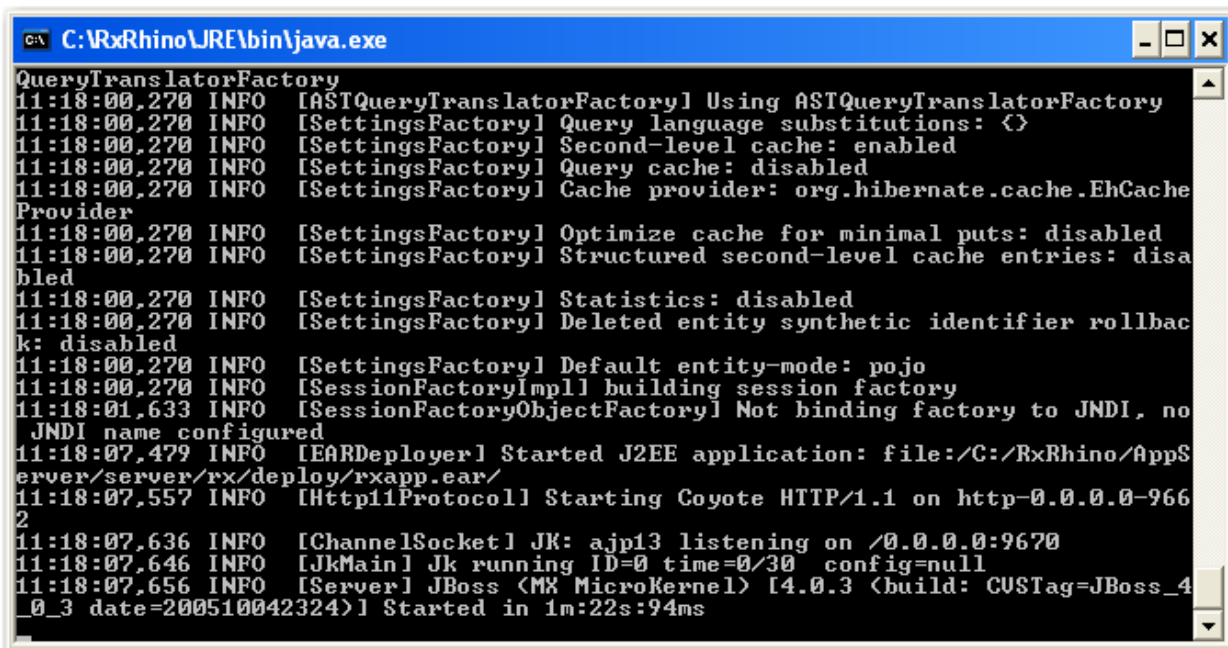
Post-Installation Steps

When the installation is complete, follow these steps:

- 1** Read the readme.txt file in the Rhythmyx root installation directory. It contains information that could be very important to you.
- 2** To enable auto-startup of Rhythmyx, run the InstallDaemon.sh script located in the Rhythmyx root directory. This script must be run as root.
- 3** Source the .profile file to update the environment variables for the current shell.

Starting the Rhythmyx Server

To start the Rhythmyx Server in Windows, in your Rhythmyx root directory, double-click on the file `RhythmyxServer.exe`. A terminal window should open and list the progress of the Server initialization. When the terminal window displays the message “Started in...”, the Rhythmyx Server is up and running:

A screenshot of a Windows command prompt window titled "C:\RxRhino\JRE\bin\java.exe". The window displays the output of the Rhythmyx Server startup process. The output consists of several lines of log messages, including information about the QueryTranslatorFactory, SettingsFactory, SessionFactory, and the JBoss server starting up. The final line indicates that the server has started in 1m:22s:94ms.

```
QueryTranslatorFactory
11:18:00,270 INFO [ASTQueryTranslatorFactory] Using ASTQueryTranslatorFactory
11:18:00,270 INFO [SettingsFactory] Query language substitutions: {}
11:18:00,270 INFO [SettingsFactory] Second-level cache: enabled
11:18:00,270 INFO [SettingsFactory] Query cache: disabled
11:18:00,270 INFO [SettingsFactory] Cache provider: org.hibernate.cache.EhCache
Provider
11:18:00,270 INFO [SettingsFactory] Optimize cache for minimal puts: disabled
11:18:00,270 INFO [SettingsFactory] Structured second-level cache entries: disa
bled
11:18:00,270 INFO [SettingsFactory] Statistics: disabled
11:18:00,270 INFO [SettingsFactory] Deleted entity synthetic identifier rollbac
k: disabled
11:18:00,270 INFO [SettingsFactory] Default entity-mode: pojo
11:18:00,270 INFO [SessionFactoryImpl] building session factory
11:18:01,633 INFO [SessionFactoryObjectFactory] Not binding factory to JNDI, no
JNDI name configured
11:18:07,479 INFO [EARDeployer] Started J2EE application: file:/C:/RxRhino/AppS
erver/server/rx/deploy/rxapp.ear/
11:18:07,557 INFO [Http11Protocol] Starting Coyote HTTP/1.1 on http-0.0.0.0-966
2
11:18:07,636 INFO [ChannelSocket] JK: ajp13 listening on /0.0.0.0:9670
11:18:07,646 INFO [JkMain] Jk running ID=0 time=0/30 config=null
11:18:07,656 INFO [Server] JBoss (MX MicroKernel) [4.0.3 (build: CUSTag=JBoss_4
_0_3 date=200510042324)] Started in 1m:22s:94ms
```

Figure 44: Rhythmyx Server Console

If you have problems starting the Rhythmyx Server, see *Startup* (on page 104) in the Troubleshooting section of this document.

CHAPTER 3

Introduction to Content Explorer

Content Explorer is the default home page Rhythmyx displays when any user logs in to the Rhythmyx Content Management System. Content Explorer gives business users access to Content Item administration functions such as create, approve, and copy, and gives implementers and administrators access to Publishing and Workflow setup screens.

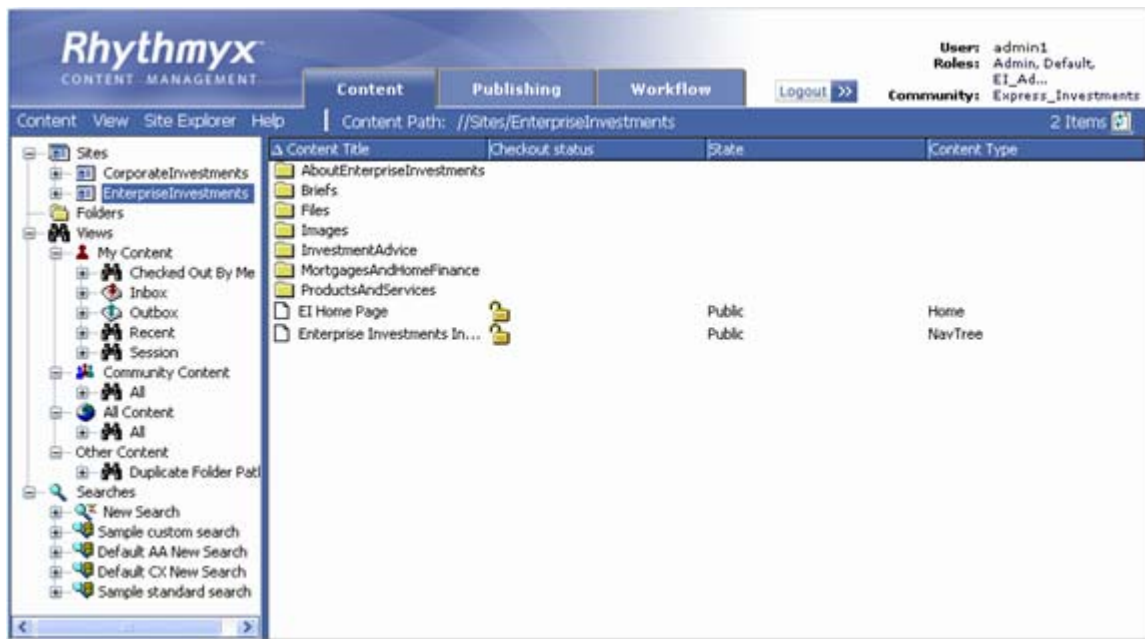


Figure 45: Content Explorer

The following sections explain how to log in to Content Explorer and summarize the functions of each of its tabs.

Logging in to Content Explorer

To log into Content Explorer:

- 1 Open one of the supported Web browsers and navigate to `http://servername:port/Rhythmyx` where `servername:port` describes the location of the Rhythmyx server. For example, if your Rhythmyx Server is named `contentmanager` and you are using the default port `9992`, enter `http://contentmanager:9992/Rhythmyx`.

Rhythmyx prompts you to log in.

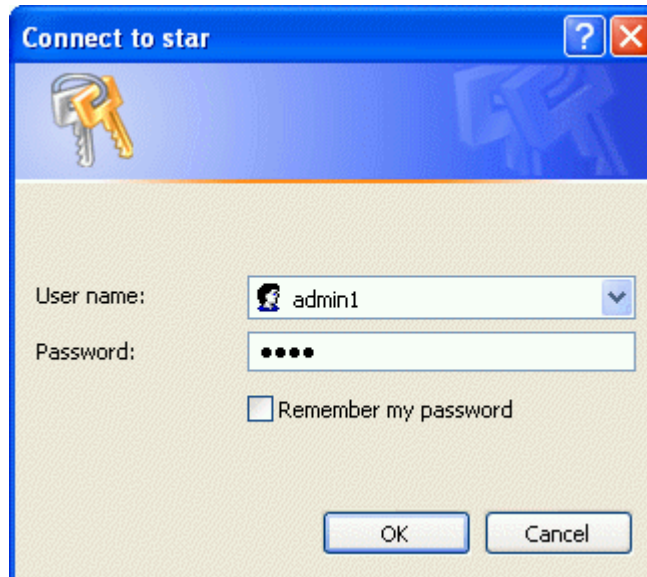


Figure 46: Login Dialog

- 2 Enter the User name `admin1` and the Password `demo`, and click [OK].

Rhythmyx opens Content Explorer. The Content tab is selected, and all three tabs are displayed. In the upper-right corner, the Status Box displays the Login User Name, *admin1*. The Roles that the user belongs to do not fit in the available space, but Rhythmyx displays those that do with an ellipsis (...) to indicate that the user belongs to more Roles. FastForward's only Locale is US English, so the Status Box does not display a Locale.

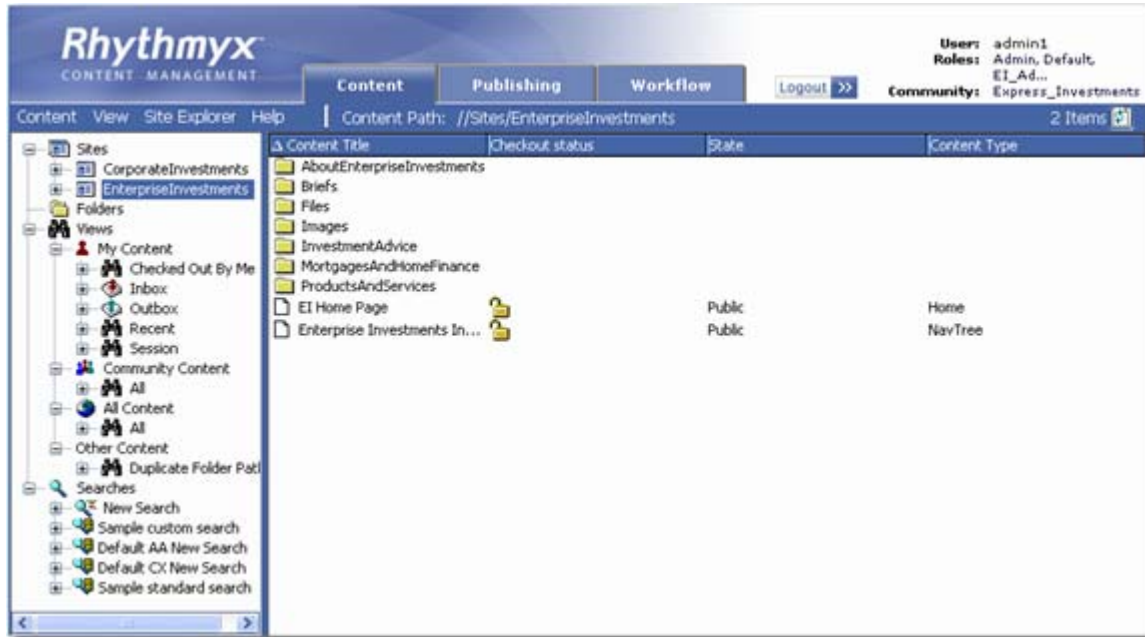


Figure 47: Content Explorer

- 3 Hold your cursor over the word *Admin* or click on it.

Content Explorer displays all of the User's Roles:



Figure 48: User Roles

The Site Folders in your navigation pane should appear identical to those in the Content Explorer graphic above.

Content Tab

In the Content Tab, business users create and modify Content Items and transition them into Workflow States. This tab also allows users to actively assemble Content Items as pages or portions of pages and preview the results.

The Content tab appears and functions similarly to the Windows Explorer interface: the left pane displays a Navigation Tree and the right pane is a Display pane that lists the contents of the node selected in the Navigation Tree.

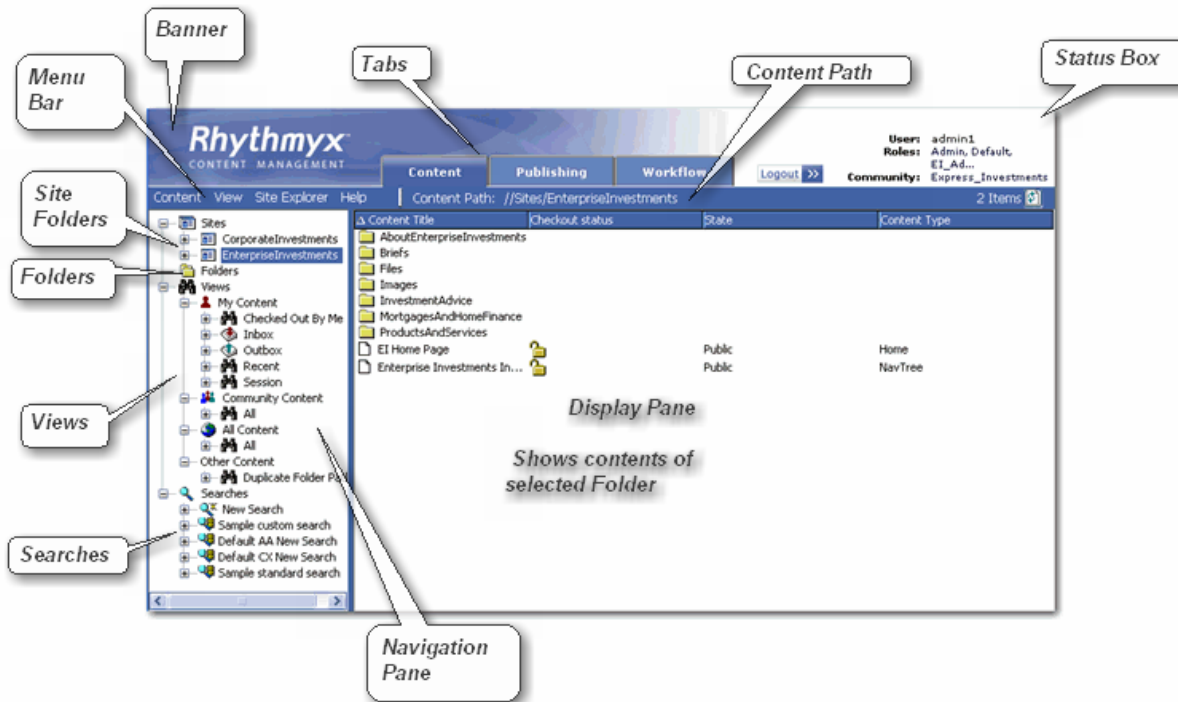


Figure 49: Content Tab of Content Explorer

Several of the components labeled on the Content tab graphic above are present in Content Explorer regardless of the tab selected. These components include the Rhythmyx banner, which displays the product name, the Session Properties box, which displays the login User Name, Roles, Community, and Locale (if the system includes more than one Locale), and tabs for accessing other pages. Only the tabs for pages that the user may access are visible. If the user only has access to the Content tab, no tabs are visible.

The Navigation pane includes four main nodes that represent different ways of navigating Content Items:

- Sites – Provides users with a location for setting up a folder tree that resembles the structure of an external site or sites.
- Folders – Contains folders that contain sub-folders or Content Items.
- Views – Contains views that display content sorted and selected according to predefined parameters.
- Searches – Contains search queries.

When a user selects a node in the Navigation Tree, the Display Pane displays its contents. In the Display Pane, users can select a Content Item and right-click to open a menu of options for acting on it.

The Content tab also includes a Menu Bar with drop menus that include the various actions available to users in the Content tab.

To the right of the Menu bar, the Content Path displays the full path of the component selected in the Navigation pane.

For more information about the Content tab, see the online Content Explorer help.

Publishing Tab

The Publishing tab includes links to pages for configuring publishing components and viewing details of published Editions. The default screen displays the Publication Logs by Site. At this point, you have not published anything, so your default page should list no logs. Click the Publishers – By Name link to view the Publishers page. Your Publisher’s page should appear identical to the following graphic, with only the publisher named *Localhost Publisher Default Port* listed.

The screenshot shows the 'Publishers' tab in the Rhythmyx interface. On the left is a navigation menu with sections: Publishers (By Name, By ID), Sites (By Name, By ID), Contexts (By Name, By ID), Variables (By Name), Editions (By Type, By Name, By Site), Content Lists (By Name), Publication Log (By Site, By Edition Name, By Edition Type, By Status, By Publication ID), and Purge Pub Log (By Site). The main area displays a table of publishers with the following data:

Publishers		New Publisher		
	Publisher(id)	Description	IP Address	Status
✘	Localhost Publisher Default Port(301)	Connects to a publisher running on default port on the same machine as the Rhythmyx server	127.0.0.1	Active

Figure 50: Publishing Tab of Content Explorer

For more details about pages available from the Publishing tab, see the document *CMS Online Help* or the *Rhythmyx Implementer's Guide*.

Workflow Tab

A Rhythmyx Workflow is a set of States that a Content Item progresses through during its lifetime. In general, Content Items are published after they pass through one or more approval States and reach a publish State.

The following graphic shows how the default Workflow tab appears when FastForward is installed. Your Workflow tab should also display the Simple and Standard Workflows.

The screenshot shows the Rhythmyx Content Management interface. At the top, there is a navigation bar with tabs for 'Content', 'Publishing', and 'Workflow'. The 'Workflow' tab is selected. To the right of the navigation bar, there is a 'Logout >>' button and user information: 'User: admin1', 'Roles: Admin, Default, EI_Ad...', and 'Community: Enterprise_Investments'. Below the navigation bar, there is a 'Help' button and a 'User Administration' button. The main content area displays a table of workflows. The table has columns for 'Name (ID)', 'Description', and 'Preview'. Two workflows are listed: 'Simple Workflow (4)' and 'Standard Workflow (5)'. The 'Simple Workflow (4)' has a description: 'This workflow is assigned to all communities'. The 'Standard Workflow (5)' has a description: 'This workflow requires two approvals before content is published. It is the default for most content types and is assigned to all communities.'

Name (ID)	Description	Preview
Simple Workflow (4)	This workflow is assigned to all communities	
Standard Workflow (5)	This workflow requires two approvals before content is published. It is the default for most content types and is assigned to all communities.	

Figure 51: Workflow Tab

For more information about Workflows and the Workflow tab, see the *CMS Online Help* or the document *Rhythmyx Implementation Guide*.

