

ResCartaWeb

Installation and Setup Guide



ResCartaWeb is a product of ResCarta® Foundation, Inc. La Crosse, Wisconsin.

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This document provides installation and setup instructions for ResCartaWeb.

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Introduction to ResCartaWeb

ResCartaWeb is a web browser-based application for accessing your ResCarta[®]-format digital materials within the familiar environment of a web browser. Use ResCartaWeb to browse or search the digital materials in your collection, review search results, and view documents.

Storing your documents in the ResCarta format preserves those materials in *searchable*, high quality TIFF images that are easy to read and print. The ResCarta Toolkit allows you to create, manage, manipulate, and check the ResCarta-formatted data accessed by ResCartaWeb, as well as add books or objects from your ResCarta data. For more information about ResCarta and its standards, and the ResCarta Toolkit, please refer to the ResCarta Foundation, Inc. website (<http://www.rescarta.org>).

This guide assists you in installing and configuring ResCartaWeb. Detailed information on using ResCartaWeb is included in the online Help system.

System Requirements

You must meet certain system requirements *before* installing ResCartaWeb for the application to function properly.

Hardware recommendations (server):

- Intel® Pentium® 4 1.8 GHz processor
- 1.0 GB RAM

Note: ResCartaWeb can run on a server with 512 MB RAM, but more RAM improves performance, particularly for multiple simultaneous users

- 15 MB available disk space for ResCartaWeb software
- Additional disk space proportional to the projected expansion of your ResCartaWeb data

Note: These are *suggested* minimum hardware requirements for the server on which ResCartaWeb resides.

Software recommendations (server):

- Sun® Microsystems Java™ Runtime Environment (JRE) 1.5.0 or greater

Note: The latest version of the JRE is always recommended, and can be downloaded from the Java website at: <http://www.java.com>

Tip: To determine whether a machine already has a JRE installed, from the Windows **Start** menu, select **Settings**, and then select **Control Panel**. Control Panel opens. If Java is installed, it will appear in the list. Double-click **Java** to open the Java Control Panel, and on the **General** tab, click **About**. The About Java window appears. If the version of the installed JRE is *1.5.0 or greater*, the computer meets the JRE requirement for installing ResCartaWeb.

After you install the JRE (and before you install ResCartaWeb or Tomcat; see next item), you must create an environment variable *for the JRE* (for detailed instructions, refer to **Setting environment variables**, page 2).

- Apache™ Tomcat 5 or greater (binary distribution, Windows Service Installer **.EXE**) (<http://tomcat.apache.org/download-55.cgi>)

Note: The latest version of Tomcat is always recommended, but you should uninstall previous versions before installing newer ones. Refer to documentation available from the Tomcat download site for more information on installing Tomcat.

- Any Microsoft® Windows®, Linux®, or Apple® Mac OS® operating system that is supported by both the Java Runtime Environment (JRE) *and* Tomcat.

Important! Both the JRE *and* Tomcat must be installed and functioning *before* you install ResCartaWeb.

Setting environment variables (server with Windows operating system):

Note: The **JAVA_HOME** environment variable should be set following installation of the JRE and prior to the installation of Tomcat or ResCartaWeb.

1. Open the Environment Variables dialog.

Right-click **My Computer** and from the menu that appears, select **Properties**. The System Properties dialog appears. Select the **Advanced** tab, and click the **Environment Variables** button.

2. Create a new environment variable.

- In the Environment Variables dialog, in the **System variables** section, click the **New** button.
- The New System Variable dialog appears. Enter the appropriate **Variable Name** and **Variable Value**:
 - o To create the environment variable for the JRE, enter **JAVA_HOME** for the **Variable Name** and enter the *path to the directory in which JRE is installed* for the **Variable Value**.
For example, the path to the directory in which JRE version 1.5.0 (update 8) is installed by default is: **C:\Program Files\Java\jre1.5.0_08**

- Click **OK** to save the environment variable and close the New System Variable dialog.

3. Click **OK** to close the Environment Variables dialog, and then click **OK** to close the System Properties dialog.

Software recommendations (client):

- Internet Explorer 6.0 or greater, Mozilla Firefox™ 1.5 or greater, Safari™ 1.0 or greater, or Opera 8.0 or greater.

