Upgrading Rhythmyx Version 6.5.x to Version 6.7

System Requirements

The recommended minimum hardware configurations for all operating systems have increased:

Sun Solaris 9 or 10

	Development Server	Production Server
Processor	UltraSPARC IV (dual core) - 2 GHz	UltraSPARC T1 1.0 GHz
RAM	2 GB	4 GB
Disk Space	1.2 GB + 1.2 GB for installation and application data	1.2 GB + 1.2 GB for installation (and, depending on the amount of application data, 2 - 20 GB more on the server and 2 - 20 GB more on the database machine)

Microsoft Windows

Windows 2003 (Server and Advanced Server), Windows XP, Windows Server 2008; Windows Vista is supported only for client system components.

	Development Server	Production Server
Processor	2 GHz dual core	3 GHz dual core
RAM	1 GB + 1 GB for the database	3-4 GB (assuming that the database is on a different system)
Disk Space	1.2 GB + 1.2 GB for installation and application data	1.2 GB + 1.2 GB for installation (and, depending on the amount of application data, 2 - 20 GB more on the server and 2 - 20 GB more on the database machine)

Linux

Certified on Red Hat Linux AS 4.0 and Red Hat Linux 5.0. Linux OS certified on Intel-based hardware.

	Development Server	Production Server
Processor	2 GHz (dual core)	3 GHz (dual core)
RAM	1 GB + 1 GB for the database	3-4 GB (assuming that the database is on a different system)
Disk Space	1.2 GB + 1.2 GB for installation and application data	1.2 GB + 1.2 GB for installation (and, depending on the amount of application data, 2 - 20 GB more on the server and 2 - 20 GB more on the database machine)

The following RDBMS's are supported:

- Oracle
    - 9i
    - 10i
    - 11g
- Microsoft SQL Server
    - 2000
    - 2005
    - 2008

NOTE: MySQL is supported only as the target RDBMS for database publishing. MySQL is not supported as the Content Repository database.

The Content Explorer applet requires Java JRE 1.5.0_07; on Microsoft Windows Vista, the minimum supported version is 1.5.0_11; on Microsoft Windows Server 2008, the minimum supported version is Java JRE 1.6.0_7.

Publishing Engine Re-implemented

In Rhythmyx Version 6.7, the publishing engine is re-implemented.

In the new implementation, remote publishers are no longer supported. Implementations that use remote publishers should be re-implemented to use File Transfer Protocol (FTP) or to deliver content directly to the output location.

Custom publishing plug-ins must updated work with the new engine. Plug-ins can be wrapped in the new system by adding Spring bean configurations for the plug-in, or they can be re-implemented using the new Delivery Handler interface. For details, see "Delivery Handlers" in the *Rhythmyx Technical Reference Manual*. For details about Spring bean registrations for Rhythmyx, see "Spring Configurations" in the same document.

Rhythmyx now includes a secure FTP (SFTP) Delivery Type by default. Existing implementations that use SFTP plugins developed by Percussion Professional Services Organization automatically use the new SFTP Delivery Type.

After upgrade, passwords for FTP and SFTP should be re-entered and saved.

Publishing tables are heavily modified in this upgrade. Custom implementations that rely on these tables must be re-implemented to match the new design. In addition, the Site record must be updated. Clear the Site record for each Site and run a full publish to update the Site record with the new data. For details about clearing the Site record, see the topic "Clearing Site Records" in the Help for the Publishing Runtime tab in Content Explorer.

In the new implementation, the publishing user interface is redesigned, and split into separate interfaces for design and runtime. Current implementations should continue to work normally.

The Edition queuing mechanism changes in this upgrade. Previously, each Edition spawned a single thread, and it was possible to launch multiple Editions simultaneously to process concurrently. In the new mechanism, each Edition spawns multiple threads, but the currently-running Edition consumes all threads. Editions generally run sequentially, but each Edition is assigned a priority. If an Edition with a higher-priority is launched, Rhythmyx stops processing of the Edition that is currently running and processes the newly-launched Edition. When processing of the high-priority Edition is complete, processing of the original Edition resumes.

Database connections can new be defined in the Rhythmyx datasource in the Rhythmyx Server Administrator. Existing datasources in upgraded systems will continue to work normally. It is not necessary to migrate existing database connections into the Rhythmyx datasource.

New Full-text Search Engine

In Rhythmyx Version 6.7, the Convera RetreivalWare full-text search engine is replaced by the Lucene full-text search engine. The search engine is now installed with all Rhythmyx servers. If the server does not currently have the Convera RetrievalWare search engine installed, Lucene will be installed and disabled. If the Convera RetrievalWare search enegine was installed but disabled, Lucene will be disabled after the upgrade. Otherwise, Lucene is installed and enabled.

Convera settings on saved searches are not converted to Lucene settings on upgrade. Rhythmyx will update these settings when the search is saved again. Matching results cannot be guaranteed, however, so implementers should review saved searches after upgrade and modify them to return the expected results if necessary.

During the upgrade, files and search indices associated with the Convera RetreivalWare engine are removed. Convera RetreivalWare configuration settings are removed from config.xml and rw_processes.xml. Search indices should be regenerated after the upgrade.

The sys_TextExtraction post-processing extension, which was used in earlier version to extract text from uploaded files and insert it into content editor fields, is now obsolete. New installations will use the sys_TextExtractor exit, which only extracts data as plain text and not as HTML. On upgrade, implementers must manually change instances of sys_textExtraction to sys_textExtractor and modify it to use the valid parameters. If the sys_TextExtraction exit is used, or its outputFormat parameter is set to HTML, or its pdfConversion parameter is passed, the system will throw an exception.

Text extraction support is now limited to the following file types:

- HTML & XML
- MicrosoftExcel '97 to 2003
- Microsoft Powerpoint '97 to 2003
- Microsoft Word 97 to 2003
- PDF
- RTF

Other file types (including Microsoft Office 2007 formats, such as .docx, xslx, and .pptx) are not supported. Moreover, text can no longer be extracted as formatted HTML; raw text is extracted with minimal white-space formatting.

ActiveAssembly Interface

Numerous enhancements have been added to the ActiveAssembly interface.

The ActiveAssembly interface can be configured not to show icons and borders by default. To configure this option, in the file `<Rhythmyxroot>/rxconfig/server/ server.properties`, change the value of the `defaultActiveAssemblyMode` property to 1. If the file does not include this property, the server assumes the default value of 0, specifying that icons and borders will be displayed as in Rhythmyx Version 6.5.2.

The ActiveAssembly interface can now be configured as the target for links in Workflow notification e-mails. To configure this option, in the file `<Rhythmyxroot>/rxconfig/ server/server.properties` change the value of the `notificationUrlTarget` property to `activeAssembly`. If the file does not include this property, the server assumes the default value of `AP`, specifying that links go to the Acton Panel as in Rhythmyx Version 6.5.2.

Ephox EditLive! for Java Upgrade

In the Version 6.7 release, the Ephox EditLive! for Java DHTML editor control is upgraded to version Ephox Version 6.5. Ephox has changed their processing so that gridlines are now displayed in the control by default. To turn off the gridlines, open the file <Rhythmyxroot>/ rx_resources/ephox/eljconfig.xml and add the following attribute to the <wysiwygEditor> node:

```
showSectionGridlines='false'
```