

MediaRich[®] SERVER

MediaRich CORE 6.2

Quick Start Set Up Guide

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Before You Install

Installation of MediaRich CORE must be performed by an administrator for the server. System requirements may vary depending on server load. Before installing MediaRich you should carefully plan your configuration.

Windows Installations

Minimum recommended configuration for imaging, documents, office applications (no heavy video transcoding, 4k or UHD video transcoding):

- Dual 3+ GHz Intel® Xeon Sandy Bridge and later processors
- 8 GB memory
- Microsoft Windows Server 2012R2 and later
- Microsoft Internet Information Services® (IIS) and ASP.NET with Sub-components

Minimum recommended configuration when processing large HQ videos such as 4k, UHD or 1080P, images, multi-page documents (Bare metal is highly recommended for video transcoding!):

- 8 Core Intel Xeon Sandy Bridge and later
- Dedicated MediaRich Server 8 Core License in shared cache configuration
- Dedicated cache volume 4 x 250 GB Disk 15K SAS RAID-10
- OS-Volume 2x150 GB/SAS/10K mirror
- 32 GB Ram

HARDWARE NOTE: If you intend on handling very large videos in HD 720P or higher, and are looking to maximize throughput with MediaRich’s optional GPU capability in the future, we HIGHLY recommend purchasing Intel Sandy, Ivy or Haswell capable chipsets. This will provide the best option for increasing throughput in the future!

Obtaining a License Key

In order for a MediaRich server installation to function, you need a license key from Equilibrium. The license key sets various properties in MediaRich and determines which MediaRich products are enabled. After installation, use the administration utility to install the license key .bin file and activate the licensed product(s). If you do not already have a license key (usually named “license.bin”), contact 1-855-EQUILIB or +1 415-332-4343 and Dial 4 for Product Information and Sales Support.

In addition to the primary products, iKits can be purchased and enabled in the license key to provide advanced functionality in the server.

Digimarc ImageBridge 4.0 iKit

This iKit enables easy integration between MediaRich and Digimarc technologies. An Embed function can be added to a MediaScript to enable every image generated by the server to be protected by the

Digimarc forensic watermarking technology. A watermarked image can communicate copyrights, enhance digital asset management, and be tracked across the Internet.

This is currently available and supported on Windows, Macintosh, and Linux.

Important: Both the Digimarc iKit from Equilibrium, as well as, Digimarc Server + Maintenance licenses are required for the Digimarc Imaging Server to operate using MediaRich Server. Equilibrium is an authorized Digimarc reseller and can fulfill all Digimarc Server needs. If you already have your Digimarc License directly with Digimarc, please call Equilibrium to purchase the Digimarc iKit that enables the automatic Digimarc processing to occur within a MediaRich MediaScript environment.

Enabling Office (LibreOffice) Document Support

The MediaRich Media Server has the ability to dynamically image Microsoft Office and other Office-related file types and process them the same way MediaRich can for other files. It can save these processed images to any supported image file format and it can dynamically zoom and pan on these files for remote viewing using the UniZoom universal viewer.

Note: When MediaRich is running, LibreOffice cannot be used as a separate application.

MediaRich support for Office documents and other file types will not be available unless LibreOffice is installed. Libre office 6.0 or later is required with the current versions of MediaRich.

You can install/reinstall LibreOffice at any time after MediaRich is installed (or before you install MediaRich, if desired). If you change the LibreOffice installation after MediaRich is installed, you must use the MediaRich CORE Administration utility and stop and start MediaRich. This is not required if you are simply upgrading LibreOffice—MediaRich restart is only required when going from an installed -> uninstalled state or an uninstalled -> installed state with LibreOffice.

To install LibreOffice on a Windows system:

- From <http://www.libreoffice.org>, navigate to and download LibreOffice for your system.
- In the window that prompts for the type of installation you wish to perform, choose a Custom setup.
- In the Installation Wizard, clear the selections for the following Optional Components:
 - Online Update
 - Active-X Control
 - QuickStarter
- Click **Next >** and proceed with the installation.

