

IBM Daeja ViewONE Standard
IBM Daeja ViewONE Professional



Server Properties Reference Manual

Version 4.1

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Note

Before using this information and the product it supports, read the information in "Notices" on page 27.

This edition applies to Version 4 Release 1 Modification 0 of IBM® Daeja ViewONE Standard Edition (product number 5725-Q02) and 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® is a web-based image viewer that extends your web browser so that you can view, zoom, magnify, scroll, pan, rotate and print your images and image documents quickly and easily.

IBM Daeja ViewONE is provided as a modular product that allows you to extend this functionality to include additional format support, annotations (mark ups), and server-side components designed for performance optimization and additional functionality.

This document is the *IBM Daeja ViewONE Server Properties Reference Manual* and lists all the properties available for configuring the server-side elements of the viewer and is primarily designed for integrators of the product.

For further information about IBM Daeja ViewONE, consult the documentation available to download from here:

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

Server Properties

The following list describes the optional properties that you can use to configure and customize the server-side elements of IBM Daeja ViewONE Professional and the IBM Daeja ViewONE Virtual viewer.

The properties are in the following property configuration files deployed on the web server alongside the application itself (for example, in the WEB-INF folder):

IBM Daeja ViewONE Virtual viewer – `viewone.properties`

IBM Daeja ViewONE Professional Document Streaming Server Module –
`streamer.properties`

IBM Daeja ViewONE Professional Permanent Redaction Server module –
`burner.properties`

The general format for adding a property to the properties file HTML is as follows:

```
"name"="value"
```

Where *name* is replaced by the property name and *value* is replaced by the property value.

File names and hyperlink addresses are expressed using the internet URL address format (Uniform Resource Locator), for example "http://mysite/myimage.tif". If any part of the address before "myimage.tif" is not included, the applet assumes a base address, which is the same as the applet location (the codebase).

With the exception of file names and hyperlink addresses, all parameters are case insensitive.

Logging

Property:

logFile

Requirements:

IBM Daeja ViewONE Streaming Server Module, any version
IBM Daeja ViewONE Permanent Redactions Server Module, any version
IBM Daeja ViewONE Virtual, any version

This parameter value can either be a file name or a special identifier `<stdout>`. In the case of a file name, logging information that is output during operation is stored in the specified file. If using the special identifier, logging is directed to standard out which in most cases means it appears in the web application server's log files.

If left blank, then logging is disabled. Note that any backslashes (\) should be entered as a double backslash. It can be in the form of an absolute path or relative.

The default value of this parameter is un-set (so no logging occurs).

Examples

```
logFile=c:\\viewer\\viewer.log
```

```
logFile=<stdout>
```

Property:

logFileSize

Requirements:

IBM Daeja ViewONE Streaming Server Module V4.0.34 or later
IBM Daeja ViewONE Permanent Redactions Server Module V4.0.34 or later
IBM Daeja ViewONE Virtual V4.0.34 or later

This parameter is used to control how often the servlet “rolls over” its cache file when it reaches the specified size (in Kb) at midnight each day. So if the log file has reached the specified value it creates a new log file with a number included (starting at “1”) that is the maximum set minus 1. See logFileCount for further details of how these files are cycled.

The valid size units for this parameter are b (bytes) kb (kilobytes) mb (megabytes) gb (gigabytes).

The default value is 5120kb. The minimum value that can be used is 512kb.

Example

```
logFileSize=30mb
```

Property: **logFileCount**

Requirements: *IBM Daeja ViewONE Document Streaming Server Module V4.0.34 or later*
IBM Daeja ViewONE Permanent Redactions Server Module V4.0.34 or later
IBM Daeja ViewONE Virtual V4.0.34 or later

This parameter is used to control how many log files the servlet keeps when it “rolls over” its cache file based on the specified size set in the logFileSize property at midnight each day. So if the streamer log file has reached the specified value it creates a new log file with a number included (starting at “1”) that is the maximum set minus 1.

For example, if you have set logFileCount to 10 and the log file name is “log.txt” then the oldest log file is named “log_9.txt” and most recent is named “log_1.txt”.

The default value is 10. The minimum value that can be used is 2.

Example

```
logFileCount=5
```

Cache Control

Property: cacheRoot

Requirements: *IBM Daeja ViewONE Document Streaming Server Module, any version*
IBM Daeja ViewONE Permanent Redactions Server Module, any version
IBM Daeja ViewONE Virtual, any version

It should be noted that in a production environment, this property value should be specified.