Installation and Setup

Before you install ResCartaWeb on your server computer, carefully review “System Requirements” (see page 2) and be sure that your machine meets the specified requirements. Also be sure that you’ve set the **JAVA_HOME** environment variable (see page 2).

Note: While ResCartaWeb may be installed on other operating systems (as indicated in “System Requirements”), information in this document is specific to Microsoft® Windows® systems. For information on installing ResCartaWeb on other operating systems, please contact the ResCarta Foundation at info@ResCarta.org

To install ResCartaWeb (on the server computer):

1. Download the **ResCarta-Web.zip** file from http://www.rescarta.org/R_Tools.htm and unzip it into a temporary directory.

Note: The version number of **ResCartaWeb** is also included as the last part of its **.zip** file name, but is not included in this document.

Important! There are two ResCartaWeb downloads available. The larger download, which includes **_src** at the end of its **.zip** file name, contains the entire ResCartaWeb source project; this document addresses only the use of the smaller download, which does *not* include **_src** at the end of its **.zip** file name.

2. Copy the **ResCarta-Web** subdirectory from the temporary directory to the **webapps** subdirectory of the directory in which Tomcat is installed (see page 2).

For example, if you unzipped **ResCarta-Web.zip** into the **C:\RCW** temporary and the directory you installed Tomcat in **C:\Program Files\Apache Software Foundation\Tomcat 5.5**, copy the **C:\RCW\ResCarta-Web** subdirectory to **C:\Program Files\Apache Software Foundation\Tomcat 5.5\webapps\ResCarta-Web**

3. If your ResCarta data is located on a network computer *other than the server machine*, you must grant the Tomcat “Log On As A Service” right to a user account *with permissions to the computer on which your ResCarta data is located* (network account):

- Open the Apache Tomcat Properties (Local Computer) dialog:
From the Windows **Start** menu, select **Settings**, and then select **Control Panel**. Control Panel appears. Double-click **Administrative Tools**. The Administrative Tools window appears. Double-click **Services**. The Services window appears. Double-click **Apache Tomcat**.
- Change the Tomcat “Log On As A Service” right (permission) from a local system account to a network account:
 - o On the **Log On** tab of the Apache Tomcat Properties (Local Computer) dialog, select **This account** and click **Browse** to open the Select User dialog.
 - o In the Select User dialog, select a network account *with permissions to the computer on which your ResCarta data is located*. Click **OK** to save your selection and close the Select User dialog.
 - o Enter the **Password** for the account you selected and **Confirm password**. Click **OK** to save your selection and close the Apache Tomcat Properties (Local Computer) dialog.

- A Microsoft Management Console message appears to confirm that the account you selected has been granted the Tomcat “Log On As A Service” right. Click **OK** to close this message.
Note: If Tomcat is running when you changed the “Log On As A Service” right, your new logon name will not take effect *until Tomcat has been stopped and restarted* (refer to documentation available from the Tomcat download site for information on starting and stopping Tomcat).
- Close the Services window, and then close the Administrative Tools window.

To set up ResCartaWeb (on the server computer):

Note: The only *mandatory* server computer setting is the location of your ResCarta data; changing inline metadata and document display settings and ResCartaWeb’s logo is optional.

1. Specify the *data root* (location of your ResCarta data) in the **web.xml** file (this file is located in ResCartaWeb’s **WEB-INF** subdirectory).

For example, if you installed Tomcat in **C:\Program Files\Apache Software Foundation\Tomcat 5.5** (see page 2), you specify the data root in:

C:\Program Files\Apache Software Foundation\Tomcat 5.5\webapps\ResCarta-Web\WEB-INF\web.xml

- Open ResCartaWeb’s **web.xml** file in a text-editing program such as Notepad.
- *Mandatory:* In the **<context-param>** section labeled with the description “Root dir for ResCarta index and image data.,” specify the path to your ResCarta data between **<param-value>** and **</param-value>**, replacing the existing text there.

