

IBM Daeja ViewONE Virtual



Virtual Viewer Setup Guide

Version 4.1

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Note

Before using this information and the product it supports, read the information in “Notices” on page 16.

This edition applies to Version 4 Release 1 Modification 0 of IBM® Daeja ViewONE Virtual (product number 5725-Q04) and to all subsequent releases and modifications until otherwise indicated in new editions.

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Product	Website
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Introduction

IBM® Daeja® ViewONE® Virtual is an HTML-based viewer that extends your web browser so that you can view, zoom, magnify, scroll, pan and rotate your images and image documents quickly and easily.

Previous versions of IBM Daeja ViewONE used a Java applet that required a browser with the installed Java plug-in to download and cache the applet on the client machine. This applet was then used to render the images client-side.

IBM Daeja ViewONE Virtual is for use on systems that either do not or cannot support the Java plug-in. With the advent of the Virtual viewer, all the work is carried on the server so that the viewer, associated images, and other relevant data are streamed to the client device.

This removes the need for anything other than an installed browser on the client machine to be able to view, manipulate, and annotate images.

IBM Daeja ViewONE Virtual has two modes of operation because it has been developed to work with a standard desktop configuration and with most mobile devices such as tablets and phones. The IBM Daeja ViewONE Virtual viewer automatically detects the platform on which it is running and selects the appropriate user interface for that platform.

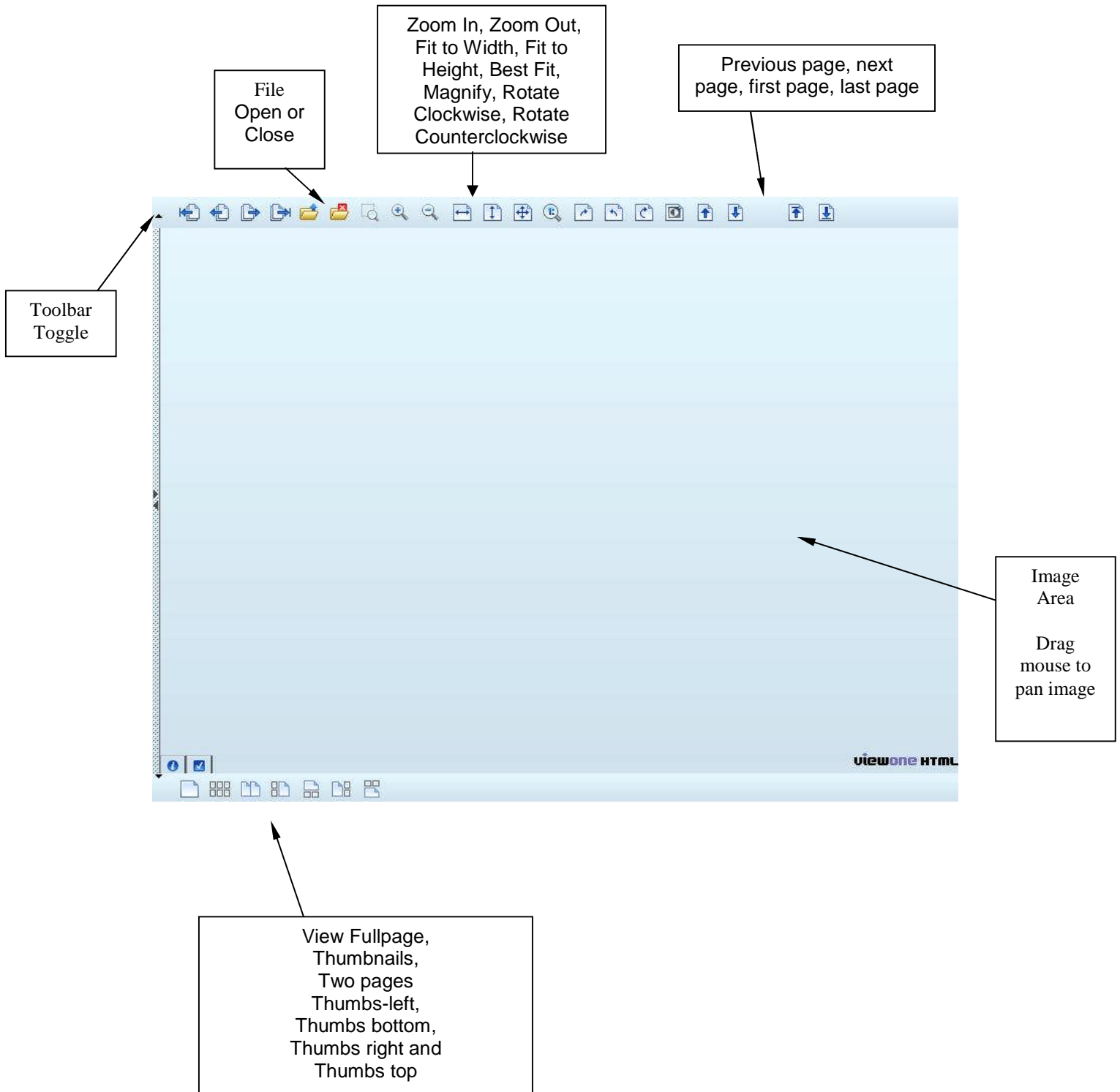
The desktop and mobile user interfaces are significantly different because of the decreased amount of screen space that is available on mobile devices.

