



## Installing the eRez Imaging Server x64 Windows files

### Contents

What is x64?.....	2
Preparing installation of the x64 Windows files.....	2
Installing the x64 Windows files .....	3
Using IIS integration under x64 Windows .....	3

### What is x64?

32-bit operating systems, unfortunately, limit applications to a theoretical 4 GB of RAM, of which only half is typically available in real-world deployments. Under 32-bit Windows we do not recommend to allocate more than 1.25 GB of RAM to the Java Virtual machine (JVM) running Apache Tomcat and eRez. It is possible to tweak the JVM to allocate as much as 1.6 GB of RAM for the Java heap – but chances are good that this will make the server very unstable, because the JVM itself will not be able to allocate RAM for internal usage and therefore crash with an “out of memory” condition.

With a true 64-bit operating system, such as the Windows x64 editions, your servers can utilize up to 32 GB of RAM and there is no problem allocating more than 1.25 GB of RAM to the JVM running Tomcat and eRez.

Under normal conditions 1.25 GB of RAM should be plenty for the eRez Imaging Server – but if you have a server with 64-bit Windows OS and plenty of RAM, you might as well make use of it.

For this reasons, YaWah has prepared binaries optimized for Intel’s 64-bit EM64T instruction set.

### Preparing installation of the x64 Windows files

The folder “x64 windows files” contains the following 5 files which you will need:

```
x64 windows files\jakarta.reg  
x64 windows files\eRez Server.exe  
x64 windows files\iis\isapi_redirect.dll  
x64 windows files\service\erez-service.exe  
x64 windows files\tomcat\bin\tcnative-1.dll
```

In addition you will need to download and install a 64-bit version of Java.

At the time of writing the most recent and recommended version is the “Windows x64 Platform - Java(TM) SE Runtime Environment 6 Update 1” which you can download via this link: <http://java.sun.com/javase/downloads/>.

### Installing the x64 Windows files

After installing the x64 version of Java, you must stop the Tomcat/eRez server and replace the following files in the erez5 installation directory with those from the "x64 windows files" directory:

Replace "eRez Server.exe" by "x64 windows files\eRez Server.exe"

Replace "iis\isapi\_redirect.dll" by "x64 windows files\iis\isapi\_redirect.dll"

Replace "service\erez-service.exe" by "x64 windows files\service\erez-service.exe"

Replace "tomcat\bin\tcnative-1.d" by "x64 windows files\tomcat\bin\tcnative-1.d"

All the binary files are now in place and you may start the Tomcat/eRez server and verify that everything is running as expected. The eRez "Server Status" page will tell you which Java version is running.

When you have verified that the server runs as expected, you can modify the amount of memory allocated to the JVM as described in the installation guide.

### Using IIS integration under x64 Windows

If you want to use a local IIS server as a front-end to your eRez server, there is one more step that you need to do.

We already installed a x64 version of the "isapi\_redirect.dll" as part of the steps above – but in order for this filter to work, it needs to read the location of the configuration files from the Windows Registry. During the installation of eRez, these settings were written to the registry – but because the eRez Installer itself is a 32-bit application, the settings are written to "HKEY\_LOCAL\_MACHINE\SOFTWARE\Wow6432Node\Apache Software Foundation" rather than "HKEY\_LOCAL\_MACHINE\SOFTWARE\Apache Software Foundation".

This is done to prevent 32-bit registry settings from overwriting the 64-bit registry settings as described here: <http://support.microsoft.com/kb/896459>

But, since the IIS will be a 64-bit version it will not be able to read the 32-bit settings. We will therefore need to add the settings under "HKEY\_LOCAL\_MACHINE\SOFTWARE\Apache Software Foundation" manually.

The "x64 windows files\jakarta.reg" file contains the registry settings assuming that your eRez installation was placed in "C:\Program Files (x86)\yawah\erez5".

If your eRez installation is placed in "C:\Program Files (x86)\yawah\erez5" you can simply double click on the file "x64 windows files\jakarta.reg" to add the settings to the Windows registry.

If your eRez installation is placed in a folder other than "C:\Program Files (x86)\yawah\erez5", you will need to use a text editor such as Wordpad to edit the 3 occurrences of "C:\Program Files (x86)\yawah\erez5" to match your installation directory.

To complete the IIS integration, simply follow the instructions in the document [eRez Imaging Server 5 and IIS Integration](#).