

# **RTView Deployment Options**

## **- Thin Client, Browser-based**

## Display Server

- With the Display Server, display (.rtv) files can be downloaded as an AJAX application to a web browser. This allows displays to be viewed in a browser without a plug-in being downloaded or executed on the client.
- Displays can be set to update periodically, so it is not necessary to refresh or reload the browser
- Users can drill down from “hot spots” on the rendered display.
- RTView widgets are rendered as AJAX controls.

### Requirements:

- Running the Display Server requires that a JSP servlet be installed on the application server. The servlet communicates with the Display Server via socket to request rtv displays to be rendered in the browser.
- RTView provides a Tomcat application server with the install. The server is referred to as the “demoserver”.
- RTView must be installed on the host where the Display Server will run.

## Display Server – Display Servlet Deployment

- Installing the Servlet
  - RTV\_HOME/servlets/rtvdisplay directory contains files (JSP, HTML, classes, properties) necessary to run the JSP servlet.
  - Build war using “make\_war.bat” (requires JDK)
  - Deploy war file to app server.
  - Use “install\_to\_tomcat.bat” if using Tomcat. JWS\_ROOT points to Tomcat install directory
- The JSP servlet reads the file rtvdisplay.properties.
  - DisplayServerHost=localhost
  - DisplayServerPort=3279
  - DisplayServerTimeout=15
  - DefaultRefreshInterval=15
  - LoginEnabled=false
  - AllowDrillDownInPlace=true

## Display Server

- Running the Display Server
  - Go to the directory containing your display (.rtv) files
  - Type

```
run_displayserver.bat -daemon -verbose
```
- Displaying .rtv images
  - Open an HTML page (index.html) with navigation frame:

```
http://<servlethost>:<port>/rtvdisplay/index.html
```
  - Open a specific display in the browser:

```
http://<servlethost>:<port>/rtvdisplay/getdisplay.jsp?display=MyDisplay
```
  - View multiple display panels in an HTML file (panels.html) with frames:

```
http://<servlethost>:<port>/rtvdisplay/panels.html
```

## Display Server

### Features

- The Display Server will generate AJAX widgets for combo box, list box, text entry, button, and check box controls, and table.
- Tables – able to sort and resize columns.
- Mouseover enabled.
- Supports Fx graphs

## Exercises

### Ex 1: Install the rtvdisplay servlet to your application server (e.g., Tomcat)

1. cd to RTV\_HOME/servlets/rtvdisplay
2. modify rtvdisplay.properties if needed (e.g., to change port)
3. if (2), then type make\_war.bat to rebuild war
4. rename rtvdisplay.war to <projectname>.war if desired
5. copy rtvdisplay.war (or <projectname>.war) to tomcat webapps directory

RTV\_HOME/servers/apache-tomcat-6.0.18-sl/webapps

6. start up tomcat by typing

run\_startup\_demoserver.bat

### Ex 2: Launch the Display Server in your Class directory

1. run\_displayserver -verbose -daemon
2. Bring up images from the browser

<http://localhost:8068/rtvdisplay/panels.jsp>