

IBM Daeja ViewONE Professional



Permanent Redactions Server Module 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 14.

This edition applies to Version 4 Release 1 Modification 0 of IBM® Daeja ViewONE Professional Edition (product number 5725-Q03) and to all subsequent releases and modifications until otherwise indicated in new editions.

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Introduction

IBM® Daeja® ViewONE® Professional Permanent Redaction Server module allows users to apply permanent markups to any IBM Daeja ViewONE supported documents. Redaction markups remove and block out any part of a page. Selecting the area to redact is done so that the user can concentrate on the removal of potentially sensitive information contained in the pages of a document.

Because the data underneath the redaction is permanently removed from the file, the new documents are safe to distribute.

The Permanent Redaction Server module is ideal therefore where high security is required and in applications where compliance dictates that, specifically where redaction features are offered, such redactions are unmovable and non-removable.

Recent directives for data storage and archiving of records have resulted in a requirement for redactions applied by users and administrators to become records themselves, retaining the redaction as part of the document's image data, in effect 'burning' the data into the image. The Permanent Redactions Server module satisfies this requirement.

The Permanent Redaction Server module is a Java server component which requires the IBM Daeja ViewONE Professional Annotations Module and is flexible enough to allow integrations into any document back-end system.

The Permanent Redaction Server module is a Java servlet. IBM supplies free sample servlet code or you can write your own servlet by using the Java Burn Library interface.

In addition, for batch or automated processing, you can also use the Burn Library interface on its own without a client or servlet to produce redacted documents on demand by using your own template scheme.

Prerequisite Requirements

The setting up and configuration of the Permanent Redaction Server module requires that you have a working knowledge of the client-side viewer and familiarity with deploying a web application on your preferred web application server.

Unless you are using an existing Enterprise Content Manager system where the redactions module has already been written and integrated, there is also a requirement for a development resource to write and be responsible for the burner server-side code that interfaces with the back-end repository where images and annotation data are stored.

Annotation burning

The Permanent Redactions Server module can provide the user with the ability to annotate documents with various annotation types. Some examples of these types include text, stamps, highlights, and redactions.

The Permanent Redactions Server module offers storage of this annotation data separately from the document. This has many benefits but is not always the required solution. For more information on annotations, refer to the *IBM Daeja ViewONE Annotations Setup Manual*.

Image burning allows the user to permanently make changes to a document by creating a new TIFF Group 4 image. Such changes might include redacting sensitive information or applying a received stamp to a document. IBM Daeja ViewONE meets this requirement in this burn module.

The functionality requires a server-side component which does the actual burning and requires integration with a document management system that is to use it.

The Permanent Redactions Server module performs the burning on the server rather than the client to minimize network traffic. If burning is performed on the client, the newly burned image must be sent back to the server each time a burn operation is performed thus causing excessive network traffic and unnecessary delays.

Instead, the IBM Daeja ViewONE client sends only the minimum amount of data to the server to permit the server to apply the necessary annotations and redactions. The server then retrieves for itself the required images before burning.

After the burn process is complete, the servlet can then store the newly created TIFF images in your repository. The server side burn feature is available as a Java library and there is sample servlet source code that you can edit to integrate into your specific repository or back-end system.

To further minimize network traffic, after the burn process is complete, the viewer disables editing of the burned annotations rather than reloading the newly created TIFF image. By taking this approach, there is no need to redownload the new image for viewing.

Deployment

The Permanent Redactions Server module is deployed as a Java servlet. Therefore, you must use a Java web application server of your choosing. The procedure for deploying the redaction libraries 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* so you should follow the steps in this guide to deploy the Permanent Redactions Server module.

Configuring the Client Viewer

The changes required in your viewer HTML are minimal since the `annotationBurnURL` parameter takes care of the construction of the URL to include the Permanent Redaction Server module and assembles all available cookies for inclusion with the request. It also ensures that the annotation data is delivered in the expected XML format to the Permanent Redactions Server.

After the Permanent Redaction Server module is installed, you only need to make some minor code changes to link it in with the IBM Daeja ViewONE Professional client-side viewer as follows:

(Note that 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")

Modifying the applet definition

It is important that the "mayscript" applet element is present in the `<applet>` definition so that the client can correctly obtain the browser's cookies. If it is not, you see errors in the client's Java console and you find that the Document Streaming Server module cannot stream documents from a document repository that requires a login. The correct way to specify the `mayscript` parameter is as follows:

```
<applet mayscript="true" name="IBM Daeja ViewONE" ...
```

It is not sufficient to use the `<param name="mayscript" value="true">` method.

Setting up the Permanent Redaction Server Module URL

The main inclusion required to enable the Permanent Redaction Server module is to point the `annotationBurnURL` HTML parameter (or JavaScript equivalent) to the location of the Permanent Redaction Server module servlet. Effectively, you are pointing to the location of the deployed Java libraries using either the full URL or a relative path, for example:

```
<PARAM NAME="annotationBurnURL"  
value="http://localhost:8080/viewone/v1files/redaction">
```

Specifying “Burnable” Annotation types

This parameter needs to be set up on the client and specifies which annotation types are to be treated by the viewer as burnable (instead of as a separate saved layer). For example:

```
<PARAM NAME="annotationDefaults" value="redact {burnable=true}">
```

Directing the Output File

The redaction module generates a new file which should be directed back to the client by setting the following client-side parameter:

```
<PARAM NAME="receiveRedacted" value="true">
```

Setting up the annotation format

Finally you need to add the following two parameters

```
<PARAM NAME="annotationBurnFormat" value="native">
```

```
<PARAM NAME="annotationEncoding" value="utf8">
```

These parameters and other Permanent Redaction Server module-specific HTML parameters and JavaScript methods are documented in the *IBM Daeja ViewONE Parameters Reference Manual* and the *IBM Daeja ViewONE JavaScript Reference Manual*.

Configuring the Permanent Redaction Server module

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 own caching area
- Adding further parameters that determine how documents are retrieved

To add property for the Permanent Redactions Server module, you should precede the property with the text “redaction”, for example:

```
redaction.traceBurn = 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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