CHAPTER 4

Publishing FastForward for WCM Sample Content

This section shows you how to publish the content of the FastForward Web Site *Enterprise Investments*. The FastForward publishing configuration is set up to publish the content to the JBOSS application server installed with Rhythmyx.

Running the FastForward for WCM Edition

In Content Explorer, click on the Publishing tab. In the left navigation bar, under Editions, click on the By Name link. Content Explorer displays the Editions page.
















					Editions	
					New Edition	Copy Edition
	Publish	Edition Name (id)	Description	Destination Site (id)	Edition Type	
✗		Full Enterprise Investments (301)	Publish all items in public state	Enterprise Investments (301)		
✗		Incremental Enterprise Investments (302)	Publish only new and modified items in public state	Enterprise Investments (301)		
✗		Full Non-Binary Enterprise Investments (303)	Publish all non-binary items in public state	Enterprise Investments (301)		
✗		EI Publish Now (310)	Publish selected content to the EI site immediately	Enterprise Investments (301)		
✗		Full Corporate Investments (307)	Publish all items in public state	Corporate Investments (303)		
✗		Incremental Corporate Investments (308)	Publish only new and modified items in public state	Corporate Investments (303)		
✗		Full Non-Binary Corporate Investments (309)	Publish all non-binary items in public state	Corporate Investments (303)		

Figure 52: Editions page

Rhythmyx uses Editions to publish content. The Edition specifies the content to publish, and Site or location where you want to publish it. The Full Enterprise Investments Edition publishes all Public Content Items in the Enterprise Investments Site in Rhythmyx to the JBOSS application server. We will run this Edition manually to illustrate how Publishing an Edition works. In a production environment, a scheduling application usually triggers the Editions automatically.

To manually publish the Enterprise Investments Edition, on the Editions page, find the Full Enterprise Investments Edition, and click on the manual publish icon  in the Publish column.

As the Edition begins to run, Rhythmyx displays the following screen:

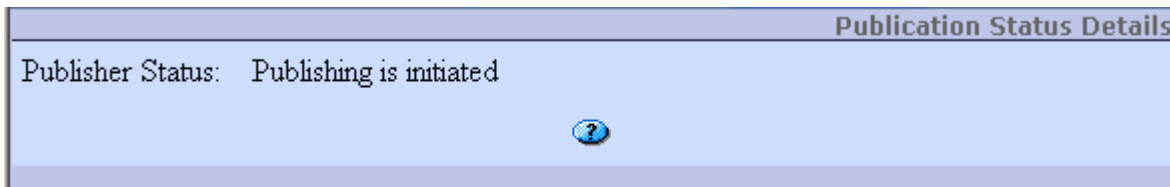


Figure 53: Publisher Status: Publishing is initiated

As publishing progresses, Rhythmyx may display:



Figure 54: Currently published Content List

When publishing is complete, Rhythmyx displays:

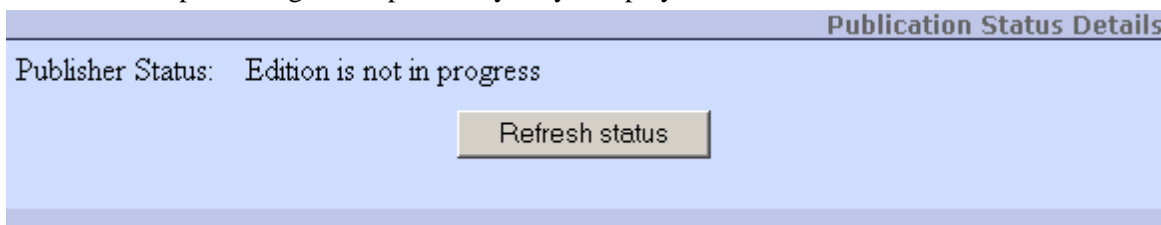


Figure 55: Publisher Status: Edition is not in progress

To check that the edition has run successfully:

- 1 Click the Publishing tab again.
- 2 In the Navigation pane, click Publishing Log, By Site.

Under the Enterprise Investments Site, two entries for your publication appear, one for each Content List that published, rffEiFullBinary and rffEiFullNonBinary. (Since no Content Items were marked for unpublishing, the third Content List in the Edition, rffEiUnpublish, did not publish and is not listed.)



Enterprise Investments (301)					Publications by Site				
Date/Time (Publication ID:Pubstatus ID)	Content List	Edition Name	Edition Type	Status					
2006-08-29 08:46:07.0 (301:302)	rffEiFullBinary (310)	Full Enterprise Investments		Success	73	0	0	0	0
2006-08-29 08:46:07.0 (301:303)	rffEiFullNonBinary (311)	Full Enterprise Investments		Success	68	0	0	0	0

Figure 56: Publishing log

- 3 To confirm that each Content List published successfully, check that the Status column for the Content List says Success.
- 4 Then check the numbers under the icons to the right of the Publishing Log. If you haven't changed the State of any of your Content Items, you should only see a count of the number of Content Items under the inserted content items icon:

The icons represent the following actions on items:

- - Inserted Content Items
- - Updated Content Items
- - Removed Content Items

-  - Skipped Content Items
-  - Content Items that generated errors

5 Now click on the first link in the Date/Time (Publication ID/Pubstatus ID) column to see the Site map for the content items published in the rffEiFullBinary Content List. The Site map should appear similar to:

Publication Details			
Filename	Operation	Status	CMS Link
../			
EI_Home.war/			
AboutEnterpriseInvestments/			
active_item469.gif	publish	success	About Enterprise Investments Buttons
active_item482.jpg	publish	success	About Enterprise Investments Section Image (NYSE Papers)
inactive_item469.gif	publish	success	About Enterprise Investments Buttons
inactive_item482.jpg	publish	success	About Enterprise Investments Section Image (NYSE Papers)
item481.jpg	publish	success	About EI HomePage Image (NYSE Papers).jpg
rollover_item469.gif	publish	success	About Enterprise Investments Buttons
rollover_item482.jpg	publish	success	About Enterprise Investments Section Image (NYSE Papers)
Files/			
item489.pdf	publish	success	EI Sample PDF.pdf
item490.doc	publish	success	EI Sample Word Document.doc
Images/			
CreditCard/			
item442.gif	publish	success	EIHomeEquityCreditCard.gif
Funds/			
EIGlobalHealthSciencesFund/			

Figure 57: Publication Map

Reviewing the Published Content

After you publish your FastForward content, you can review it in two ways:

- Check the Publication Log (Publog) for the publication run of the Edition.
- Open the Web Site in a browser and browse the Site.

If your Publog and published site do not resemble the data in the following sections, refer to **Publishing** (on page 104) in the Troubleshooting section of this document.

To review published content:

- 1 Click the Publishing tab in Content Explorer and click one of the Publication Log links. Locate the logs for your Publication (they may be the only logs listed).

Enterprise Investments (301)					Publications by Site				
Date/Time (Publication ID:Pubstatus ID)	Content List	Edition Name	Edition Type	Status					
2006-08-29 08:46:07.0 (301:302)	rffEiFullBinary (310)	Full Enterprise Investments		Success	73	0	0	0	0
2006-08-29 08:46:07.0 (301:303)	rffEiFullNonBinary (311)	Full Enterprise Investments		Success	68	0	0	0	0

Figure 58: Publishing log

- 2 Review the log as follows:

- Check if the **Status** column displays *Success*. If it displays *Error*, click *Error* to locate the source of your error in the error log.
- Determine if the page icons in the columns to the right display the following numbers:

73	0	0	0	0
68	0	0	0	0

Figure 59: Items published

If the numbers displayed do not match these, either:

- click on *Success* to view the publishing log, or
- click on the entry in the column **Date/Time (Publication ID:Pubstatus ID)** to view the status of individual Content Items published.
- Click on the entry for each column **Date/Time (Publication ID:Pubstatus ID)**. Review each Publication map to determine if individual Content Items published to the expected folders and if they published successfully.

- Click on the filenames or CMS links to see if the Content Items are assembled as expected.

Publication Details			
Filename	Operation	Status	CMS Link
../			
EI_Home.war/			
AboutEnterpriseInvestments/			
active_item469.gif	publish	success	About Enterprise Investments Buttons
active_item482.jpg	publish	success	About Enterprise Investments Section Image (NYSE Papers)
inactive_item469.gif	publish	success	About Enterprise Investments Buttons
inactive_item482.jpg	publish	success	About Enterprise Investments Section Image (NYSE Papers)
item481.jpg	publish	success	About EI HomePage Image (NYSE Papers).jpg
rollover_item469.gif	publish	success	About Enterprise Investments Buttons
rollover_item482.jpg	publish	success	About Enterprise Investments Section Image (NYSE Papers)
Files/			
item489.pdf	publish	success	EI Sample PDF.pdf
item490.doc	publish	success	EI Sample Word Document.doc
Images/			
CreditCard/			
item442.gif	publish	success	EIHomeEquityCreditCard.gif
Funds/			
EIGlobalHealthSciencesFund/			

Figure 60: Publication Map

- 3 Open the Site directory on your local machine. The directory is <Rhythmyx root>\AppServer\server\rx\deploy\EI_Home.war.

The directory should list the following folders and files. Note that some of the folders hold files used for rendering the Web Site.

Name ▲	Size	Type	Date Modified
resources		File Folder	9/5/2006 8:56 AM
WEB-INF		File Folder	9/5/2006 8:56 AM
Images		File Folder	9/7/2006 2:07 PM
AboutEnterpriseInvestments		File Folder	9/7/2006 2:07 PM
Files		File Folder	9/7/2006 2:07 PM
InvestmentAdvice		File Folder	9/7/2006 2:08 PM
MortgagesAndHomeFinance		File Folder	9/7/2006 2:08 PM
ProductsAndServices		File Folder	9/7/2006 2:08 PM
index.html	19 KB	HTML Document	9/7/2006 2:08 PM

Figure 61: Published Enterprise Investments content

The Site folder structure should be similar to that of your Site Folder structure on Content Explorer:

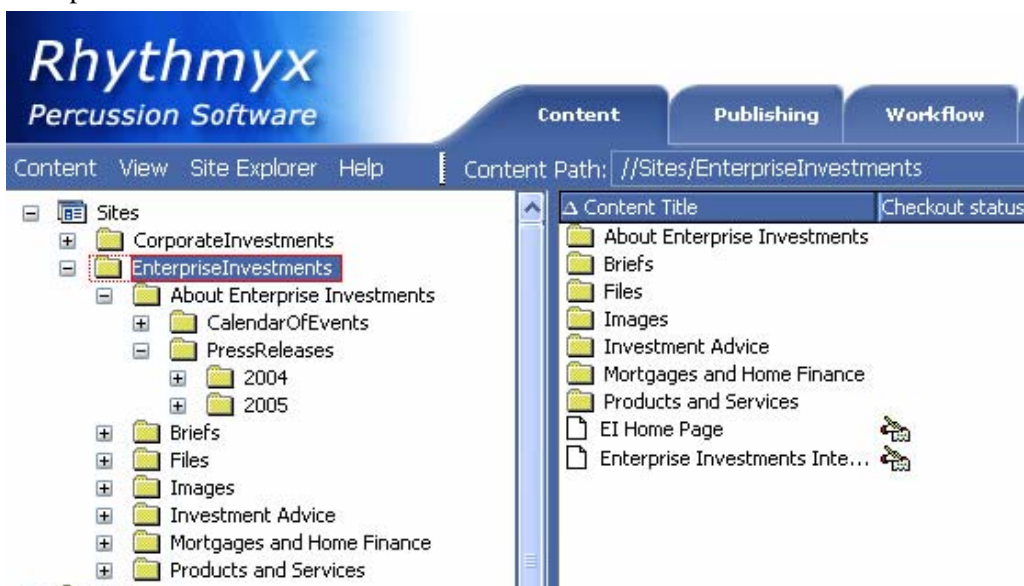


Figure 62: Site Folder Structure in Content Explorer

Open some of the folders and check if the Publisher delivered the expected Content Items to the folders.

- 4 Enter http://localhost:9992/EI_Home/index.html in your browser.

The home page for Enterprise Investments should open:

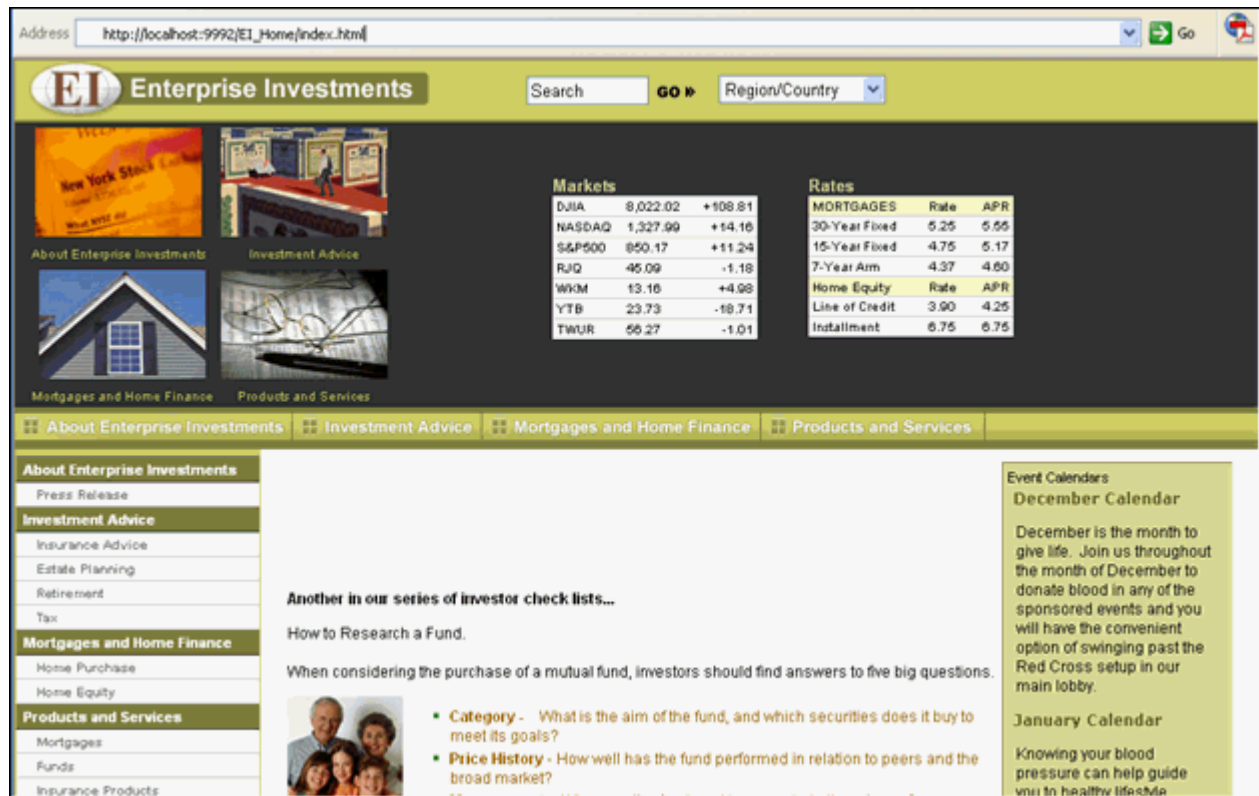


Figure 63: Published Enterprise Investments Generic Page

Browse through the Site to determine if it looks as expected. .

Publishing and Reviewing the Corporate Investments Site

A second sample Site, Corporate Investments, is also provided. To publish this Site, run the Full Corporate Investments Edition. When you review the Publog, you should see the following:

Corporate Investments (303)					Publications by Site				
Date/Time (Publication ID:Pubstatus ID)	Content List	Edition Name	Edition Type	Status					
2006-09-07 14:57:13.0 (331:351)	rffCiFullBinary (325)	Full Corporate Investments		Success	103	0	0	0	0
2006-09-07 14:57:39.0 (331:352)	rffCiFullNonBinary (319)	Full Corporate Investments		Success	63	0	0	0	0

Figure 64: Corporate Investments Publog

The URL for the published Corporate Investments Web Site is:

http://localhost:9992/CI_Home/index.html

CHAPTER 5

A Brief Introduction to Rhythmyx

Before proceeding with the tasks of customizing your Rhythmyx FastForward installation, you should become more familiar with Rhythmyx and its operations. This chapter provides a brief walk-through of the major functionality of the Rhythmyx Content Management System. We will add a several new Content Items to the Enterprise Investments Web site. We will add this content to a new "Education" subsection of the "Investment Advice" section of the Enterprise Investments Web site.

A Brief Introduction to Content Explorer

Begin the walk-through by logging in to Content Explorer.

To access Content Explorer, start your browser and enter the following URL into the address field:

```
http://localhost:9992/Rhythmyx
```

This URL assumes that the server is installed locally and that you are using the default Rhythmyx port. If you are accessing the server from a different machine, replace `localhost` with the name or IP address of that machine. If you chose a different port for Rhythmyx, replace `9992` with your preferred port number. Note too that the URL is case-sensitive, so you must capitalize the "R" in "Rhythmyx." (The case-sensitivity is a characteristic of the underlying Java code used in Rhythmyx.) If you enter the URL using a lowercase "r", Rhythmyx returns a message that A handler could not be found to handle the request for (`/rhythmyx/.xml`).

When you successfully access the server, your browser displays a login dialog. Use the user name *author1* and the password *demo* to log in to Content Explorer. (The user "author1" is a default user provided by Percussion Software that has authorship rights in Content Explorer.)

Content Explorer uses a Java applet. When installing the applet, your browser displays a security dialog. Click the [Yes] button to allow the applet to install on your browser.

When the applet finishes loading, your browser displays the Content Explorer window:

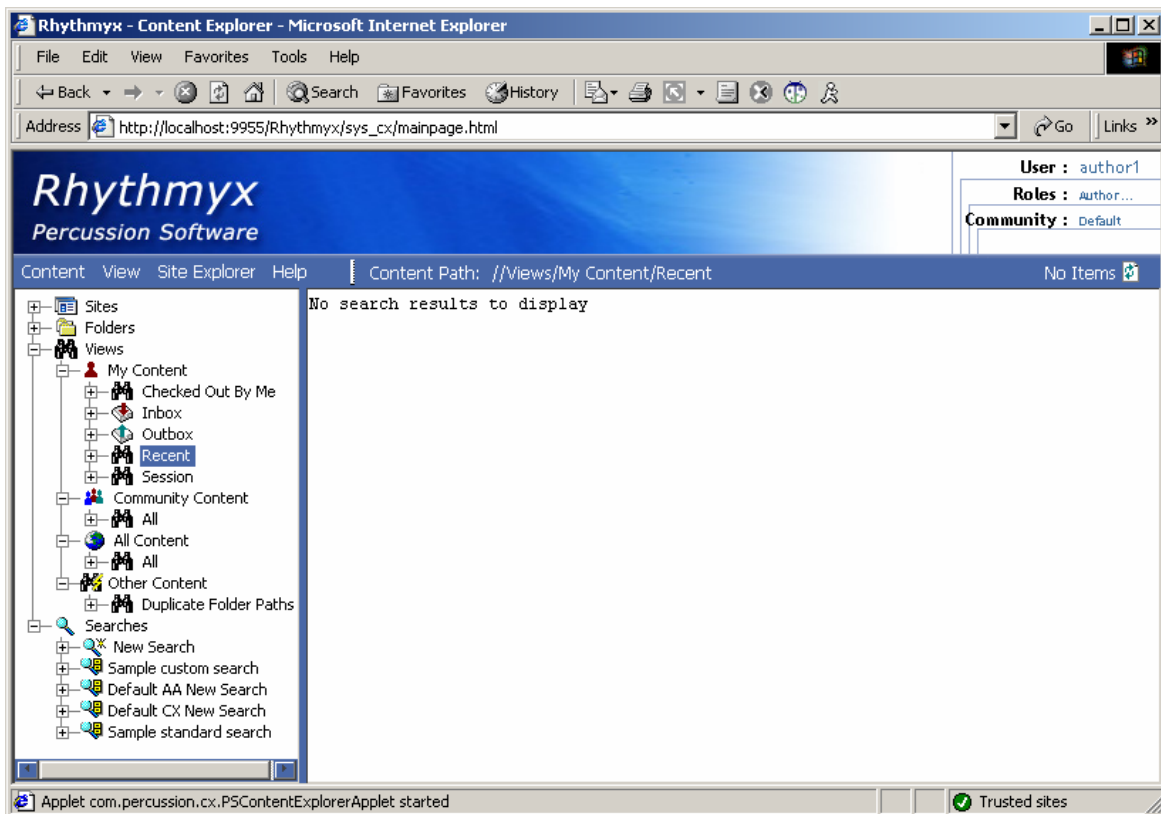


Figure 65: Content Explorer when you first log in

Content Explorer consists of four sections:

- the banner
- the navigation pane
- the content pane
- the menu bar.