Starting LibreOffice Functionality

After you install MediaRich it will automatically enable LibreOffice. It is a good idea to reboot after this initial run. On a Windows system where MediaRich is already installed, you install LibreOffice and then stop and start MediaRich.

Note: `OpenOffice.LockExpireTime` is now available in local properties. This function defaults to 10 minutes if not present. This feature was put in to cover any “unforeseen” issues with the sometimes unstable Open/LibreOffice 6.0 application which runs as a “headless server” and enables MediaRich to provide 200+ file types to be rendered and thumbnailed. This property assures that LibreOffice is restarted in the event it stops functioning for whatever reason. Even though errors could show in the logs, files are automatically re-attempted—processing of all files should automatically complete and do not need to be re-submitted.

IIS Configuration on a Windows Server 2012 or Later

Before you install MediaRich on a Windows server 2012 or later, you must configure the server features so that they are compatible with MediaRich; otherwise, the installation of MediaRich Server will not work properly.

Important: These steps are required only for using MediaRich in conjunction with Internet Information Services (IIS). Installations of CORE for only Hot Folder operations or only for the Java/C#/C++ API do not require these steps.

To configure the Roles and Features:

MediaRich for Windows requires that the IIS Application Server, including the ASP.NET Subcomponent, be installed and enabled for some licenses. Specifically, using MRLs or the AVCORE 2 Settings File Generator requires IIS. Also, many of the Merchandizer demos require IIS.

Use the Windows Server Manager to install:

IIS Updates:

- IIS
- IIS 6 Scripting
- IIS 6 WMI Compatibility
- IIS 6 Metabase Support.
- ASP.NET with sub-components

MediaRich CORE Platform Installation

The MediaRich CORE Platform is designed for deployment across a shared network. A shared network deployment also allows the server to receive requests from Web servers utilizing MRLs, generate the requested image from an original source file, and return the image to the Web browser.

Creating a Service User for the MediaRich Server (Windows)

We recommend using a Domain User for this Service. At the Domain level the user could be a standard User. However, they should be part of the local Admin Group where the MediaRich Server will be installed.

This Service account is requested during the Installation of the MediaRich Server and will be used to Monitor and installed the Services Server.

Also, the user running as MediaRich must have service access rights. These rights can be enabled for an account by opening the Group Policy editor, going to Computer Configuration > Windows Settings > Security Settings > Local Policies > User Rights Assignment > Log on as a service and adding the account to the list of service users.

Running the MediaRich Server Installer

Important: For installation on Windows Server 2012 or later, the server must be configured according to the guidelines described in [“IIS Configuration on a Windows Server 2012 or Later” on page 4](#) BEFORE installing MediaRich Server; otherwise, the installation of MediaRich Server will not work properly.

After running the installer, the MediaRich CORE Administration Utility appears, with a Host Name of localhost.

MediaRich Installer (Windows)

The MediaRich CORE installer is supplied as a standard Windows installer package. To begin the installation, double-click on the installer package to run it. The installer will walk you through the installation process.

Important: If you choose to run MediaRich CORE as a specific Service User, be aware that, for security reasons, this dialog does not check the validity of either the account name or the password. It only checks the password against itself so that you can be assured that it was entered correctly. This dialog does not guarantee that the password itself is the correct one or that the account name you choose has adequate permissions.

The Windows installer can install MediaRich for the following languages: English, German, French, and Dutch.

To install the MediaRich on a Windows server:

1. Run the Server Setup with Admin Privileges.
The Setup will request a User Account.
2. Use the User you created for the MediaRich Server.
For example, <Domain>\User and the Password.
3. Complete the initial configuration in the MediaRich CORE Administration Utility (see “Initial Configuration” on page 6).