For example, if your data root is the **RCDATA01** directory on your **C** drive, the data root section of your **web.xml** file should be:

```
<context-param>
  <description>Root dir for ResCarta index and image data.</description>
  <param-name>data_root</param-name>
  <param-value>C:\RCDATA01</param-value>
</context-param>
```

Note: If you make changes in the **web.xml** file *while Tomcat is running*, you may need to start and stop Tomcat (refer to documentation available from the Tomcat download site for information on starting and stopping Tomcat) before the changes take effect. You may also need to refresh web browsers that were open when the changes were made.

2. *Optional:* Select inline metadata and document display settings (this setting is also specified in ResCartaWeb’s **web.xml** file; for information on the location of this file, refer to the preceding step).

Note: Inline metadata and document display settings are set to display by default; this means that original settings are for ResCartaWeb to display options for the user to be able to expand or hide inline metadata and documents, as needed, within the main ResCartaWeb page.

- Open ResCartaWeb’s **web.xml** file in a text-editing program such as Notepad.
- In the **<context-param>** section labeled with the description “Enable inline metadata viewing.,” specify **true** (the default value) between **<param-value>** and **</param-value>** to enable the user’s ability to expand or hide metadata in ResCartaWeb; specify **false** to disable the user’s ability to expand or hide metadata.

For example, if you want to enable inline metadata viewing, this section of your **web.xml** file should be:

```
<context-param>
  <description>Enable inline metadata viewing.</description>
  <param-name>inline_metadata_viewing</param-name>
  <param-value>>true</param-value>
</context-param>
```

Note: When inline metadata viewing is disabled, there is *no* other way for the user to view expanded metadata. The user will still be able to view title and author information when browsing titles, searching, or viewing documents (inline, if enabled, or in ResCartaWeb’s **Document View**).

- In the **<context-param>** section labeled with the description “Enable inline document viewing.,” specify **true** (the default value) between **<param-value>** and **</param-value>** to enable the user’s ability to expand or hide documents in ResCartaWeb; specify **false** to disable the user’s ability to expand or hide documents.

For example, if you want to disable inline document viewing, this section of your **web.xml** file should be:

```
<context-param>
  <description>Enable inline document viewing.</description>
  <param-name>inline_document_viewing</param-name>
  <param-value>>false</param-value>
</context-param>
```

Note: When inline document page viewing is disabled, the user can still view documents in ResCartaWeb’s **Document View**.

3. *Optional:* Select an image to appear as your ResCartaWeb *logo*.

Note: The default ResCartaWeb logo is the ResCarta® logo (shown here); the logo (if any) appears in the upper left corner of ResCartaWeb, across from the page title (see step 1). The recommended maximum size for the logo is 175 pixels wide by 125 pixels high (logos that exceed these dimensions will alter the page layout).



Save your image as **logo.jpg** and store it in the **webapps\ResCarta-Web\images** subdirectory of the directory where you installed ResCartaWeb.

For example, if you installed Tomcat in **C:\Program Files\Apache Software Foundation\Tomcat 5.5** (see page 2), you should save your logo as: **C:\Program Files\Apache Software Foundation\Tomcat 5.5\webapps\ResCarta-Web\images\logo.jpg**

Note: The image name (**logo.jpg**) is case-sensitive; it must be *lower-case* to be incorporated into ResCartaWeb.

At this point, as long as Tomcat is running (refer to documentation available from the Tomcat download site for information on starting Tomcat) and the location of your ResCarta data is specified correctly (refer to “To set up ResCartaWeb,” step 1), ResCartaWeb is available from any computer that meets the client software requirements (see page 2) via:

- **http://servername:8080/ResCarta-Web/jsp/RcWebBrowse.jsp** (where **servername** is the machine name of your server computer)

- **http://localhost:8080/ResCarta-Web/jsp/RcWebBrowse.jsp** (where **localhost** is the IP address of your server computer)

Note: The web address of ResCartaWeb is *case-sensitive*; upper and lower case letters in the web address must match exactly.

ResCarta Foundation, Inc.

Contact ResCarta Foundation, Inc. with comments or questions about ResCarta standards, or the Foundation and its goals:

info@rescarta.org

<http://www.rescarta.org>

Contact ResCartaWeb technical support with comments or questions about ResCartaWeb:

techsupport@rescarta.org

<http://www.rescarta.org/FAQs.asp>