The Content Explorer Banner

The banner consists of the Rhythmyx logo, the Logout button, and the login information at the far right.



Figure 66: Rhythmyx Banner

The login information consists of three pieces of data:

- User: The name of the user logged in to the system, in this case, author1
- Roles: The Roles into which the logged in user has been authenticated. If you hover your mouse over the value of the Roles field, Rhythmyx displays a popup listing all of the Roles into which the user has been authenticated. The value of the Roles field is also a link. You can click on this link to display a popup window with the user's list of Roles as well. The graphics below illustrate both options:

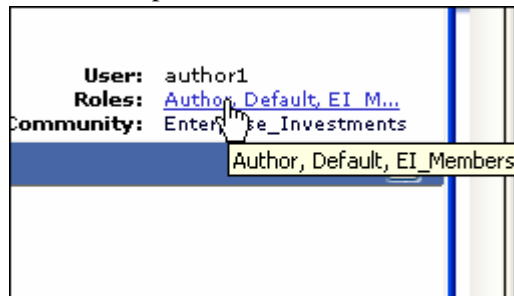


Figure 67: List of user's Roles

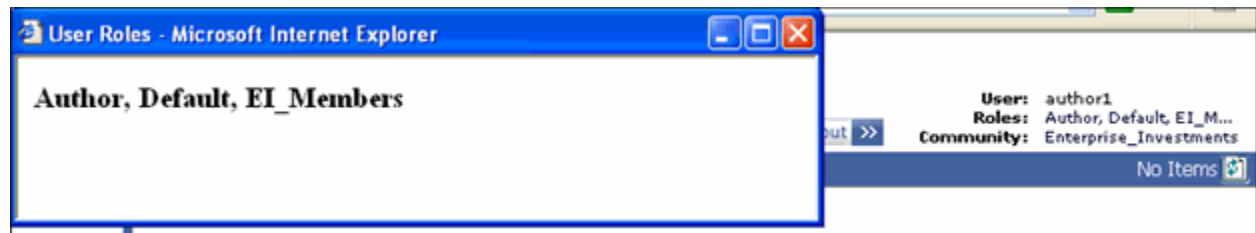


Figure 68: Popup with Roles

- Community: The Rhythmyx Community into which the user is currently logged. The author1 user is initially logged in to the Enterprise Investments Community, as illustrated in the screenshot above.

The Navigation Pane

The Navigation Pane provides you with options for locating and organizing Content Items.

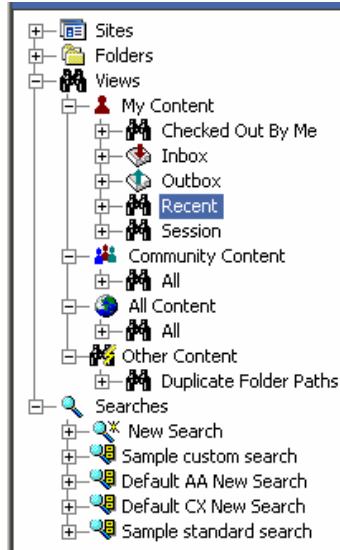


Figure 69: The Content Explorer Navigation Pane as displayed when first accessed

The Navigation Pane consists of four main Nodes:

- The Sites node is used to define Site structures and to assign Content Items to those Sites. When Rhythmyx publishes the content, it creates a directory structure on the target Web server identical to the structure you define under this node. Published pages are output to the directory parallel to the Content Explorer Site Folder to which they have been assigned.
- The Folders node consists of Folders used strictly to organize Content Items. The folder structures created under this node are not used in Publishing but for personalized organization.
- The Views node consists of a set of pre-defined queries that return lists of content. View fall into four categories.
 - My Content Views

This category is the richest set of default Views. Views in this category list Content Items checked out to the logged user, Content Items assigned to the logged user, Content Items the user has worked on recently, and Content Items created by the user.
 - Community Content Views

This category consists of Views that list Content Items only in the current Community of the user.
 - All Content Views

This category consists of Views that can list all Content Items in the system, regardless of their Community or current Workflow State.
 - Other Content Views

This generic category consists of Views that do not fit in any of the other categories.

- The Searches node consists of the New Search query and several pre-defined search queries. Searches are somewhat simpler than Views. Views can query based on system data not available to searches.

For more details about any of these nodes, see the Content Explorer Help, which you can access by choosing *Help > Content Explorer* from the Menu Bar.

The Content Pane

The larger area to the right on the Content Explorer is the Content Pane.

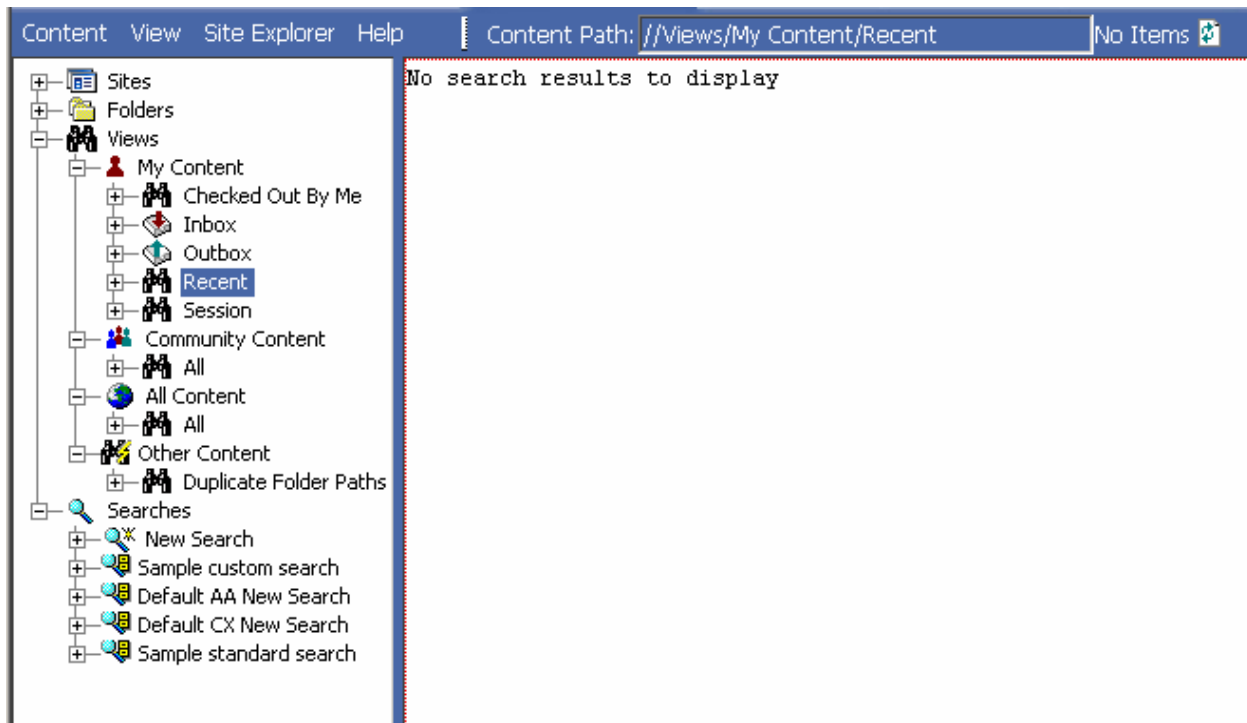


Figure 70: Content Pane as displayed when you first log in to Content Explorer

When you initially log in to Content Explorer, the default navigation selection is always the Recent View. Since you have not logged in before and have not worked with any Content Items to this point, this View has no results, as illustrated in the graphic above, which shows the text "No search results to display".

Expand the Sites node, and select the Enterprise Investments Folder. Now the Content Pane lists the contents of this Folder. This Folder includes a number of Subfolders (such as About Enterprise Investments, Investment Advice, and Products and Services) and a couple of Content Items (EI Home Page and Enterprise Investments Internet Root).

The Menu Bar

The Menu bar separates the banner from the Navigation and Content Panes.

The Menu bar consists of four menu options and the Content Path. The Content Path lists the Navigation path to the object currently selected in the Navigation Pane.

The following Menu options are available:

- Content

The Content Menu consists of options for managing Content. This menu includes three options:

- New

The New Menu consists of two submenus: New Item and Folder. The Folder option is only available if you are in either the Site or the Folder node, or a Subfolder of one of these nodes. The Folder option allows you to create a new Folder. The New Item option lists all Content Types for which the current user has access to create a new Content Item.

- Search

This option launches a new Search.

- <Site Name>

This option is only available if you have selected a Site Folder or a Subfolder. The name of this option is always the name of the Site node for the Folder you have selected. Submenu options available from this choice include options for changing the Display Format used in the Content Pane, options for creating new Content Items, and Access to the Folder Properties dialog so you can maintain the Properties of the Site (root) Folder.

- View

The View Menu includes two choices. The Refresh option refreshes Content Explorer. The Options choice activates the Display Options dialog, where you can modify the display settings for Content Explorer.

- Site Explorer

The Site Explorer menu option launches the Active Assembly interface in a new window. This interface allows you to browse through content as if it were published to a live Site. All Content Items are available through Active Assembly, regardless of whether or not they are eligible to be Published.

- Help

The Help Menu includes two options. The Content Explorer option activates the Content Explorer Help. The About option activates the About Content Explorer dialog.

Creating Content Items

Content Items are the basic units of content in Rhythmyx. A Content Item is usually a portion of a page, such as a block of text, an image, or a banner, header, or footer. In some cases, such as home pages, a Content Item may be a complete page, but more commonly, a Content Item is a portion of a page.

By defining content in such a granular manner, Rhythmyx provides users greater control over the content. You can use the same Content Item in multiple ways on different pages. Further, if editing is necessary, you only need to change the Content Item that needs to be modified, and do not disturb other parts of the page.

Creating a Generic Page Content Item

Let us begin by creating a simple Generic Page Content Item.

You should always create new Content Items in a Folder so you can find them easily. Rhythmyx does not require you to be in a Folder when you create a Content Item, but if you do not create the Content Item in a Folder, you will need to search for it or use a View to find it. We will create our Content Item in a Site Folder.

In the Navigation pane, expand the Sites node, and select the Enterprise Investments Site Folder. Notice that when you select this Folder, the contents of the Folder are displayed in the Content Pane. Double-click on the "About Enterprise Investments" Folder. We will create our new Content Item in this Folder for now.

Percussion Software provides the content for this new Content Item, and several others we recommend that you create in the course of this walk-through. The content is provided in a set of .txt files in the <Rhythmyxroot>/Samples/ffsamples directory. If your Rhythmyx server is on a remote machine, you may want to copy the contents of this directory to your local machine. We are going to use the tuition.txt file to provide the content for our example Content Item. Open this text file in a simple text editor such as Notepad.

To create your new Generic Page Content Item:

- 1 In the Menu bar, choose *Content > New > New Item > Generic*.

Rhythmyx pops up a blank Generic Page Content Editor:

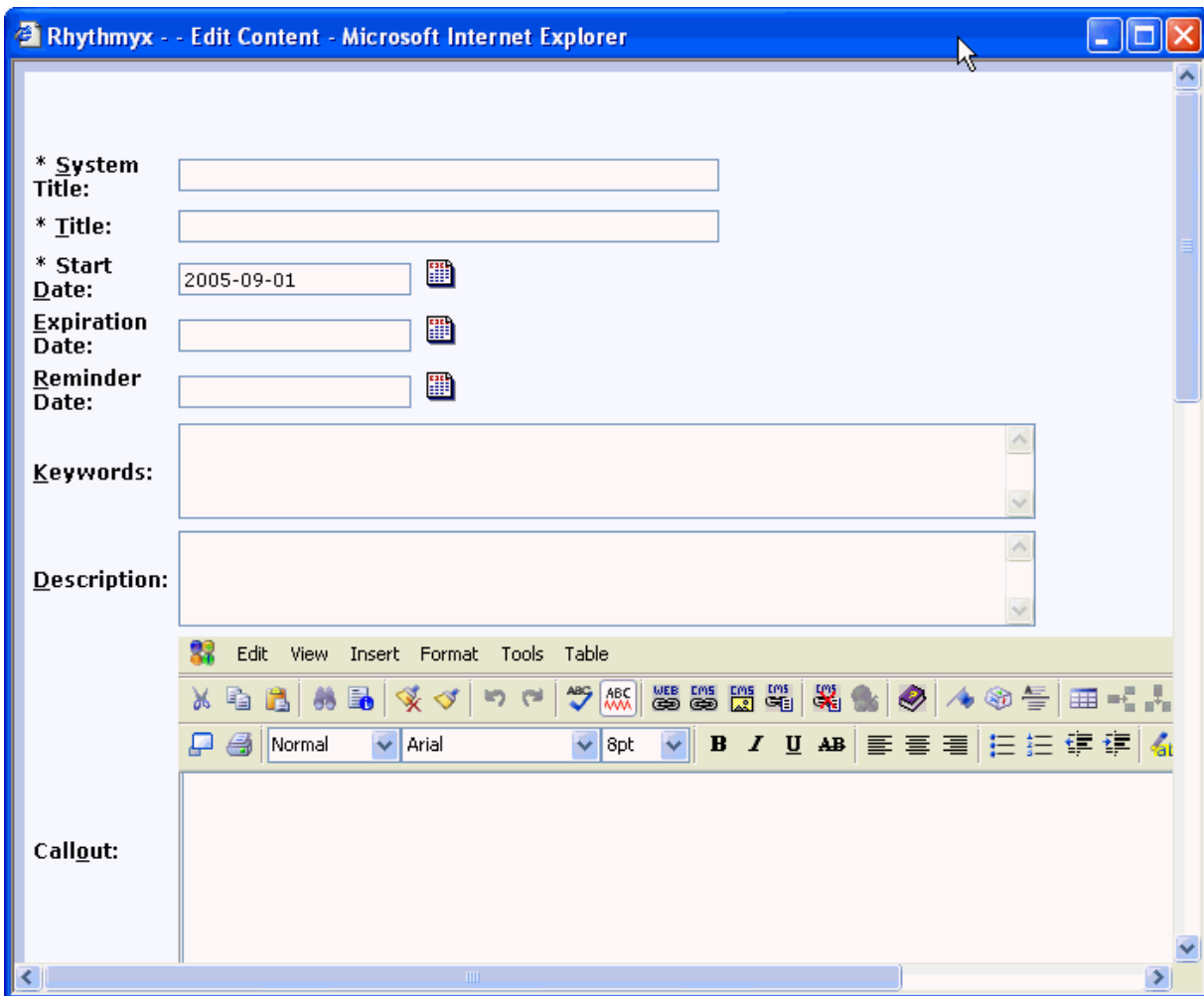


Figure 71: Generic Content Editor

- 2 Change to the Tuition.txt file, and copy the first line. Change back to Content Editor and paste this text in the System Title field. Paste it again into the Title field.
- 3 Note that the Start Date defaults to the current date. Do not change the value in this field.
- 4 Change to the Tuition.txt file and copy the second line. Change back to the Content Editor and paste this text into the Description field.
- 5 Change to the Tuition.txt file and copy the third line. Change back to the Content Editor and paste this text into the Callout field.
- 6 Change to the Tuition.txt file and copy the text from the beginning of the third line to the end of the file. Change back to the Content Editor and paste this text into the Body field.
- 7 Click the **[Insert]** button. You will be briefly redirected to a page asking you to wait a moment while your Content Item is uploaded to the repository, then redirected again the Content Editor.

You have just added a new Content Item to the Rhythmyx Repository.

Near the bottom of the window the Content Editor now includes a set of links you can use to preview different formatted outputs of the Content Item. For example, if you click the P - EI Generic link, Rhythmyx displays a window similar to this:

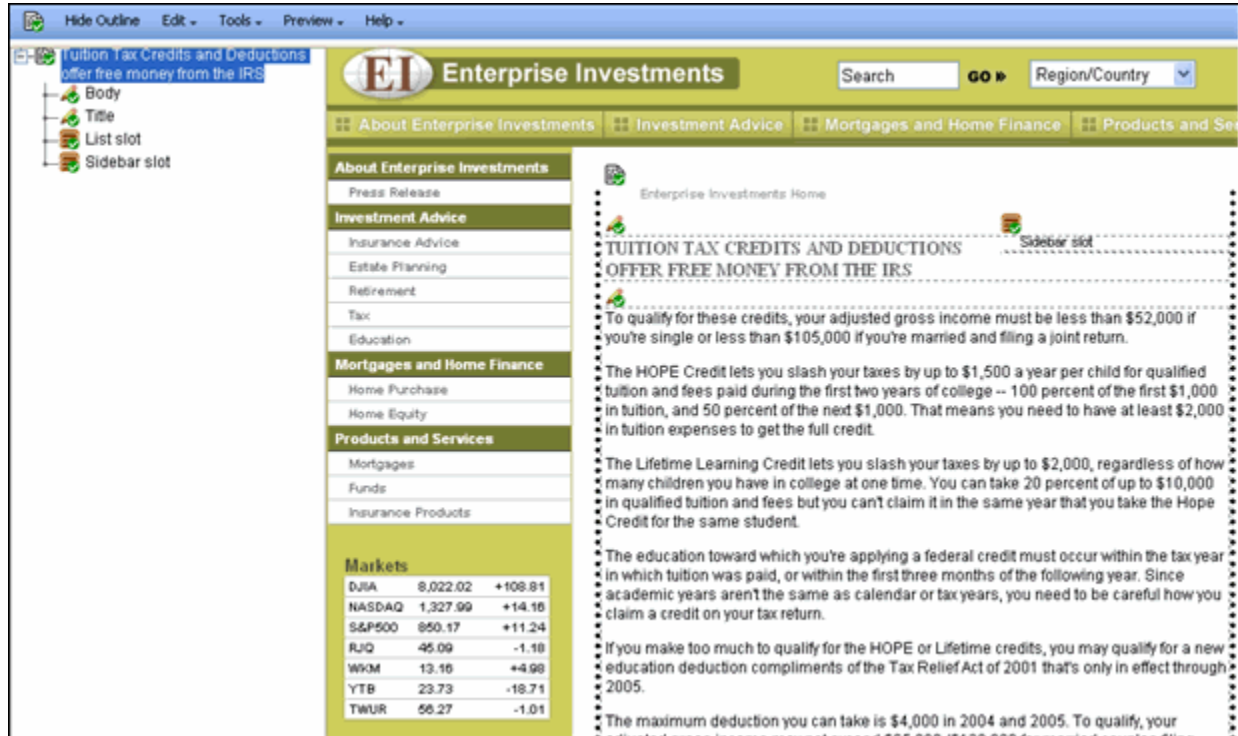


Figure 72: Generic Content Item FF

This page illustrates how the Content Item would look as a published Web page.