This parameter controls where the servlet keeps its cached document store. There are size controls for this store (see configuration below).

Note that any backslashes (\) should be entered as a double backslash. It can be in the form of an absolute path or relative. If it is specified as relative, then it is relative to the root of the web application (the deployed streamer directory).

If a value for this property is not specified in the properties file, the default value is WEB-INF/data/<servletname>. Where <servletname> is the name of the servlet as defined in the web.xml.

Examples

```
cacheRoot=c:\\streamerdemo\\cache  
cacheRoot=cache (relative path to web application root directory)
```

Property: cacheEmptyOnRestart

Requirements: *IBM Daeja ViewONE Document Streaming Server Module, any version*
IBM Daeja ViewONE Virtual, any version

This parameter controls whether all the cached documents in the Document Streaming Server Module's document store are expired when the Document Streaming Server Module servlet has been restarted. It is advised to set this parameter to false as one of the advantages of the Document Streaming Server Module is that it caches streamed documents ready for fast retrieval next time they are accessed.

Valid values for this parameter are true or false. The default value is false.

Example

```
cacheEmptyOnRestart=false
```

Property: **cacheCheckTime**

Requirements: *IBM Daeja ViewONE Document Streaming Server Module, any version*
IBM Daeja ViewONE Virtual, any version

This parameter is used to control how often the Document Streaming Server Module evaluates its cache to see whether it needs expiring. The criteria for whether the cache needs expiring are determined by the cacheSizeLimit and cacheAgeLimit parameters.

The valid time units for this parameter are s (seconds) m (minutes) h (hours) d (days) w (weeks).

The default value is 1h.

Example

```
cacheCheckTime=1h
```

Property: **cacheSizeLimit**

Requirements: *IBM Daeja ViewONE Document Streaming Server Module, any version*
IBM Daeja ViewONE Virtual, any version

This value is the size that the cache should be kept to. It is a soft limit meaning that the cache might exceed this value between the last time a cache check was performed and the time left before the next check is done (specified by cacheCheckTime). If the cache is found to exceed this size limit, cached document data is deleted from it, oldest first, until the size is back within the limit.

The valid size units for this parameter are b (bytes) kb (kilobytes) mb (megabytes) gb (gigabytes).

The default value is 100mb.

Example

```
cacheSizeLimit=100mb
```

Property: **cacheAgeLimit**

Requirements: *IBM Daeja ViewONE Document Streaming Server Module, any version*
IBM Daeja ViewONE Permanent Redactions Server Module, any version
IBM Daeja ViewONE Virtual, any version

This parameter determines the maximum age of a document in the cache. It is a soft limit meaning that documents in the cache might exceed this value between the last time a cache check was performed and the time left before the next check is done (specified by `cacheCheckTime`). If data for a document inside the cache is found to exceed this age limit, the cached document data is deleted from it.

The valid time units for this parameter are s (seconds) m (minutes) h (hours) d (days) w (weeks).

The default value is 1d.

Example

```
cacheAgeLimit=1d
```

Property: **openDocumentWaitTime**

Requirements: *IBM Daeja ViewONE Document Streaming Server Module, any version*
IBM Daeja ViewONE Permanent Redactions Server Module, any version
IBM Daeja ViewONE Virtual, any version

This parameter determines the amount of time to wait before opening a second instance of a document that is already in the streamer cache. This should only be used where it is likely that a large document that is being pre-cached is viewed at the same time and the page to be viewed has not yet been generated.

The default value is 0s which blocks the viewing of a page yet to be generated until the pre-cache process has completed.

Example

```
openDocumentWaitTime=2s
```


General

Property: **docURLPrototype**

Requirements: ***IBM Daeja ViewONE Document Streaming Server Module***

This is the prototype for the URL that is passed to the HTTP repository store when a user requests a file through the Viewer or Document Streaming Server Module. Tokens can be specified as part of this prototype using `${` to start the token and `}` to end it. The values for these tokens are taken from the URL that the server was called with.

The simplest method of using this configuration parameter is to use the `originalDocURL` token name. See the section entitled “Simple File name Configuration” under “Configuring the IBM Daeja ViewONE Professional viewer for use with the Document Streaming Server Module”.

