SPECCHIO

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# Introduction

SPECCHIO is a spectral database combined with user-friendly interface software designed to store spectral data acquired by spectroradiometers and associated metadata.

SPECCHIO was first developed at the Remote Sensing Labs at the Geography Department, University of Zurich to support long term usability and data sharing between researchers. It was then further enhanced through a project run by the University of Wollongong in 2012/2013. This project was supported by the Australian National Data Service (ANDS). ANDS is supported by the Australian Government through the National Collaborative Research Infrastructure Strategy Program and the Education Investment Fund (EIF) Super Science Initiative.

SPECCHIO is an Italian word meaning “mirror” or “looking glass”. It can also be used to refer to a table of data or a scoreboard.

## Document scope

SPECCHIO uses a Client-Server architecture. This User Guide details operation of the Client component of SPECCHIO only.

## Intended audience

This document assumes that readers are familiar with...

* remote sensing and the disciplines and processes related to it.
* the general operation of their own computer.
* the general concept of a client-server architecture.

## SPECCHIO ownership and access

SPECCHIO was originally built by the Remote Sensing Laboratories at the University of Zurich, and extended by Intersect for the School of Earth and Environmental Sciences at the University of Wollongong.

## Copyright and licensing

SPECCHIO is licensed under the Creative Commons Attribution-ShareAlike 3.0 Unported Licence. Therefore its source is readily available for inspection and development. It can be found in LICENCE.html and at http://creativecommons.org/licenses/by-sa/3.0/.

## For Further Information

Please refer to the following documents for more information about SPECCHIO. Unless otherwise stated, they can be found in the SPECCHIO Installation kit.

**SPECCHIO\_ReleaseNotes.pdf** can be found in each Installation Kit and provides installation instructions for the SPECCHIO Client.

**SPECCHIO\_Tutorial.pdf** provides instruction in the operation of key areas of the SPECCHIO Client.

**SPECCHIO\_ServerInstallation.pdf** provides system administrators with information to assist in managing and maintaining a SPECCHIO Server System.

**SPECCHIO Web Site (**[www.specchio.ch](http://www.specchio.ch)) General information about SPECCHIO. Some of this information may be related to other non-UOW versions of SPECCHIO.

**SPECCHIO UoW (**https://specchio.uow.edu.au)Installation kits for University of Wollongong version of the SPECCHIO Client and documentation for that version.

**SPECCHIO GitHub (**<https://github.com/IntersectAustralia/dc10>) Source code for the University of Wollongong version of SPECCHIO.

# Installation and Configuration

## Before you install

SPECCHIO requires that Java Runtime Environment (JRE) version 1.6 or higher is already installed on your computer before installing SPECCHIO itself. To check the Java version on your system open a command window under Windows, or a terminal for Macintosh or UNIX systems, and type:

java -version

The output will be similar to:

java version "1.7.0\_17"

Java(TM) SE Runtime Environment (build 1.7.0\_17-b02)

Java HotSpot(TM) Client VM (build 23.7-b01, mixed mode, sharing)

If you do not have Java installed, or the version number is less than 1.6, you should install an appropriate version of the Java Runtime Environment (JRE) from the internet at <http://www.oracle.com/technetwork/java/javase/downloads/index.html>.

## Installing the SPECCHIO Application Bundle

The SPECCHIO application plus the libraries it uses are supplied as an application bundle in JAR file format. The installation bundle is usable on Windows, Mac and Unix systems.

1. Open specchio-client-installer.jar by double-clicking on it, or executing java -jar specchio-client-installer.jar from the command line.
2. Follow the prompts to install the software into a directory of your choice.

## Launching the SPECCHIO Application

### Windows

The installer creates a folder on the “Start” menu. This folder contains options for launching SPECCHIO on both 32-bit versions and 64-bit versions of Windows. Select the option that matches your version of Windows.

### Mac OS X

Open Finder, and navigate to the folder into which you installed SPECCHIO. Navigate to the macosx folder and double-click on specchio.

### Unix and Linux

Navigate to the folder into which you installed SPECCHIO. If using a graphical interface that supports it, you may be able to start the application by double-clicking on specchio-client.jar. Otherwise, execute java -jar specchio-client.jar from the command line.

## Creating a User Account

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| Start the SPECCHIO client application.  Select Database, then Create a new user account from the main menu.  Complete the server details as follows:  Web Application Server: specchio.uow.edu.au  Port: 443  Application Path: /specchio\_service  Press  Connect .  Complete the title, first name, last name, institute, e-mail and WWW fields as desired.  The first name, last name, institute and e-mail are required.  Add new institutes as necessary using the  Add new institutes...  button.  SPECCHIO will not send any e-mail to the e-mail address entered and the address is not visible to other users.  Press  Create .  You should see a message saying that an account has been created and its details added to your configuration file. |

The account username and password are automatically stored in the configuration file (db\_config.txt). You do not need to know or record them yourself.

## Using SPECCHIO

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| Select Database, then Connect to database from the main menu.  If you have only created one account, this account should be selected in the Known connections selector, and the dialogue should be pre-filled with the account details.  If you have created more than one account, you can choose between them using the Known connections selector.  Press  Connect . |

You are now ready to use SPECCHIO as described in the User Guide.