If you click the S - Title Callout Link, you see a window similar to this:

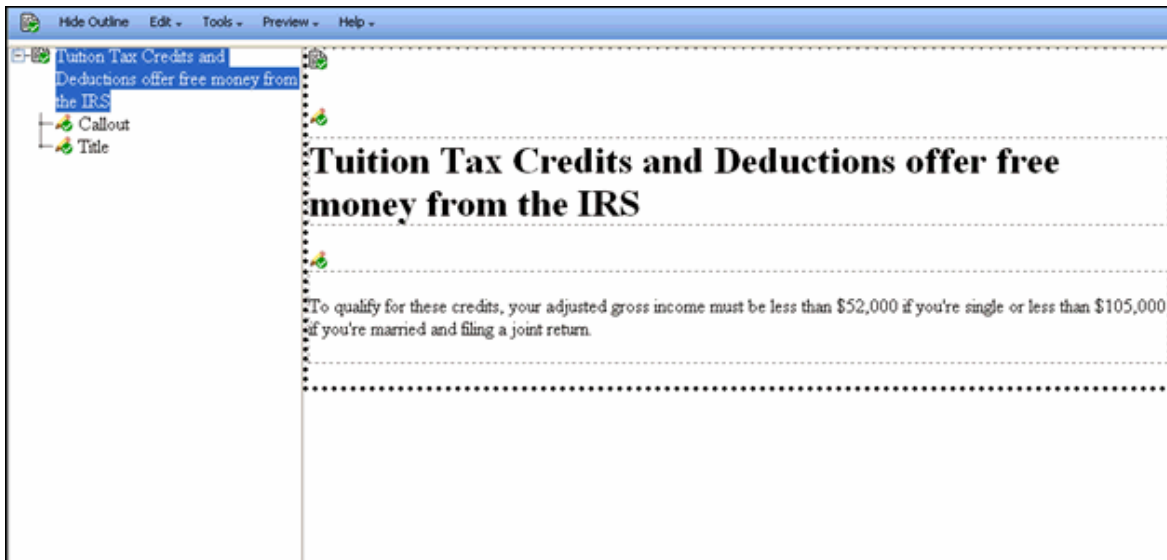


Figure 73: S - Title Callout Link

Both links launched the item in Active Assembly. Active Assembly consists of a two-panel interface that lets you actively edit content items directly on the page. For more detailed information on Active Assembly, see the *Active Assembly Interface Help*.

Once finished reviewing the formats available for the new Content Item, click the [**Close**] button to close the Content Editor. Note that the new Content Item, "Tuition Tax Credits and Deductions Offer Free Money from the IRS" has been added to the Enterprise Investments Folder.

Creating a Generic Word Content Item

Rhythmyx has been designed with enough flexibility that you can connect to third-party tools as Content Editors. One of the most common tools used for creating content is Microsoft Word word processor. The Generic Word Content Type provides the option of entering and maintaining Content Items using Microsoft Word. We will enter Content from the sample Content File SavingForCollege.txt. You should still be in the Enterprise Investments/About Enterprise Investments Folder to create this Content Item

Note that before you can launch Word from Rhythmyx, you must update your security options. In Internet Explorer choose Tools > Internet Options and click the Security tab:

- make your Rhythmyx server a trusted site (Click the [**Sites....**] button then the [**Advanced**] button. In the Add this web site to the zone... dialog, enter *http://localhost* (or the name or IP address of the remote machine where your Rhythmyx server resides) and click [**Add**]. Click [**OK**] twice to return to the Security tab.
- click the [**Custom level...**] button and on the Security Settings dialog, find the Download signed ActiveX controls entry. Select either **Enable** or **Prompt** for this option.

To create a Generic Word Content Item:


- 1 In the Menu bar, choose *Content > New > New Item > Generic Word*.

The Generic Word Content Editor uses an ActiveX control to launch Microsoft Word. Percussion Software has signed that this ActiveX control is safe, so click the [**Yes**] button when asked whether you want to run the control. After you click [**Yes**], Rhythmyx pops up a blank Generic Page Content Editor.

- 2 Change to the SavingForCollege.txt file, and copy the first line. Return to the Content Editor and paste the first line into the **System Title** field.
- 3 Change to the SavingForCollege.txt file and copy the second line. Return to the Content Editor and paste this text into the **Callout** field.
- 4 Click the Launch Word link.

Rhythmyx launches Microsoft Word. Content editing using Microsoft Word requires the use of Word Styles to mimic fields in Rhythmyx. These styles are stored in the GenericWord template. The template includes Word macros that convert the styles into Rhythmyx fields during the upload process. You can implement your own Word-based Content Editors. For details see the document *Implementing Word in Rhythmyx*.

- 5 Change to the SavingForCollege.txt file, and copy the first line again. Switch to the instance of Word and paste it. Notice that the Style for this paragraph is PageDisplayTitle. The content of this paragraph will be entered into that field in the Repository.
- 6 Hit the <Enter> key on your keyboard. The new paragraph has the Style PageAuthor. In the Style drop list in Word, choose the style PageBody

- 7 Change to the SavingForCollege.txt file and copy from the beginning of the second line through the end. Past this text into the Word document.
- 8 In the Word button bar, click the Save to Rhythmyx button .
- 9 Word displays a File Name dialog. Enter the text *SavingForCollege*.
- 10 Word displays a confirmation dialog:

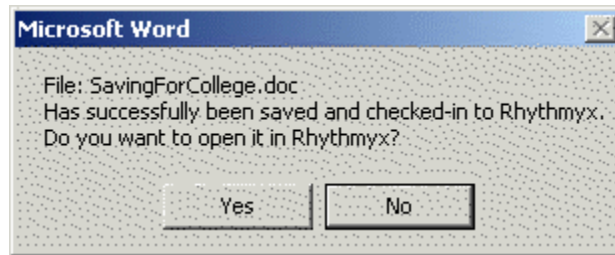


Figure 74: Confirmation dialog displayed when you have successfully uploaded your Content Item into Word

- 11 Click the [Yes] button. You will return to Rhythmyx, with the Saving For College Content Item displayed in the Content Pane. The Content Item is located as the result of a background search; if you do not see it, click the Search Results node in the left pane.
- 12 Right-click on the Saving For College Content Item and choose *Edit* from the popup menu. Rhythmyx displays the Saving For College Content Editor.
- 13 Again, at the bottom of the Content Editor, you will find links for viewing this Content Item in Active Assembly in different formats. Click on these links to view the formats available for the Content Item.
- 14 When you have finished, click the [Close] button.

Creating an Image Content Item

Image Content Items are used to manage graphics used as content on Web pages.

Note that some graphics are used within the page layout itself. Examples include company logos and spacers used to define page layout. These graphics, which are referred to as *static images*, are not managed by Rhythmyx, but reside on the Web server so they can be included in the Published pages.

Content images, however, are managed as Content Items of the Image Content Type. Once an Image Content Item exists in the system, you can use it in any Slot that allows Image Content Types.

An example graphic (moneyroll.jpg) is included in the FastForward sample directory. If you are connecting to your Rhythmyx server from a remote machine, you might want to copy this file to your local machine.

To create the Image Content Item:

- 1 In the Navigation Pane, expand the Enterprise Investments Site Folder, then expand the Images Site Folder. Double-click on the People Folder.
- 2 In the Menu bar, choose *Content > New > New Item > Image*.

Rhythmyx displays the Image Content Editor.

* System Title:

* Title:

* Start Date:

Expiration Date:

Reminder Date:

Description:

* Image:

Image File Name:

Image Mime Type:

Image Height:

Image Width:

Image Alt Text:

Image Category:

Figure 75: Image Content Editor

- 3 In the System Title and Title fields, enter *Money Roll*.
- 4 Click the **[Browse]** button next to the Image field.
Rhythmyx displays a browse dialog.
- 5 Browse to the <Rhythmyxroot>/Samples/ffsamples directory, select the file *moneyroll.jpg* and click the **[Open]** button.
Rhythmyx adds the path and filename you specified (for example, C:\Rhythmyx\Samples\ffsamples\moneyroll.jpg).
- 6 On the Content Editor window, click the **[Insert]** button.

- 7 Rhythmyx uploads the file and refreshes the Content Editor window. Once the window has refreshed, the read-only fields **Image File Name**, **Image Mime Type**, **Height**, and **Width** include data.
- 8 Click the **[Close]** button to close the Content Editor
- 9 The new Money Roll Image Content Item has been added to the Folder.

Two additional sample image files are included in the FastForward Samples directory, `Girllookingatcamera.jpg` and `taxandglasses.jpg`. Add these as Image Content Items to the same Folder.

Working with Site Folders

As discussed earlier, Folders are the fundamental mechanism Rhythmyx provides for users to organize and navigate content. Folders in Rhythmyx are similar to Folders in Microsoft Windows. The major difference is that the folders in Windows are physical directories on the file system. Files in a folder in Windows are physically located in that Folder.

In Rhythmyx, Folders define virtual locations you can use to organize and navigate content. The Content always exists in the Repository, not in the Folders. The Folders merely contain pointers to the physical Content Items stored in the Repository.

The Navigation Pane includes two roots that contain Folders. The Sites Root is used to define Site structures. When you publish a Site, Rhythmyx creates a directory structure on the target server parallel to the Site Folder structure you have defined under this node. Note that you can create a several Sites under this node, each of which can be published separately. The Folders Root contains Folders that are used more generically for organization. The Folders under this root are not published.

Otherwise, Folders function identically regardless of the root to which they belong.

Creating the Education Folder

We want to create a new subsection (Education) for the Investment Advice section of our Web site. This section will require a new directory to store the Web pages for the new section. In Rhythmyx, we create the new section, and the new directory, by creating a new Folder.

To create the new Education Folder:

- 1 In the Navigation Pane, expand the Enterprise Investments node, and select the Investment Advice node.
- 2 In the Menu bar, choose *Content > New > Folder*.

Rhythmyx displays the Create Folder dialog.

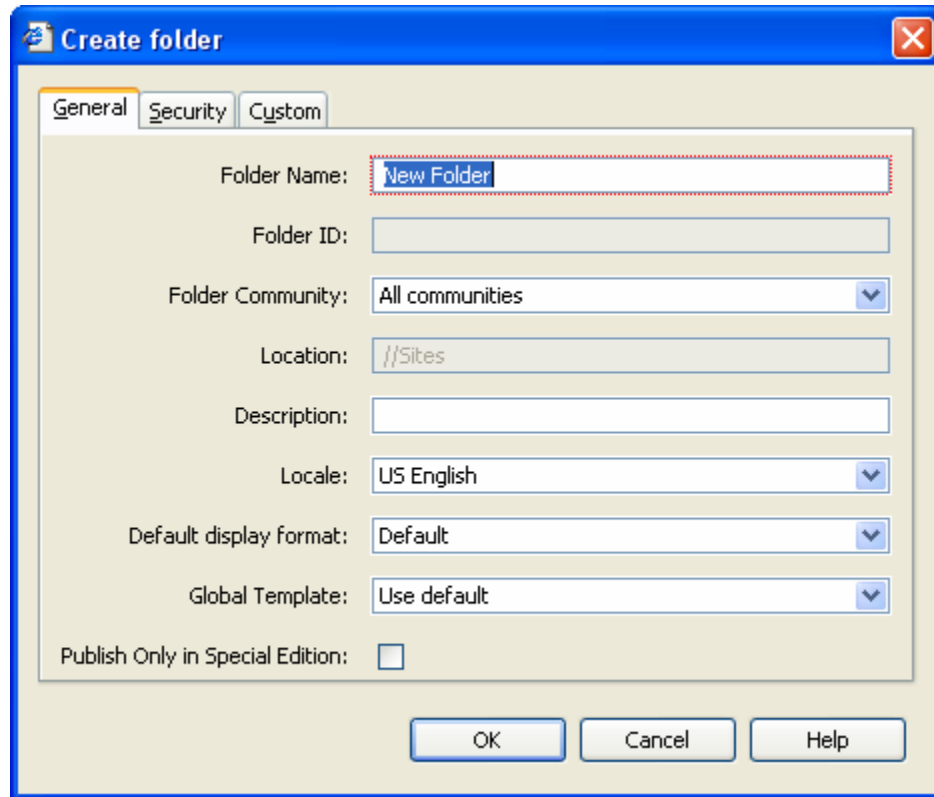


Figure 76: Create folder dialog

- 3 In the Folder Name field, enter *Education*. You can enter a free-form Description if you wish, but that is not necessary. Leave the defaults in all other fields.
- 4 Click the [OK] button.

Rhythmyx adds the new Folder under Investment Advice.

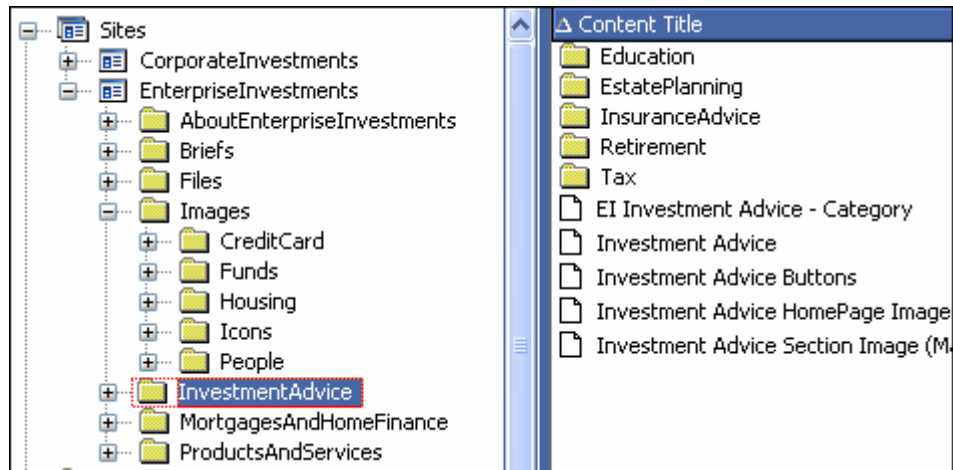


Figure 77: New Folder

Double-click on the Education Folder. Rhythmyx displays the contents of the Folder in the Content Pane. Notice that this Folder already has a Content Item, Education, of the Navon Content Type. This Content Item is created automatically by the Managed Navigation functionality. It is used to generate navigation for the Web site automatically when it is published. For more about Managed Navigation see *Maintaining Managed Navigation for the Education Folder* (on page 94) and Sites and Managed Navigation.

Moving Content into the Education Folder

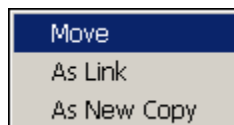
Since Web pages are published to the directory corresponding to the Site Folder in which they are located, we want to move the Content Items we previously created into the new Folder.

Let us move the Tuition Content Item first. To move the Tuition Content Item:

- 1 Select the EnterpriseInvestments Folder.
- 2 In the Navigation Pane, select the About Enterprise Investments Folder so you can see its contents in the Content Pane.
- 3 In the Content Pane select the Tuition Content Item, and drag it to the InvestmentAdvice/Education Folder (as you drag the Content Item, you will notice a small dotted square below the mouse pointer; this square indicates that you are dragging the Content Item).
- 4 Place the mouse pointer over the Education Folder and release.

Rhythmyx pops up a dialog with the following options:

- Move
- As Link
- As New Copy



- 5 Select the *Move* option.

The Tuition Content Item is removed from the Content Pane.

- 6 Select the Education Folder. The Tuition Content Item has been moved to the new location.

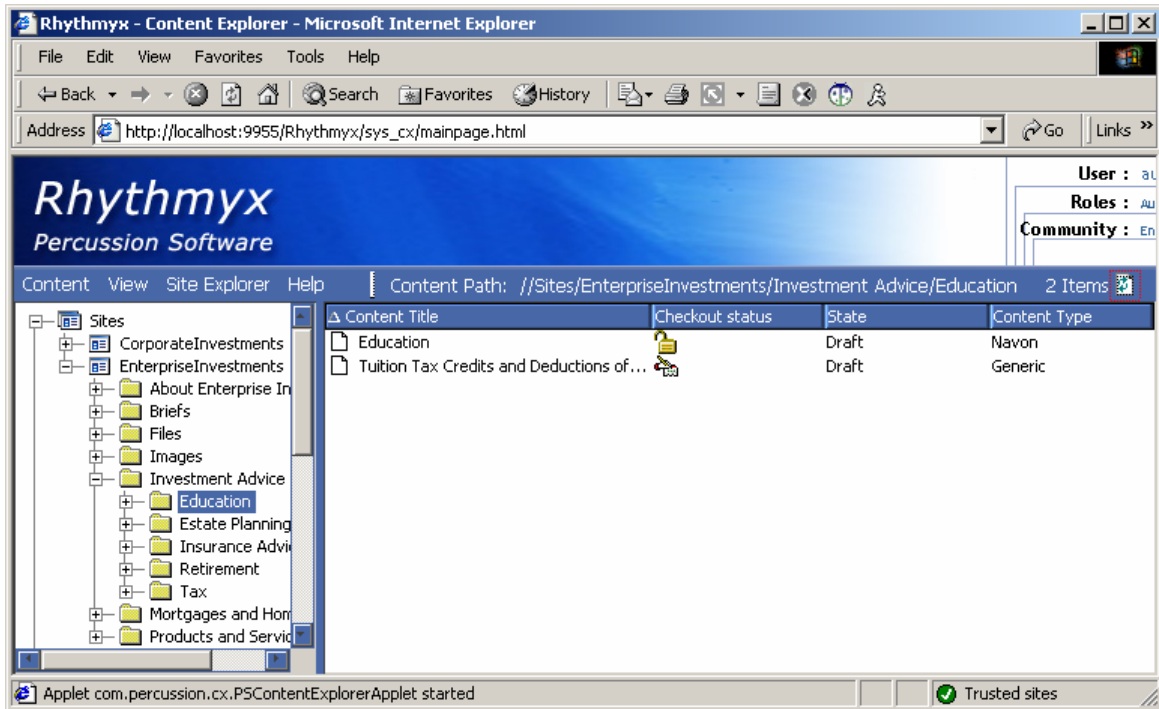


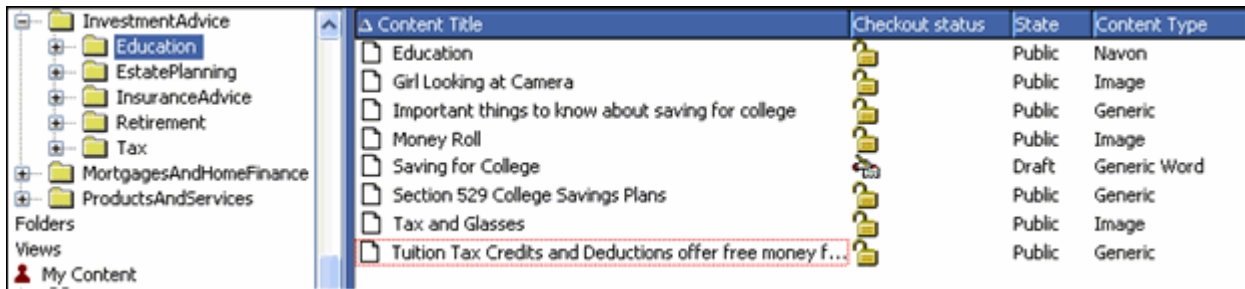
Figure 78: Content Explorer showing the Education Folder with the Tuition Content Item

- 7 Use the same procedure to move the Saving for College Generic Word Content Item into the Education folder.
- 8 Now go into the EnterpriseInvestments/Images/People folder and move the Money Roll, Girl Looking at Camera, and Tax and Glasses Content Items into the Education Folder.