Installing FFmpeg for Video Transcoding (Optional)

Installing FFMpeg is only required if you will be transcoding videos into a Flash-based output. It is not required to upload, ingest, or play Flash videos with MediaRich CORE Server. MediaRich Server must be fully installed and operational prior to executing the FFmpeg install.

To install FFmpeg for the MediaRich server:

1. Download the Windows version of ffmpeg.exe
<http://ffmpeg.zeranoe.com/builds>
Use the static 32-bit build (even on a 64-bit OS). Generally, the build with the most recent timestamp will work.
2. Open the tarball using 7-Zip or another archive utility.
3. Navigate to the “bin” folder and copy the ffmpeg.exe file.
4. Add the file to ..\MediaRichCore\Bin\MediaEngine folder.
The default path is C:\Program Files\Equilibrium\MediaRichCore\Bin\MediaEngine

Note: If you receive a (missing DLL error) message during the FLV transcodes, it means you could have installed the shared library version. You must go back and install the correct one.

Setting Up the Initial Server Configuration

Before proceeding with licensing your MediaRich installation, ensure that the service user you selected during installation has Read/Write permission for the MediaRichCore\Shared folder and all subfolders. If installing the Web Server extension, also ensure that the anonymous user for the root of the default Web server has read permission for the MediaRichCore\Shared folder and all subfolders, and write permission for the MediaRichCore\Shared\Logs folder.

Initial Configuration

When you first install MediaRich server, complete the following tasks to enable the system:

1. If it is not already open, launch the MediaRich CORE Administration Utility by double-clicking **MediaRich CORE Admin** in the Equilibrium\MediaRich CORE Admin folder.
2. Login using the default credentials: User **admin**, Password **admin**.

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3. When the User Interface appears, select **Install a License File**.
 4. Locate and select the unzipped license file.
 5. Click the **Configure** button to open the MediaRich Server Options dialog.
 6. Check if the Virtual Drives points to the desired Drive you like to use for the Server Cache:
 - VideoProxy: file Location for the preview Clips
 - batchout: target location for the MediaCart Results
 - merchandizer (no changes needed)
 - mrdocs (no changes needed)
 - pyramid: file location for the Pyramid Zoom files
 7. Click **Start Server**.

If the three indicators are green, the Server portion of the installation was successful.

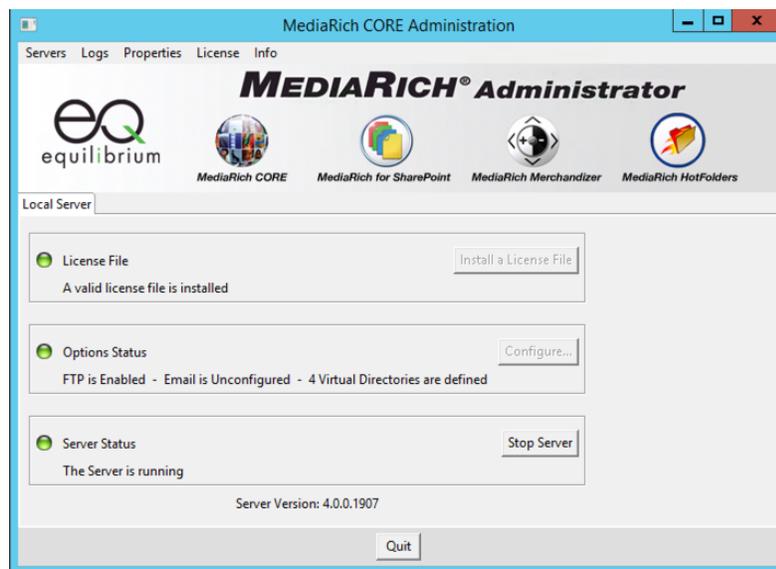


Figure 1: Successful start of the server

You can make additional configuration changes and additions after you verify a successful installation. To make these changes, you must stop the server. Click **Stop Server**; the status of the server will change when the server is stopped.

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