This document is the setup guide for the IBM Daeja ViewONE Virtual Viewer

Further documentation on the HTML parameters, JavaScript methods, and server-side properties for configuring the IBM Daeja ViewONE Virtual viewer are available to download from the following web page:

<http://www.ibm.com/support/docview.wss?uid=swg27041437>

The IBM Daeja ViewONE Virtual Desktop User Interface



Deployment

IBM ViewONE Virtual is deployed as a Java servlet rather than a set of files as is the case with the applet version of the viewer. Therefore, you must use a Java web application server of your choosing. The procedure for setting up the IBM Daeja ViewONE Virtual viewer depends on the web application server and varies in detail depending on which web application server you choose.

However, the principles of deployment are the same for any web application server and are described in the *IBM Daeja ViewONE Servlet Setup Guide*. Follow the steps in that guide to deploy the core IBM ViewONE Virtual servlet.

Configuring the Client Viewer

The next stage is to set up the web page that loads the viewer. You can set up the web page by using either HTML5 or later or by using JavaScript and the Object tag to inject the viewer.

The following code samples assume that you have mapped the servlet as shown in the sample web.xml file that is described in the *IBM Daeja ViewONE Servlet Setup Guide*. If this is not the case, substitute the <servlet-name> and <url-pattern> values that you have specified in the web.xml file in place of "viewone" and "v1files"

Correct use of HTML tags

One of the key aspects to the correct functioning of the HTML viewer is strict adherence to the HTML standard. Constructing a web page with HTML that falls outside of these standards can cause errors.

To create an HTML-compliant web page correctly, you must at the minimum use the following notation for the HTML tags which start and end the page:

```
<!DOCTYPE html>
```

```
....code....
```

```
</html>
```

Cross Domain Installations

Because of the restrictions of cross domain origin policies, it is not possible to run the HTML code from one host while accessing the JavaScript files from another.

Therefore, always ensure that your code that runs the viewer is running from the same location as the server is installed or the viewer does not run.

HTML Approach

To use IBM Daeja ViewONE Virtual on your website, set up a web page on the web application server containing the following HTML:

```
<!DOCTYPE html>
```

```
<script type="text/javascript"  
src="/viewone/vlfiles/viewone.js"></script>
```

```
<OBJECT CLASS = "com.ibm.dv.client.Viewer"  
ID = "viewone"  
WIDTH = "600"  
HEIGHT = "600" >
```

```
<place additional HTML parameters here>
```

```
</OBJECT>  
</HTML>
```

Note: The "src" string in this code points to the IBM Daeja ViewONE ViewONE Virtual viewer servlet that generates the viewer dynamically.

If you set this up and the viewer fails to run, try specifying the full URL to the location of the servlet rather than a relative path.

JavaScript Approach

With the HTML approach, the viewer automatically detects the presence of the Object tag within the HTML page and starts up the viewer automatically.

However, if you are injecting the viewer using JavaScript, the viewer does not automatically detect this object tag. You must call the following function after the injection to start the viewer:

com.viewone.startViewer('viewone');

(where 'viewone' is the ID used in the object tag)

If you do not call this function, the viewer does not run and you end up with an empty object container on the screen and no viewer.

For example :

```
function appendViewer1()
{
var viewerCode = '<object class="com.ibm.dv.client.Viewer" id="viewone1"
width="900" height="600">' +
'<param name="filename" Value="http://myserver/sample.tif?&path=docs"/>' +
'</object>';

document.getElementById('container').innerHTML = viewerCode;

setTimeout(function()
{
com.viewone.startViewer("viewone1");
},500);
}
```

You must set and call this function from inside a timeout loop to ensure that the page has fully loaded before the viewer is started.

Customizing the Client Viewer

After you deploy the viewer, use the extensive set of HTML parameters and JavaScript methods described in the relevant reference manuals.

These parameters and methods allow you to configure the viewer to work in exactly the way you need and to customize the “look and feel” to fit in with the Enterprise Content Manager system you are integrating with.

The HTML parameters and JavaScript API are typically specified as part of the HTML page that sets up the viewer.

Configuring the IBM Daeja ViewONE Virtual Viewer Servlet

The <servlet-name>.properties file

While the viewer is configured with HTML parameters or the JavaScript API in the code of the web page that runs the viewer, the servlet is controlled by using the properties file that has the same name as the defined servlet.

This file contains the configuration parameters for the IBM Daeja ViewONE servlet and its setup and configuration is described in the *IBM Daeja ViewONE Servlet Setup Guide*.

Typical uses of this configuration file include:

- Adding trace parameters to enable debug output to a specified log file
- Adding parameters to control how the servlet controls its caching area
- Adding parameters that determine how documents are retrieved

To add property for the IBM Daeja ViewONE Virtual viewer, precede the property with the text “tile”, for example:

```
tile.tracenet=true
```

Refer to the *IBM Daeja ViewONE Server Properties Reference Manual* for further details on the properties that are available. This manual contains detailed descriptions of each property that can be added to the properties file and how that property affects viewer operation.

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