Adding Additional Content to the Education Folder

Two additional sample txt files, TenThingstoknow.txt and Section529Plans.txt are included in the Samples directory. Use these to create two more Generic Page Content Items, "Important Things to Know About Saving for College" and "Section 529" Plans in the Education Folder.

When you have created these Content Items, the Education Folder should resemble the following screenshot:



The screenshot shows the Rhythmyx interface with the 'Education' folder selected in the left-hand navigation pane. The main content area displays a list of content items with columns for 'Content Title', 'Checkout status', 'State', and 'Content Type'. The 'Tuition Tax Credits and Deductions offer free money f...' item is highlighted with a red box.

Content Title	Checkout status	State	Content Type
Education		Public	Navon
Girl Looking at Camera		Public	Image
Important things to know about saving for college		Public	Generic
Money Roll		Public	Image
Saving for College		Draft	Generic Word
Section 529 College Savings Plans		Public	Generic
Tax and Glasses		Public	Image
Tuition Tax Credits and Deductions offer free money f...		Public	Generic

Figure 79: Education Folder

Active Assembly

Now that we have some Content Items, we want to create links between them. In Rhythmyx, the process of creating these links is called *Active Assembly*. When you use Active Assembly to link one Content Item to another, you are creating an *Active Assembly Relationship* between the two Content Items.

Active Assembly Relationships are one category of associations between Content Items. Rhythmyx provides the ability to create a variety of associations between Content Items. Collectively, these associations are known as Relationships. For more details about Relationships in general, see *Implementing the Relationship Engine*.

An Active Assembly Relationship defines how one Content Item (referred to as the Dependent) will be included in another Content Item (which is called the Owner because it owns the Relationship) when the content is published. Active Assembly is used for one of two reasons:

- to embed one Content Item into another (typically used for graphics, but occasionally also used to embed text from one Content Item into another);
- to create a link from one Content Item to another (such as a hypertext link between two pages, or call to a binary file to be displayed to the user).

We will perform both types of Active Assembly, adding links between the pages we created and adding images to the pages.

Adding Links to Other Generic Pages in the Sidebar Slot

On the P - EI Generic Template, the Sidebar Slot is used to create links to other Content Items that contain content related to the topic on the current page. Let's create a link from the Tuition Content Item to the other new Education Content Items we created.

To create related content in the Sidebar Slot:

- 1 In the Navigation Pane, select the Education Folder.
- 2 Right-click on the Tuition Content Item and choose *Edit* from the popup menu.
Rhythmyx displays the Tuition Content Editor.
- 3 Scroll to the bottom of the Content Editor and click on the P - EI Generic link.

Rhythmyx displays the P - EI Generic format of the Tuition Content Item in the Active Assembly Interface.

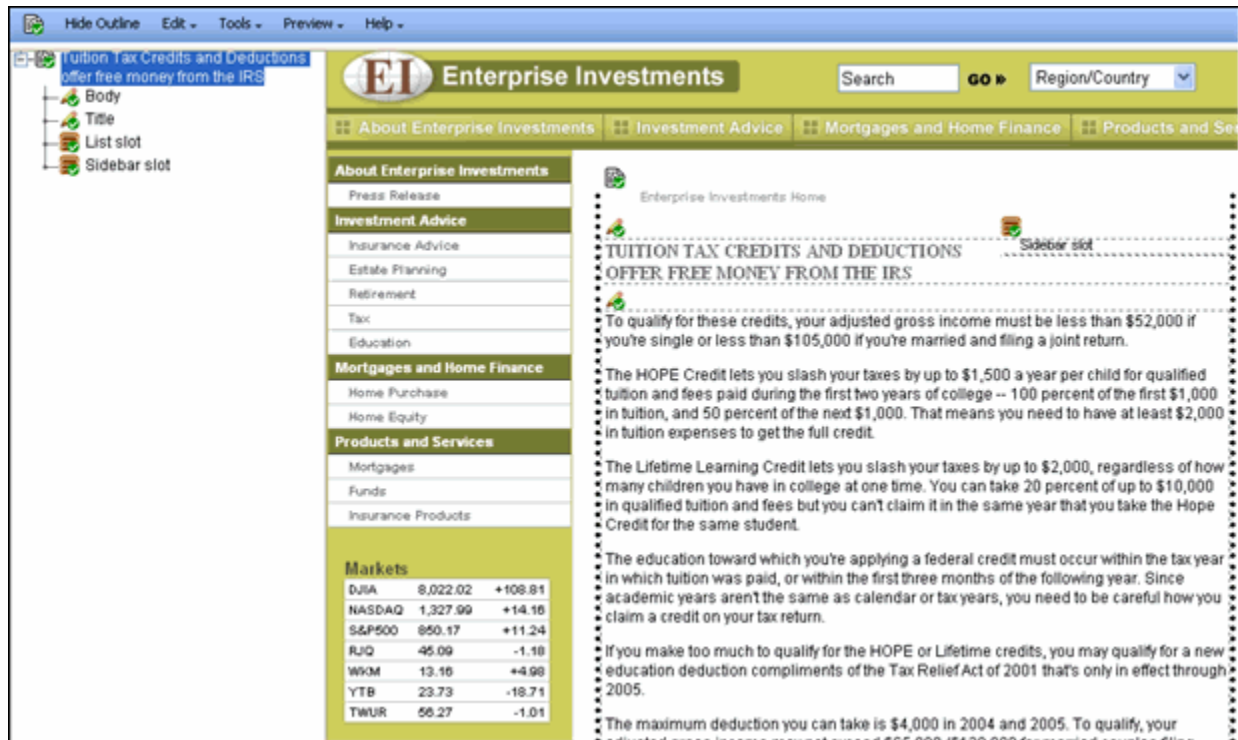



Figure 80: Adding Links to Generic Pages

In Active Assembly, you can modify the Snippets (related content) in the Slots on this Template.

- 4 Find the Sidebar Slot, and right-click the  icon, and choose *Add Snippet* from the drop menu.

Rhythmyx displays the Content Browser.

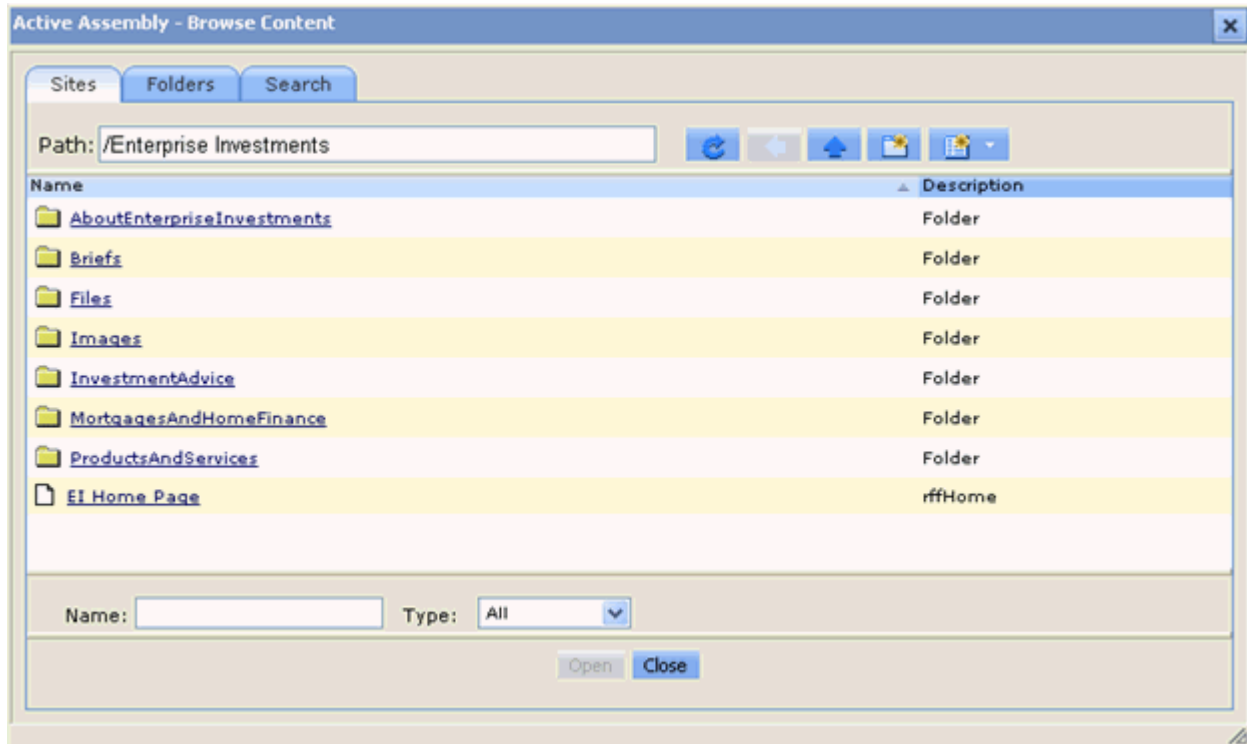


Figure 81: Content Browser

- 5 Click the Search tab.

Two versions of this tab are available. If you installed the full-text search engine, you will see:

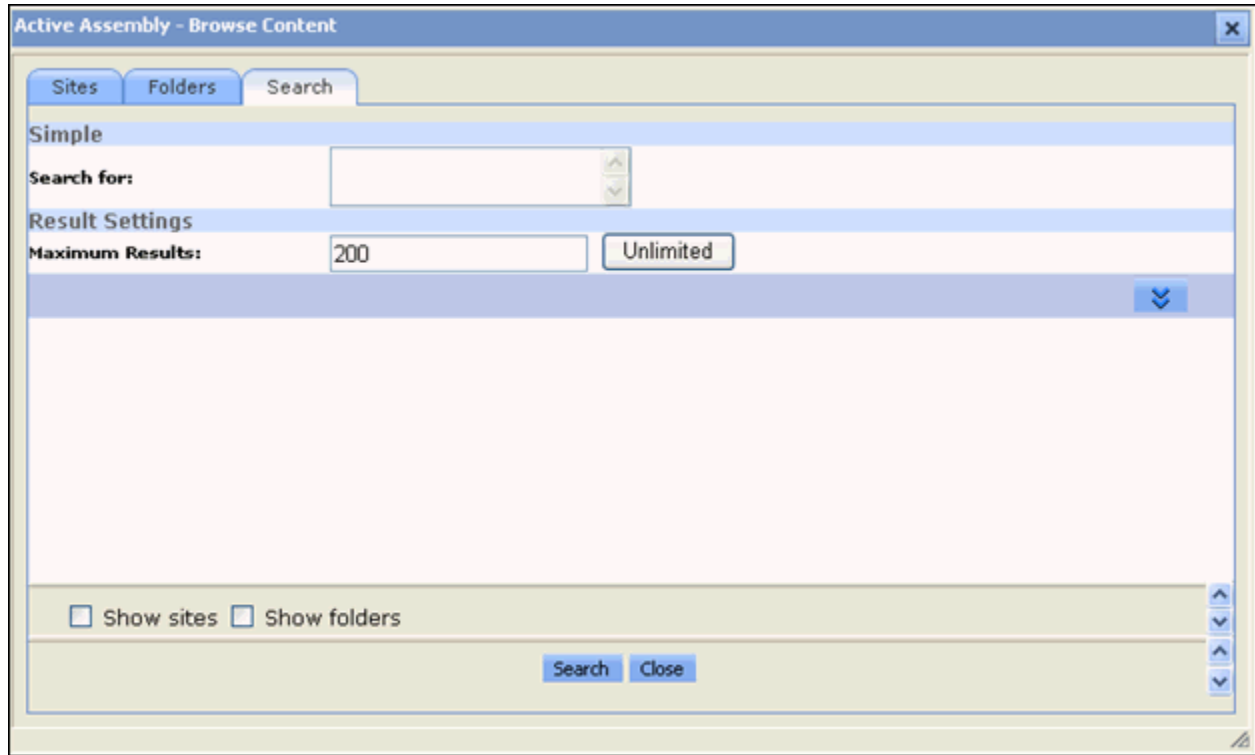


Figure 82: Content Browser, Search Tab

If you did not install the full-text search engine, your system uses the database search engine, and you will see:

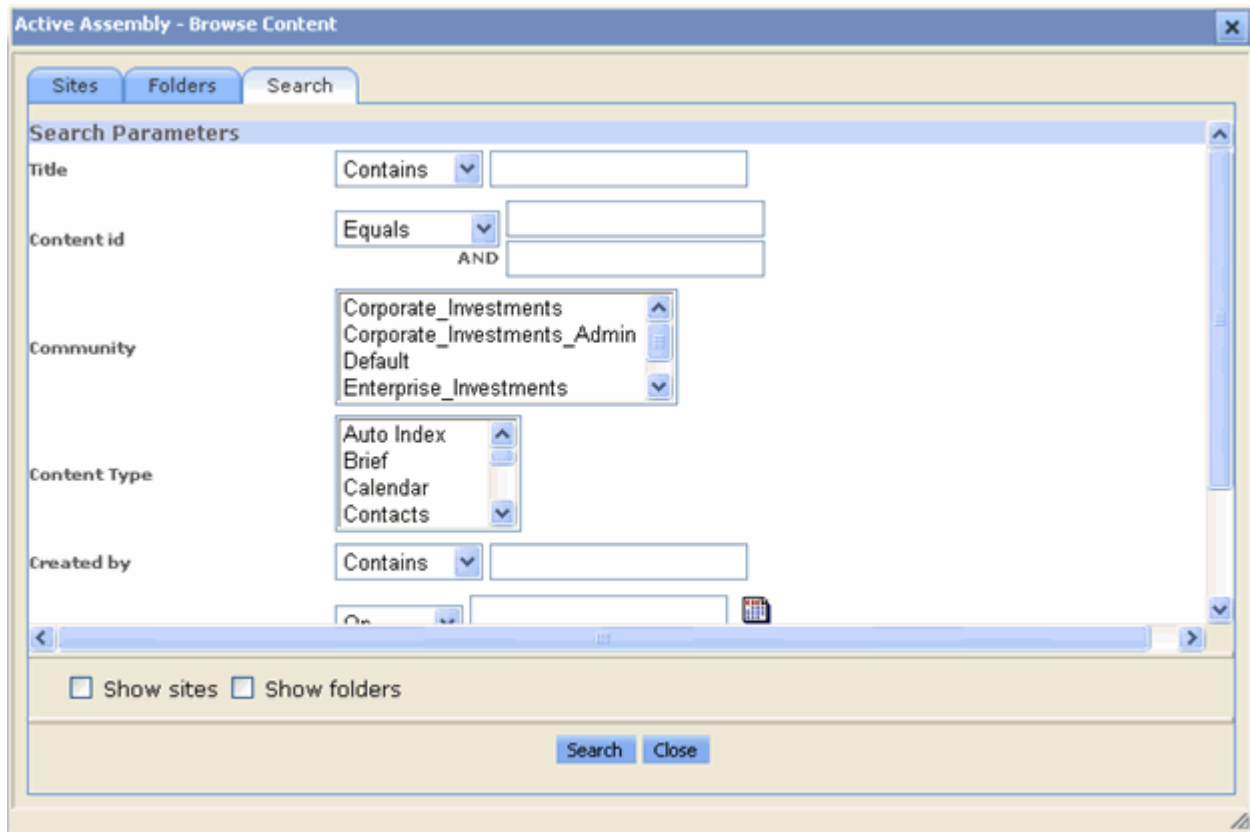


Figure 83: Content Browser, Search tab

- 6 If you have the Full-text Search engine, enter *college* into the Search for field. If you have the database search engine, enter *college* into the Title field. Click the [Search] button.

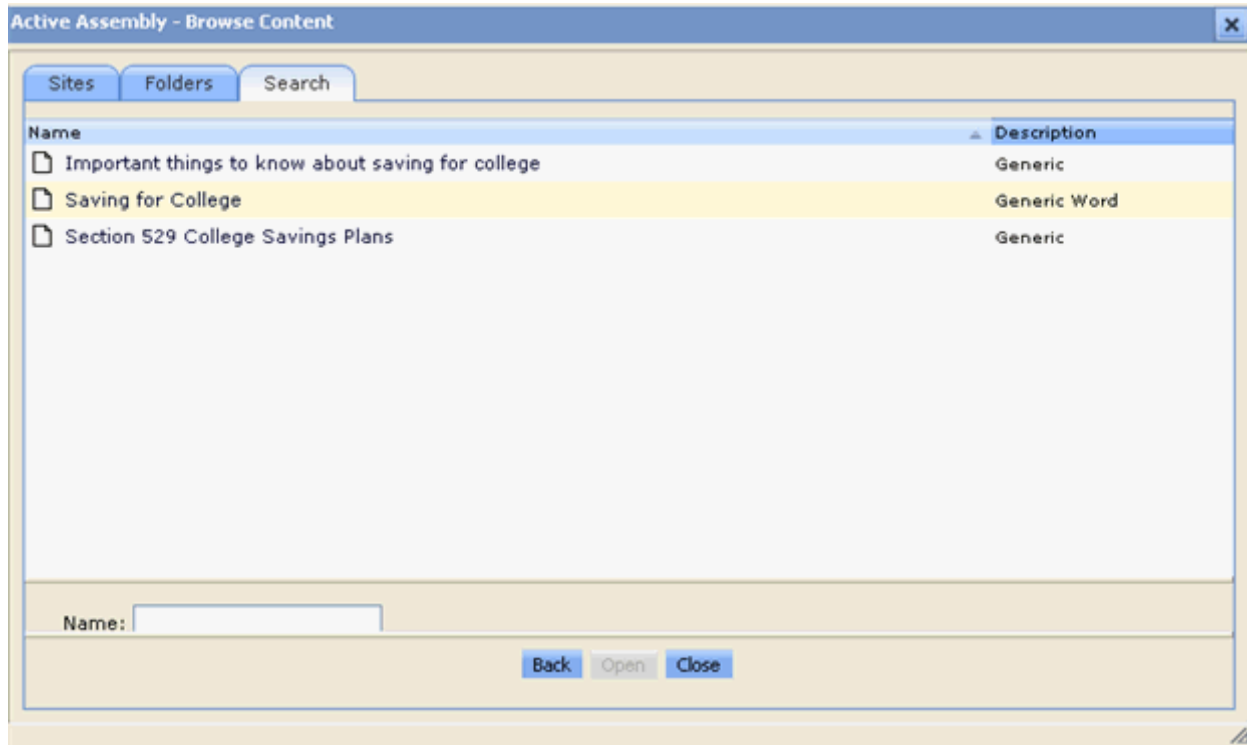
7 Rhythmyx returns the Search results:

Figure 84: Search results

- 8** We want to insert the *Section 529 College Savings Plans* content item, so we click it. A page that lets us choose the Template or format for the content item opens. It lists five Templates with which we can format the item:

- S - Callout
- S - Image Link
- S - Title Callout and More Link
- S - Title Callout Link
- S - Title Link

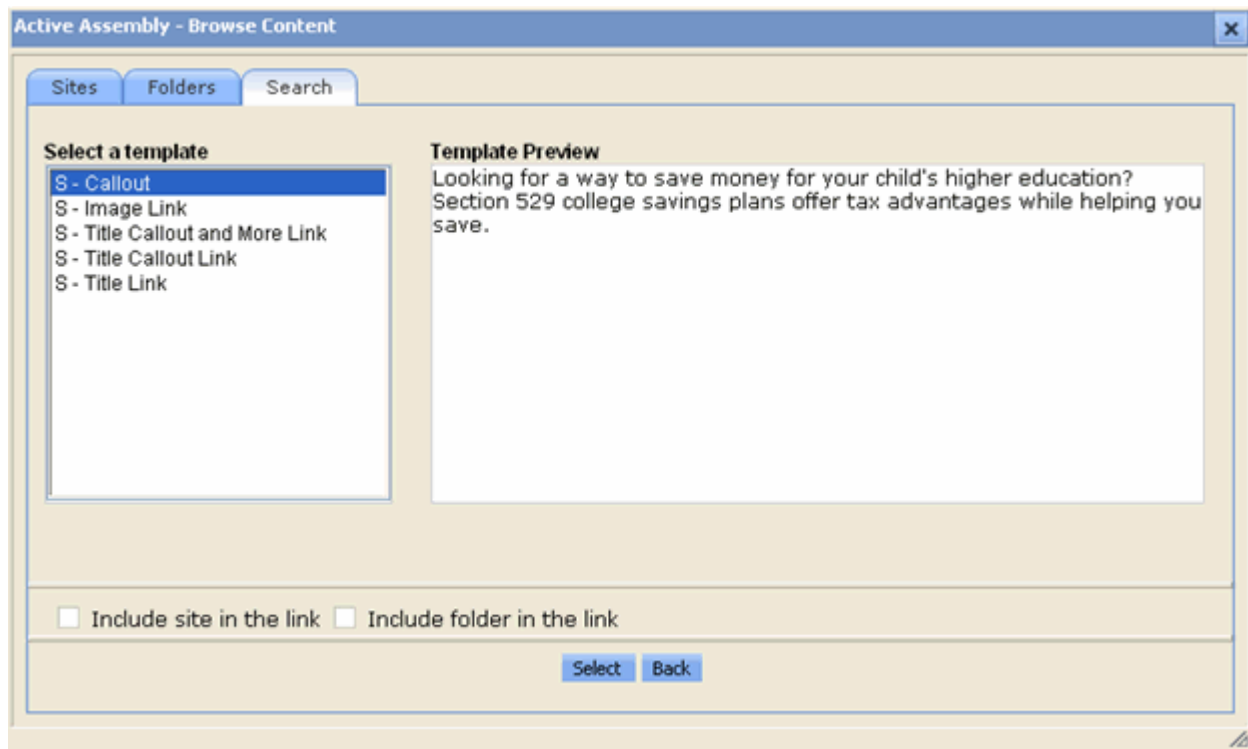


Figure 85: Template selection page

- 9 Click each option under **Select a template** to see in **Template Preview** how it formats the content item.

We want to create a link to the specified page using the Title and Callout of the target Content Item, so we will use the *S - Title Callout Link* Template.

- 10 Select *S - Title Callout Link* and click **[Select]**.

The Content Browser returns to the page of search results so you can add another item to the Slot. If you move the Content Browser over so you can see the Sidebar Slot, you will see that the *Section 529 College Savings Plans* content item has been added to the Slot.

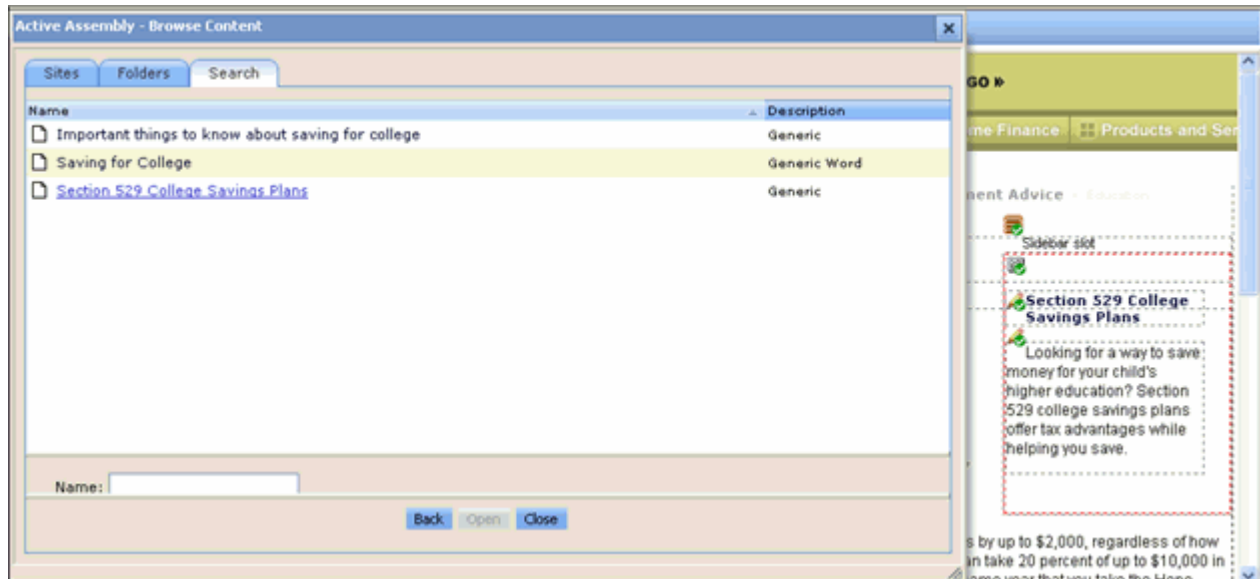


Figure 86: Snippet added

- 11 Repeat Steps 7 - 10, adding the *Important things to know about saving for college* content item in the format of the *S - Title Callout Link* template.
- 12 When you return to the Search results, click [**Back**] to return to the search screen. Since you do not want to enter another search, click [**Close**].

The Content Browser closes and the page for the Tuition Content Item now resembles:

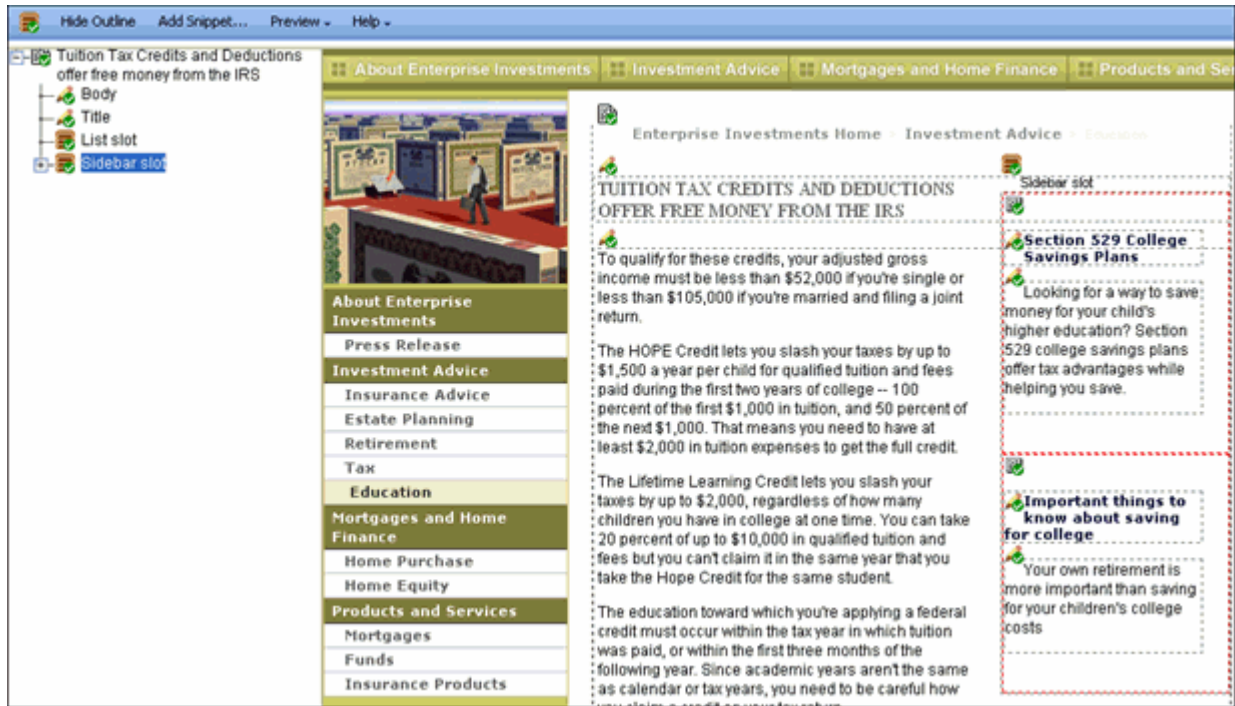


Figure 87: Snippets with links added to page

Each new Snippet that you add to a Slot is inserted at the bottom of the Slot, so the *Important things to know about saving for college* Snippet appears below the *Section 529 College Savings Plans*.

Each of the titles in the Snippets that you have added is a link to the Web page for that item. To see this press ALT and click on one of the Snippet titles.

Rhythmyx opens the page that the title links to.

- 13 When you have finished, close the Active Assembly window for the Tuition Content Item.


Adding an Image to a Generic Page

Now let us add an image to one of our Education Content Items. In this case, let us add an image to the rich-text *Body* field of the Content Item.

- 1 In the Navigation Pane, select the Education Folder.
- 2 In the Content Pane, right-click on the Tuition Content Item and choose *Edit* from the popup menu.

Rhythmyx displays the Tuition Content Editor.

- 3 Scroll down to the *Body* field, and place the cursor before the first character in the field.

- 4 Click the Insert Rhythmyx Image button .

Rhythmyx displays the Content Search dialog.

- 5 If you have the Full-text Search Engine installed, enter *glasses* in the Search for field. If you have the database search engine installed, enter *glasses* in the Title field. Click the [**Search**] button.

Rhythmyx displays the Search Results window.

- 6 Click the **Tax and Glasses** radio button. (If you want to see a preview of this Content Item, click the [Tax and Glasses](#) link.) Click the [**Add**] button.
- 7 Rhythmyx adds the graphic to the Body field.
- 8 Now let us format the graphic so it merges more smoothly with the text. Right-click on the graphic and choose *Image Properties* from the popup menu.

Rhythmyx displays the Image Properties window.

- 9 In the Alignment drop list, choose *Left*.
- 10 Click the [**OK**] button.

- 11 The text will now flow around the graphic, similar to the following screenshot:

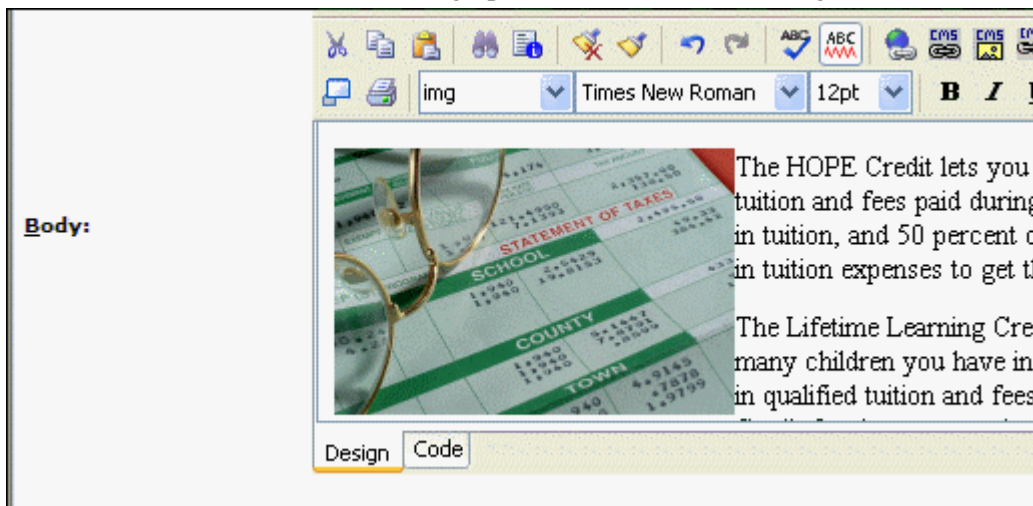


Figure 88: Image added to Generic Page

- 12 Click the [**Update**] button to upload the changes to the Repository.

- 13 When the changes have been uploaded, the Content Editor will refresh. To check your changes, scroll down to the Preview links and click the P - EI Generic link. The preview should resemble the following screenshot

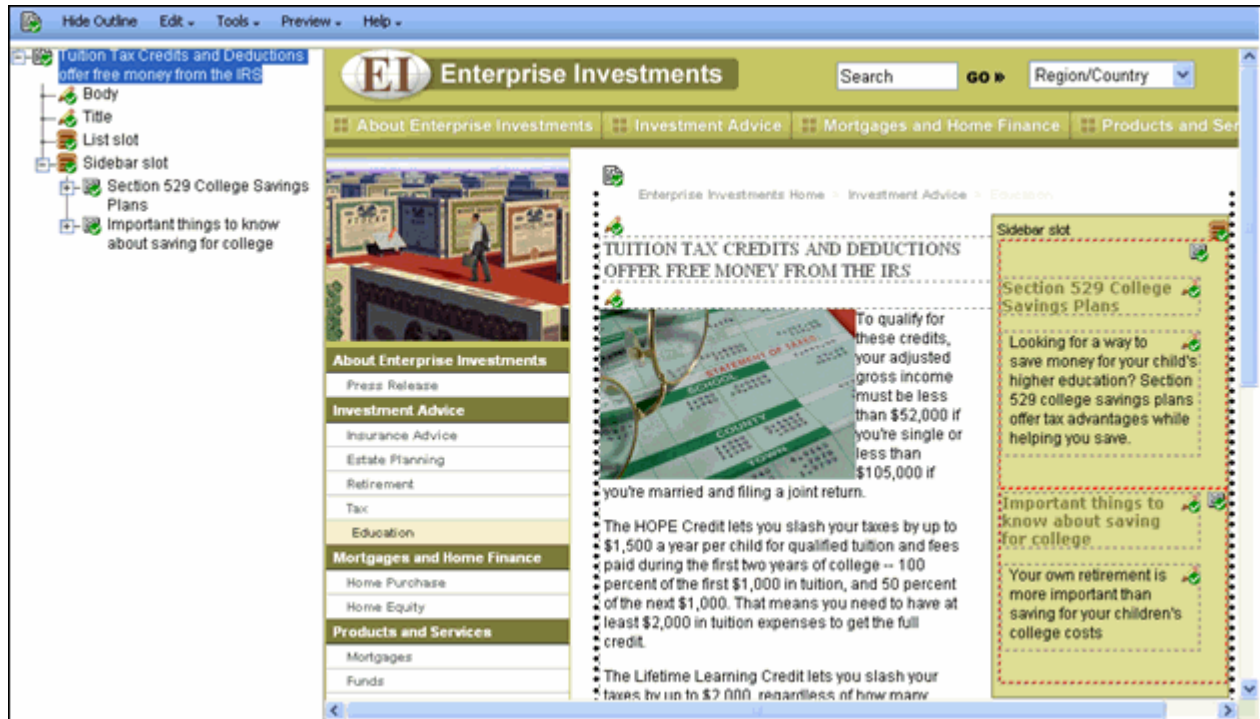


Figure 89: Graphic inserted

Now, add the Money Roll Image to the 529 Content Item and add the Girl Looking at Camera Image to the Important Things... Content Item. You may want to try alternative formatting for these images (for example, aligning right instead of left).

Previewing the Content Item

Now that we have added related content to our Content Items, let us preview them to see how they will look when published.

To preview the Tuition Content Item:

- 1 In the Navigation Pane of Content Explorer, open the Education folder.
- 2 Right-click on the Tuition Content Item and on the popup menu choose *Enterprise Preview > P - EI Generic*.

3 Rhythmyx displays a preview of the Tuition Content Item.

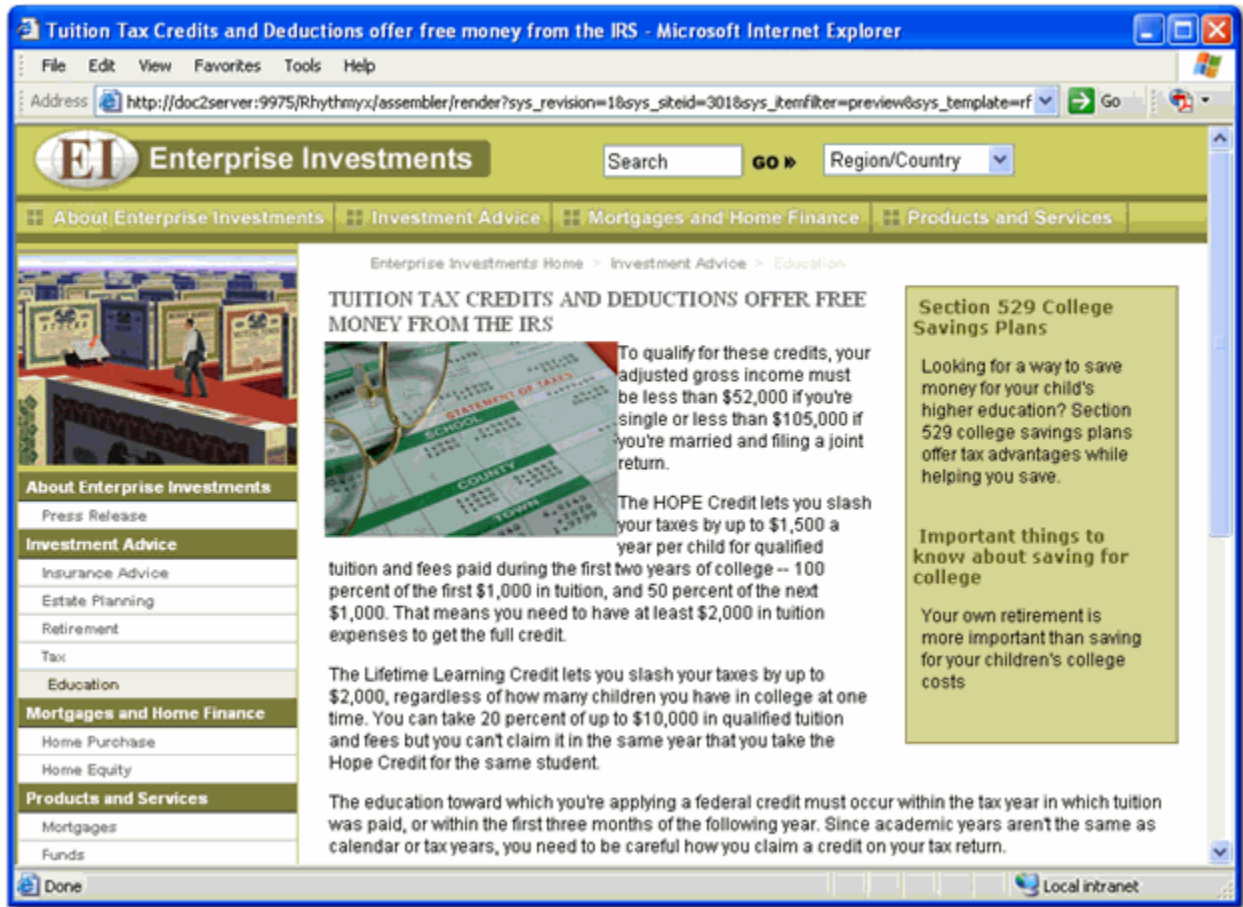


Figure 90: Content Item Preview

Note that the page includes the graphic and the content items in the Sidebar Slot that we added.

Click on the Important Things or Section 529 Content Item. Rhythmyx displays previews of these pages. These previews give you an idea of how the pages will look when published. Note, however, that when content is published, the related Content Items will only be included if they are Public. The following section, which describes Workflow, explains how to make these new Content Items Public.

Workflow

A Workflow is a business process that defines the life cycle of a Content Item. In Rhythmyx, every Content Item must exist within a Workflow. The Workflow defines:

- the steps or stages in the processing of the Content Item;
- which users can access the Content Item at a particular point in its life cycle; and
- what different users can do to the Content Item at each point.

Rhythmyx defines a Workflow as a series of stages, or States, which define the life of the Content Item. In each State, users in specific Roles have access to the Content Item. Users in some Roles can modify the Content Item, while users in other Roles can only see and read the Content Item. Users with the correct access can also Transition Content Items, moving them between States in a Workflow.

Check In and Check Out

The check in and check out functionality in Rhythmyx allows multiple users to have access to all Content Items, but prevents more than one user at a time from modifying a Content Item. When a user checks out a Content Item, only that user can edit the Item; it is unavailable to all other users.

Check in and check out are special types of Transitions. Check in and check out do not move a Content Item from one State to another, as do normal Transitions. Instead, check in sets a lock flag that indicates a user has the Content Item checked out. Check in removes this flag.

In many cases, Rhythmyx checks Content Items in and out automatically. In a few cases (notably when initially creating a Content Item or after modifying the Content Item), you must check the Item in manually.

About Roles

A Role is a collection of users with the same access in Rhythmyx. In Workflows, Roles determine which users can access content in each State and which Transitions they can apply.

Organizing users into Roles helps administrators manage users that have the same permissions. Instead of managing the permissions for each user, they define a Role its permissions, then assign users to it. Users inherit their access rights from the Roles to which they are currently assigned.

Transitioning Content Items to a New State

Now that we have finished creating our Content Items and adding related content, we want to make them Public so we can publish them. We will need to perform a Transition on the Content Item.

To Transition the Tuition Content Item:

- 1 In the Navigation Pane, go to the Education Folder.
- 2 Right-click on the Tuition Content Item and on the popup menu, choose *Workflow > Submit*.

- 3 Rhythmyx displays a Workflow Comment window. You can enter a free-form comment in this window.

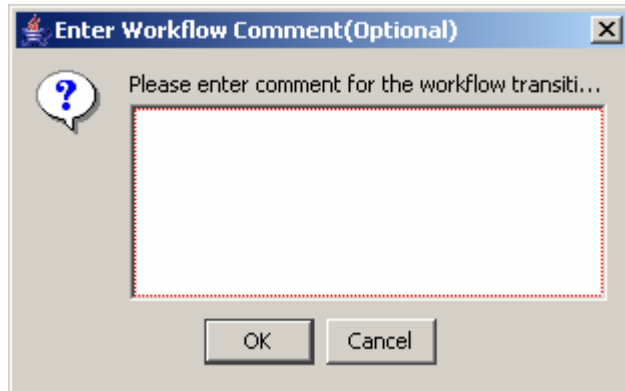


Figure 91: Workflow Comments Popup

- 4 Click the [OK] button to continue making the Transition.
- 5 Rhythmyx displays a message box informing you that it is processing the Tuition Content Item.
- 6 When the message box disappears, the Transition is complete, and the Content Item is now in the Review State.

Note that the Author1 user does not have rights to Transition the Content Item in the Review State. If you right-click on the Tuition Content Item now and choose Workflow, the submenu lists *No Entries*.

Repeat the process above for the remaining new Content Items (Important Things to Know, Section 529 Plans, Money Roll, Tax and Glasses, Girl Looking at Camera, Saving for College).

About the Standard Workflow

The Generic Page Content Type uses the Standard Workflow, one of two basic Workflows included with FastForward. The Standard Workflow is a common structure that requires one approval before going to Public.

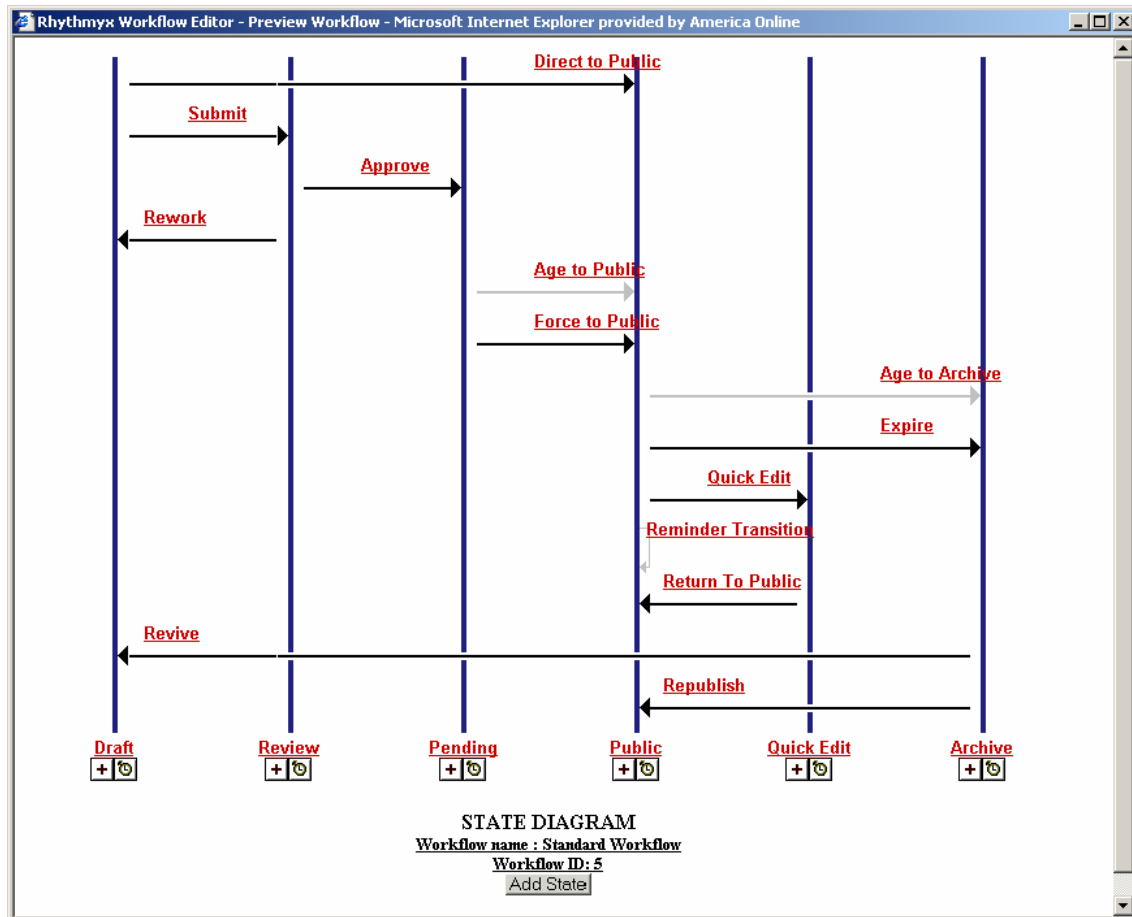


Figure 92: Preview of Standard Workflow

Note that the Standard Workflow includes a Pending State between the Review and Public States. This State is included to support internationalized systems. In some cases, internationalized systems require that Translations of Content Items be Published at the same time as the original. The Pending State provides a holding area for original Content Items while waiting for the Translations to be completed.

The Public State is the State in which the Content Item is eligible to be Published. When a Content Item reaches this State, it will be published the next time the Publisher runs.

The Quick Edit State is provided to allow quick touch-ups to Content Items without forcing them through the complete Workflow again. For example, if you find a misspelling or minor grammatical error on the Content Item, there is usually no need for it to go back through the complete approval process. Instead, you can move it to Quick Edit, make your change, and return the Content Item to Public immediately. Note that your changes will not be reflected in the published output until the Content Item is re-published.

Finally, the Archive State provides a terminal State for Content Items after they have expired. The Content Items continue to exist in the system, and if necessary can be revived. (In the Standard Workflow, revised Content Items are returned to the Draft State and must go through the complete Workflow before they can return to Public.)

Moving Content Items to Public

As we noted above, when logged in as Author1, you cannot transition the Education Content Items from the Review State. You must log in as a user with rights to Transition the Content Items in this State. In this case, the user Editor1 has these rights. Start a new browser session and log in as Editor1 (this user uses the standard password *demo*).

(Note that you must start a new browser session. While you can change the Community [and in internationalized environments, the Locale] of the user in the current session, each session is associated with a specific user. In order to log in as a different user, you must start a new browser session.)

Once you have logged in, go to the Education Folder.

We are going to assume for our purposes that these Content Items are all ready to go Public. Rather than Transition them individually, we can Transition them all at once.

To Transition multiple Content Items:

- 1 Select the Content Items you want to Transition. In this case, we want to Transition all the Generic Page Content Items, the Generic Word Content Item, and the Image Content Items. The Content Explorer applet supports multi-select. You can hold down the <CTRL> key while selecting Content Items, or if multiple Content Items are adjacent, select the first Content Item, then hold down the <Shift> key while selecting the last Content Item you want to select. All Content Items in between will be selected as well.

- 2 Right-click and from the popup menu, choose *Workflow > Approve*.

When you multi-select, Content Explorer displays only the Transitions that all selected Content Items have in common. In this case, the Content Items should have the following Transitions in common:

- Check-out
- Approve
- Rework

If the selected Content Items have no Transitions in common, when you select Workflow from the popup menu, the submenu option will be *No Entries*.

- 3 Rhythmyx displays the Workflow Comment window. If you enter a comment in this window, it will be added to the record for all selected Content Items. You cannot enter different comments for different Content Items in the selection. If you want to enter different comments for different Content Items, you must Transition them individually.
- 4 Click the [OK] button.

Rhythmyx displays a message window showing the Content Items it is Transitioning. When the message window disappears, all selected Content Items have been Transitioned.

The selected Content Items are now in the Pending State. Ordinarily, when using the Standard Workflow, you would allow Rhythmyx to move the Content Items to Public automatically using the Aging functionality. In the Standard Workflow, an Aging Transition has been added from the Pending State to the Public State. This Transition will automatically move the Content Items to Public based on the System Field **Start Date**. Recall that we preserved the default Start Date, which is the current date, when we created our Content Items. When the aging process on the Rhythmyx server (known as the Aging Agent) runs, it will find our Content Items, and note that their Start Date is the current date (or the past date when you created them). Thus, it will move the Content Items to Public automatically. The Aging Agent runs every ten minutes, so you may have to wait a few minutes for your Content Items to Transition automatically.

If you don't want to wait, another Transition, Force to Public, is also available from the Pending State. The Force to Public State is only available to users in the Admin role, so if you want to force these Content Items to Public, you will have to start another browser session and log in as admin1 to have access to Transition these Content Items.

Maintaining Managed Navigation for the Education Folder

Recall that when we created the Education Folder, Rhythmyx automatically created a Navon Content Item of the same name in the Folder. Navons are Content Items, and act like other Content Items in the system. They include Slots and have related Content Items assigned to them. Navons also exist in a Workflow and can be Transitioned. During assembly, however, Navons are treated somewhat differently. Rhythmyx uses them to create a background XML document that it uses to apply navigation to published pages.

To ensure that our Education Folder and its content are published correctly, we will need to assign a Content Item to the Landing Page Slot of the Education Navon, and we will have to make the Navon Public.

Note that although the users `author1` and `editor1` could see the Education Navon, this Content Item actually exists in the Enterprise Investments Admin Community. Since the users `author1` and `editor1` are members of the Enterprise Investments Community, they cannot access the Education Navon. The user `admin1`, however, can log in to the Enterprise Investments Admin Community and thus can maintain this Content Item. If you still have a browser session for the `admin1` user active, you can use that session. Otherwise, you will need to start a new browser session and log in as `admin1`.

Regardless of whether you use an existing browser session or log in to a new session, you will need to change the Community `admin1` is logged in to from Enterprise Investments to Enterprise Investments Admin.

Creating a Landing Page for the Education Folder

A landing page is the page you are directed to when you click on a link in the Navigation. The landing page should have links to all of the other pages in the directory. Use a Generic Page and assign all of the other Content Items in the Folder as related Content Items in the List Slot.

Next, you must specify this page as the landing page for the Navon.

To add a Landing Page to the Education Navon:

- 1 In the Navigation Pane, go to the Education Folder.
Navons generally act like normal Content Items in the system, so they include Slots. However, during assembly, Navons are used to create a background XML document that is used to add navigation to published pages. They are never assembled into Snippets or Pages. Therefore, you cannot use the Active Assembly Preview to maintain the Slots on a Navon. You must use the Active Assembly Table Editor to add related content to the Slots on a Navon.
- 2 Right-click on the *Education* Content Item and on the popup menu, choose *Active Assembly Table Editor*.

3 Rhythmyx displays the Active Assembly Table Editor.

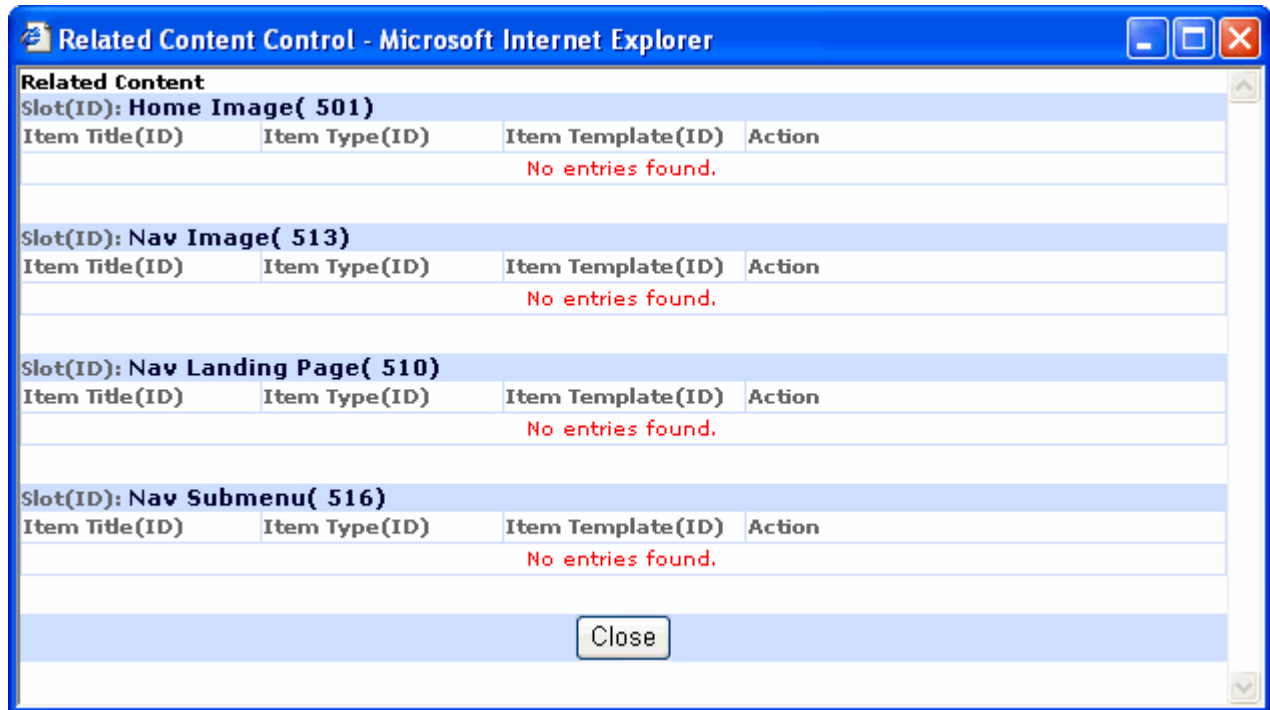


Figure 93: Navon Table Editor

- 4 Click the nav_landing_page link.
- 5 Rhythmyx displays a search window. Search on the term "tuition".
- 6 The search results will only include S - Title Link Snippets. Check the box for the Tuition Content Item and click the **[Link to Slot]** button.

7 The Tuition Content Item will be added to the nav_landing_page Slot on the Table Editor.

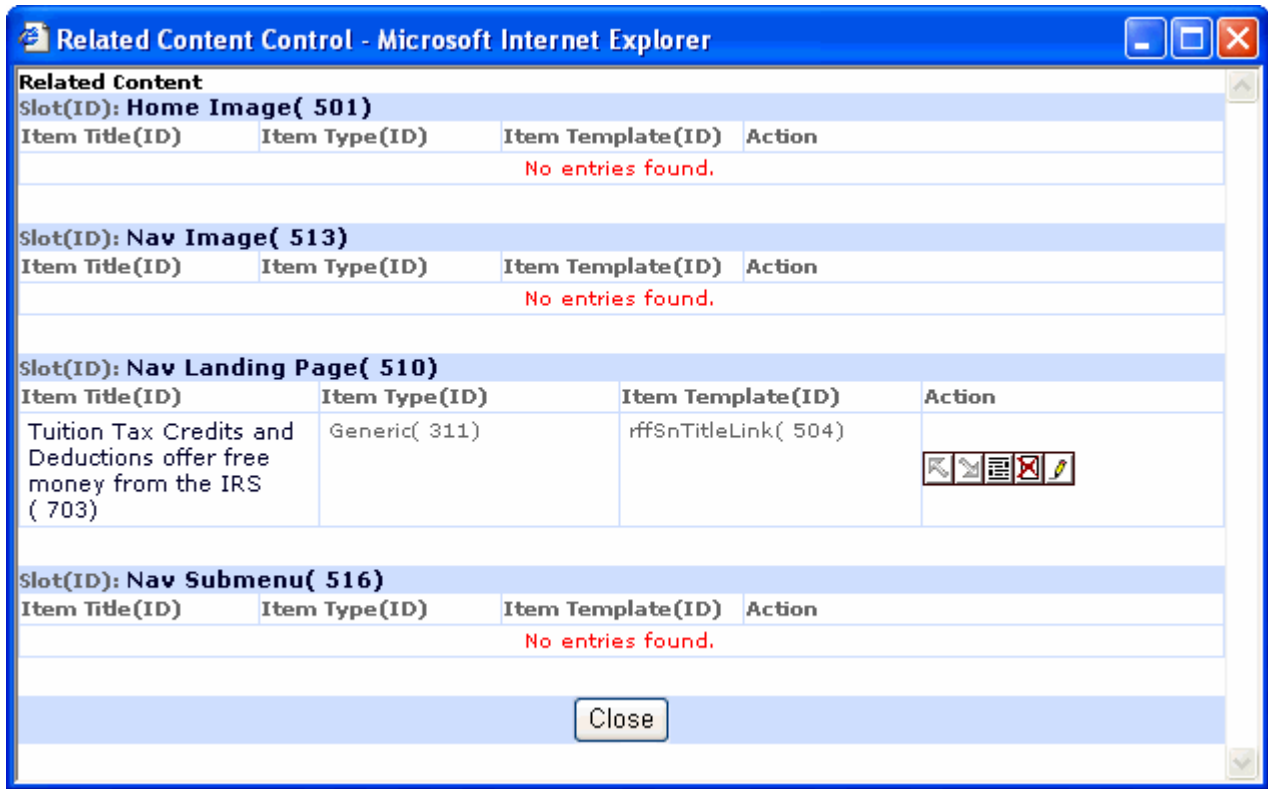


Figure 94: Landing Page Added

8 Close the table editor.

To see how the landing page works, Preview the Enterprise Investments Home Page. In the left navigation bar, you will see that Education has been added as a section under Investment Advice. If you click on this link, you will be directed to the Tuition Tax Credits page, which includes links to the Education Content Items we added.

Making the Education Navon Content Item Public.

Before our new Education section can be published correctly, we need to make the Education Navon Public.

Use the same procedure that you used to Transition the other Content Items. Notice that when you choose Workflow from the popup menu, the submenu includes the option Direct to Public. We will not be making any additional changes to the Education Navon, so use this Transition.

When you are finished, all of the Content Items in the Education Folder, including the Education Navon, will be Public. Now you are ready to publish this Site with the new Section.

Publishing the Web Site with the Education Section

Now that we have added our new section, we are ready to publish the Web Site to include it.

To publish the site, in Content Explorer, choose the Publishing tab and go to the Editions window. In the Publish column of the Full Enterprise Investments Edition, click the run icon (🌐).

Rhythmyx redirects you to the Publisher Status page. This page displays updates regarding the state of your publishing run.

The run may take five to ten minutes to complete. When it is complete, the Status page will state "Edition is no longer in progress." Click the Publishing tab to return to the Publishing home page. This page lists the Publishing logs. You should see a new log entry with the date stamp of the time you initiated the run. If the value in the Status column is *Success*, then you have published your content successfully. If the value is *Error*, then a problem occurred during the run.

Successful Publisher Runs

If the Publisher runs successfully, you will see a new subdirectory (Education) in the Investment Advice directory of your Publishing target location, by default:

```
<Rhythmyx root> \AppServer\server\rx\deploy\EI_Home.war\
```

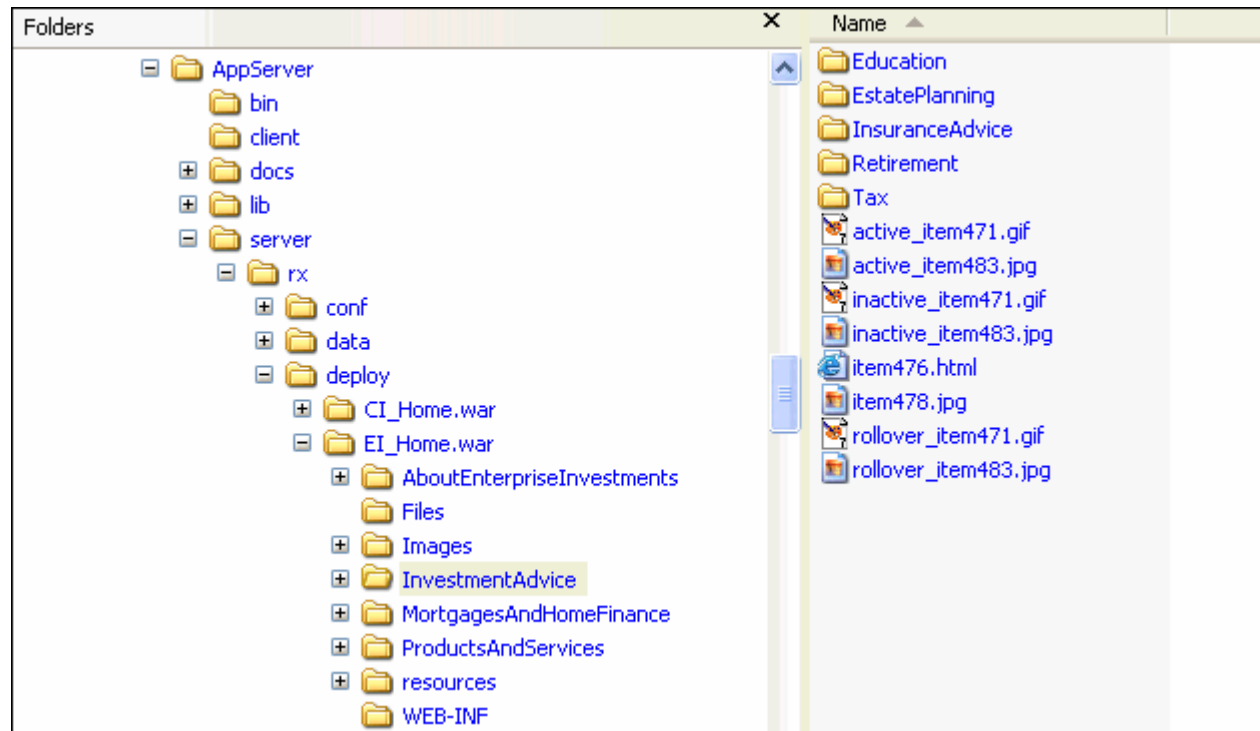
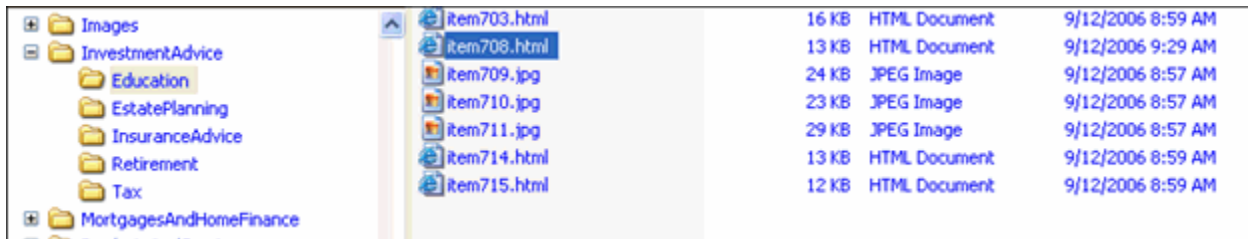


Figure 95: Published Education Folder

If you do not see this directory, then none of the Content Items in the Site Folder were published. The most common reason for Content Items not to be published is that they are not in the Public State. Go back to the Content Tab of Content Explorer and Transition all of the Content Items in the Education Folder to Public.

Another reason that the Education directory might not be created is that it does not contain any Content Items. Go back to the Content tab of Content Explorer and move the Education Content Items to the Education Folder.

If you open the Education directory, you will see four new HTML pages. The names of these files will be itemNNN.html. The value of NNN will be the Content IDs of the Generic Page and Generic Word Content Items you created during this walk-through. You will also see three new JPG pages. These are the image Content Items that you created. The values should resemble those in the graphic below:

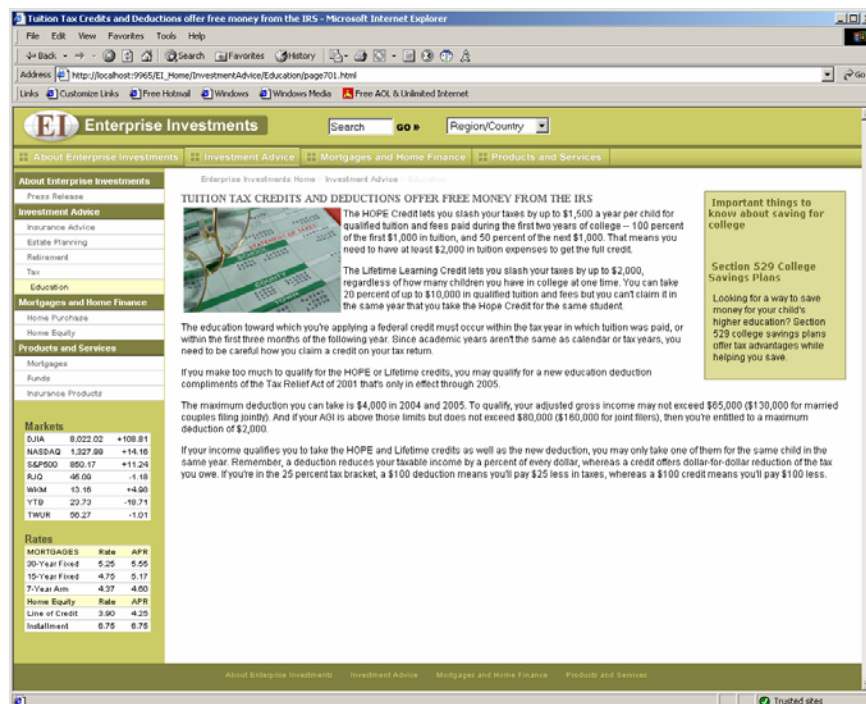


File Name	Size	Type	Date/Time
item703.html	16 KB	HTML Document	9/12/2006 8:59 AM
item708.html	13 KB	HTML Document	9/12/2006 9:29 AM
item709.jpg	24 KB	JPEG Image	9/12/2006 8:57 AM
item710.jpg	23 KB	JPEG Image	9/12/2006 8:57 AM
item711.jpg	29 KB	JPEG Image	9/12/2006 8:57 AM
item714.html	13 KB	HTML Document	9/12/2006 8:59 AM
item715.html	12 KB	HTML Document	9/12/2006 8:59 AM

Figure 96: Contents of Education Folder

If any of the Content Items you created are missing, either they are not Public or they are not in the Education Folder.

If you access the home page by entering http://localhost:9992/EI_Home/index.html, and then click the Education link in the right navigation pane, your Tuition page will resemble the following:



Tuition Tax Credits and Deductions offer free money from the IRS

Enterprise Investments Home Investment Advice Education

[About Enterprise Investments](#)
[Investment Advice](#)
[Mortgages and Home Finance](#)
[Products and Services](#)

Important things to know about saving for college

Section 529 College Savings Plans

Looking for a way to save money for your child's higher education? Section 529 college savings plans offer tax advantages while helping you save.

TUITION TAX CREDITS AND DEDUCTIONS OFFER FREE MONEY FROM THE IRS

The HOPE Credit lets you slash your taxes by up to \$1,500 a year per child for qualified tuition and fees paid during the first two years of college – 100 percent of the first \$1,000 in tuition, and 50 percent of the next \$1,000. That means you need to have at least \$2,000 in tuition expenses to get the full credit.

The Lifetime Learning Credit lets you slash your taxes by up to \$2,000, regardless of how many children you have in college at one time. You can take 20 percent of up to \$10,000 in qualified tuition and fees but you can't claim it in the same year that you take the Hope Credit for the same student.

The education toward which you're applying a federal credit must occur within the tax year in which tuition was paid, or within the first three months of the following year. Since academic years aren't the same as calendar or tax years, you need to be careful how you claim a credit on your tax return.

If you make too much to qualify for the HOPE or Lifetime credits, you may qualify for a new education deduction compliments of the Tax Relief Act of 2001 that's only in effect through 2005.

The maximum deduction you can take is \$4,000 in 2004 and 2005. To qualify, your adjusted gross income may not exceed \$65,000 (\$130,000 for married couples filing jointly). And if your AGI is above those limits but does not exceed \$80,000 (\$160,000 for joint filers), then you're entitled to a maximum deduction of \$2,000.

If your income qualifies you to take the HOPE and Lifetime credits as well as the new deduction, you may only take one of them for the same child in the same year. Remember, a deduction reduces your taxable income by a percent of every dollar, whereas a credit offers dollar-for-dollar reduction of the tax you owe. If you're in the 25 percent tax bracket, a \$100 deduction means you'll pay \$25 less in taxes, whereas a \$100 credit means you'll pay \$100 less.

Markets

Market	Value	Change
DJIA	8,022.02	+108.81
NASDAQ	1,327.09	+14.16
S&P500	850.17	+11.24
RUS	48.98	-1.18
WM	13.16	+4.00
YTD	29.73	-10.71
TWUR	50.27	-1.01

Rates

MORTGAGES	Rate	APR
30-Year Fixed	5.25	5.55
15-Year Fixed	4.75	5.17
1-Year Arm	4.37	4.60

Home Equity	Rate	APR
Line of Credit	3.90	4.25
Installment	6.75	6.75

Figure 97: Published Tuition Content Item

Unsuccessful Publisher Runs

If the value of the Status column is Error, your Publishing run failed. See *Troubleshooting/Publishing* (see "Publishing" on page 104) for some hints for failed publishing runs.

CHAPTER 6

Troubleshooting

Installation

Installer Cannot Connect to the Repository

This indicates improper entry of the Server's IP, User ID, or Password.

Solution:

For SQL Server, follow the next few steps to establish a connection:

- Confirm the existence of the sa account through Microsoft's Enterprise Manager Utility.
- Confirm, and if necessary, change, the sa password.
- Re-attempt connection to the Server. If it still fails, confirm the port on which SQL Server is listening in Enterprise Manager:

a) Select Tools > SQL Server Configuration Properties.

The SQL Server Properties dialog opens to the General tab.

b) Press the [**Network Configuration**] button.

The SQL Server Network Utility dialog opens to the General tab.

c) Highlight the TCP/IP protocol and press the [**Properties**] button.

The Network Protocol Default Value Setup dialog opens.

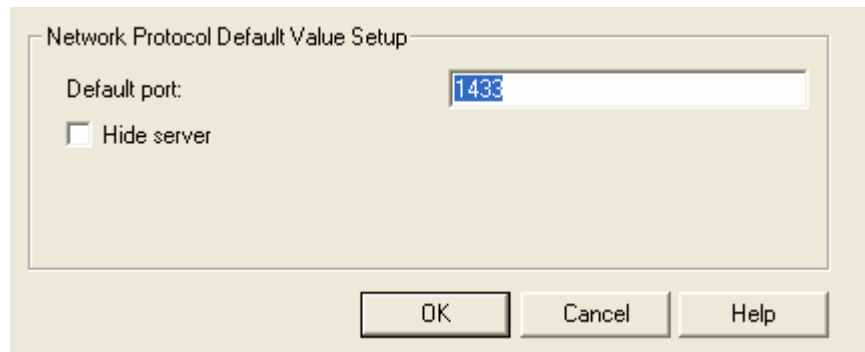


Figure 98: Network Protocol Default Value Setup dialog

- d) If the port number listed is not 1433, change it and press [**OK**].
- e) Exit Enterprise Manager and restart SQL Server.

Installer Hangs

In most cases, the Installer hangs because the system's temporary directories do not have enough room for the installation.

Solution:

Initiate set up from a command prompt, and specify a new temporary directory.

In Windows, use the command shown in the following graphic. In the graphic “d” represents the drive on which the setup executable is located and “c” represents the installation drive.

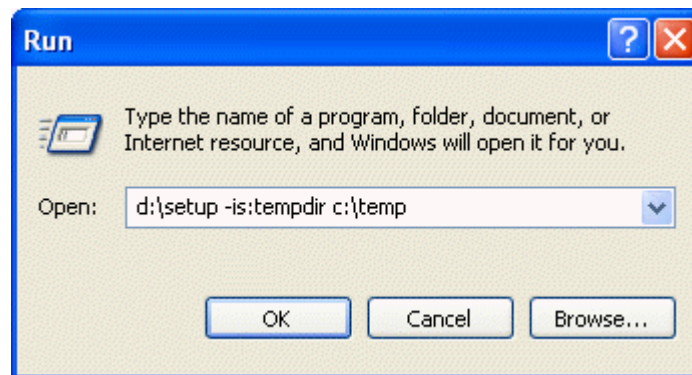


Figure 99: Temporary Directory Setup

In Unix, enter:

```
sh SetupUI.sh -is:tempdir /usr/home/Rhyth_User
```

Server Shuts Down During Initialization

Server encounters an error and shuts down during initialization

Solution:

Go to <Rhythmyx root>\AppServer\server\rx\log. First open boot.log and look for error messages giving you details about the server shut down. If you still need more information, go to server.log and read through any error messages.

Startup

Rhythmyx License Period Expired

On startup, the Rhythmyx Server displays the message, “The evaluation period for this license has expired.”

Solution:

This error indicates that your license for Rhythmyx has expired, and you need a new license. Contact Percussion Technical Support for a new license and for instructions about updating your installation.

Out-of-Memory Condition Displayed on Rhythmyx Startup

The Rhythmyx Server console displays an out of memory condition when you attempt to start Rhythmyx.

Solution:

Start the Rhythmyx Server from a command line and specify at least 512 megabytes of RAM.

In Windows, use the following case-sensitive command:

```
RhythmyxServer.exe -Xmx512m
```

In Unix, create a file named RhythmyxServer.ja. In the file, include the line:

```
-Xmx512m
```

Run RhythmyxServer on a command line. The command will automatically check for additional options in the RhythmyxServer.ja file and include them.

Publishing

Links in Publication Map are Broken

The Publication Log in the Publishing Administrator indicates that files have published correctly, but links in the Publication Map to the files on the Web server are broken.

Solution:

Fix the Publishing Root Location or the Site Address (URL) on the Edit Site Page. The Publishing Root Location must be an existing directory that an HTTP server listed in Site Address (URL) serves. Since we are publishing to a file system, the Publishing Root Location must be an absolute path (for example, c:/inetpub/wwwroot or /usr/local/web).

Difficulty Locating Publisher Error Logs

You are having difficulty locating Publisher error logs.

Solution:

Different parts of the Publisher have different error logging. The part of the system that encounters a failure determines which log records the error. The following table indicates where different system component errors are logged.

System Component	Definition	Where system component logs Publishing errors
Content Lists	The content lists are ordinary Rhythmyx Query applications.	Content lists write serious errors to the PSLOGDAT table (if it is enabled), and they may generate trace files
PubHandler	The PubHandler is a loadable handler that manages the Publishing process. It reads the content lists and generates SOAP messages to the Publisher.	Generally, Loadable Handler errors go to the Rhythmyx server console.
JBOSS server	The default Publisher server.	The JBOSS server has logs. These are generally in <Rhythmyx root>\AppServer\server\rx\log. Go to server.log and read through any error messages.
Publisher	--	The publisher's output goes to the /<Rhythmyxroot>/AppServer/server/deploy/publogs directory. There is one log for each edition, and the edition number (and Publishing run number) are in the file name. These are the logs that are linked from the Publication Details Map. If anything fails (or is configured incorrectly) before the SOAP servlet calls the Publisher, there will be no log.
RXPUBSTATUS	Backend Rhythmyx table	If all of the Publishing steps work, Rhythmyx adds a row to the RXPUBSTATUS table. When this row is added, a new line appears in the Publication Log window.

Index

A

- A Brief Introduction to Content Explorer • 60
- A Brief Introduction to Rhythmyx • 59
- About FastForward for Web Content Management • 4
- About Roles • 92
- About the Standard Workflow • 93
- Active Assembly • 80
- Adding Additional Content to the Education Folder • 79
- Adding an Image to a Generic Page • 88
- Adding Links to Other Generic Pages in the Sidebar Slot • 80

C

- Check In and Check Out • 92
- Client Side • 9
- Content Tab • 44
- Creating a Generic Page Content Item • 66
- Creating a Generic Word Content Item • 70
- Creating a Landing Page for the Education Folder • 96
- Creating an Image Content Item • 72
- Creating Content Items • 66
- Creating the Education Folder • 75

D

- Difficulty Locating Publisher Error Logs • 107

I

- Implementing FastForward • 5
- Installation • 104
- Installer Cannot Connect to the Repository • 104
- Installer Hangs • 105
- Installing Rhythmyx • 10
- Installing Rhythmyx in a Development Environment • 7
- Installing Rhythmyx on Solaris/Oracle • 29
- Installing Rhythmyx on Windows/SQL Server • 10
- Introducing Rhythmyx FastForward for Web Content Management • 3

- Introduction to Content Explorer • 41

L

- Links in Publication Map are Broken • 106
- Logging in to Content Explorer • 42

M

- Maintaining Managed Navigation for the Education Folder • 77, 96
- Making the Education Navon Content Item Public. • 98
- Moving Content into the Education Folder • 77
- Moving Content Items to Public • 94

O

- Out-of-Memory Condition Displayed on Rhythmyx Startup • 106

P

- Preparing the Development Environment for Rhythmyx Installation • 8
- Previewing the Content Item • 90
- Publishing • 53, 101, 106
- Publishing and Reviewing the Corporate Investments Site • 57
- Publishing FastForward for WCM Sample Content • 49
- Publishing Tab • 46
- Publishing the Web Site with the Education Section • 99

R

- Reviewing the Published Content • 53
- Rhythmyx License Period Expired • 106
- Rhythmyx Repository • 9
- Running the FastForward for WCM Edition • 50

S

- Server Shuts Down During Initialization • 105
- Server Side • 8
- Starting the Rhythmyx Server • 40
- Startup • 40, 106
- Successful Publisher Runs • 100

T

- The Content Explorer Banner • 62
- The Content Pane • 64
- The Menu Bar • 64
- The Navigation Pane • 63
- Transitioning Content Items to a New State • 92

Troubleshooting • 103

U

Unsuccessful Publisher Runs • 101

W

Workflow • 92

Workflow Tab • 47

Working with Site Folders • 75