Alternatively, a more complex method is available which provides greater control over the URL. You can substitute values from the original request URL. For example, assume that your Document Streaming Server Module URL (which is specified in the file name parameter in the HTML page for the IBM Daeja ViewONE Professional client) is:

```
http://localhost:8080/viewone/streamer?path=images&file=test
```

Your `docURLPrototype` is:

```
http://host/fileserver?type=${path}&name=${file}
```

The resulting request is to:

```
http://host/fileserver?type=image&name=test
```

The default value is `${originalDocURL}`.

Examples

```
docURLPrototype=${originalDocURL}
```

```
docURLPrototype=http://host/repository/${file}
```

Special tokens:

Requirements: *IBM Daeja ViewONE Document Streaming Server Module V1.1.172 or later*

Sometimes it is necessary to rewrite or alter a document repository URL because the streamer's view of the network is different than that of the browser. This difference might be due to a firewall (such as port redirection, IP address remapping) or network configuration (such as DNS resolution differences). For example, to obtain a document from within the browser, a sample URL might read:

```
http://docstore.myhost.com/docserver?id=29
```

The same document request for the streamer in our fictitious intranet might read:

```
http://docstore:8080/docserver?id=29
```

There is a selection of special tokens that can be used to cater for this situation. These tokens allow you to extract discrete parts of the original document repository URL such as the protocol (for example, http or https) or the port (for example, 80, 8080, 443). Listed below is the complete list - each of the examples listed next to the tokens are based on the URL sample above:

```
${originalDocURL.protocol}, for example, http
```

```
${originalDocURL.host}, for example, docstore.myhost.com
```

```
${originalDocURL.port}, for example, 80 (Note, if no port is  
supplied, 80 is the default)
```

```
${originalDocURL.path}, for example, /docserver
```

```
${originalDocURL.query}, for example, id=29
```

```
${originalDocURL.authority}, for example, docstore.myhost.com
```

For the sample above, we need to remap both the host name and the port, this would be achieved with the following (there should be no line breaks in the configuration file):

```
docURLPrototype=${originalDocURL.protocol}://docstore:8080${originalDocURL.path}?  
${originalDocURL.query}
```

This value for `docURLPrototype` takes any host name from the incoming document repository URL and replace it with "docstore:8080".

Property: **docIdPrototype**

Requirements: **IBM Daeja ViewONE Document Streaming Server Module, any version**

`docIdPrototype=${originalDocURL}`

In order for the Document Streaming Server Module to work, it needs to be able to identify every document uniquely internally. If you are using a value of `${originalDocURL}` for `docURLPrototype`, then by its nature it represents a unique identifier for the document and as a result the `docIdPrototype` can be set to the same value. In most cases, this is an adequate setting, but if you access documents by using a proxy which might result in differing URLs for the same document, then you should consider the more advanced usage of `docIdPrototype` below.

The unique identifier can alternatively be built up directly from your original Document Streaming Server Module URL in a similar fashion to the `docURLPrototype`; tokens can be specified as part of this prototype using `${` to start the token and `}` to end it. The values for these tokens are taken from the URL that the Document Streaming Server Module was called with. For example, if your Document Streaming Server Module URL (which is specified in the file name parameter in the HTML page for the IBM Daeja ViewONE Professional client) is:

`http://hostname/streamer/streamer?docId=89&version=20`

And your `docIdPrototype` is:

`docIdPrototype=${docId}-${version}`

Then the resulting unique id is: 89-20

The default value is `${originalDocURL}`.

Property: **sessionAuthenticationTimeout**

Requirements: **IBM Daeja ViewONE Document Streaming Server Module, any version**
IBM Daeja ViewONE Virtual, any version

After the time specified by this parameter, the user is re-authenticated with the document repository. This is to cater for cases where a user is already viewing a document but access to it is revoked in the middle of viewing. The user is not able to view any subsequent parts of the document after they have been revoked access.

The valid time units for this parameter are s (seconds) m (minutes) h (hours) d (days) w (weeks).

If this parameter is not specified then no session authentication caching is performed.

Example

sessionAuthenticationTimeout=60s

Property:

sessionCookieList

Requirements:

IBM Daeja ViewONE Document Streaming Server Module, any version
IBM Daeja ViewONE Permanent Redactions Server Module /IBM Daeja ViewONE Virtual, any version

sessionCookieList=JSESSIONID

A comma-separated list of cookies that must be present on the request from the client if they have been specified with this configuration parameter.

An empty value indicates to the Document Streaming Server Module that the document repository does not use authentication and all authentication is disabled.

To set up cookie forwarding within IBM Daeja ViewONE, use the HTML parameter `cookieAllowedDomainList` (see *IBM Daeja ViewONE Parameters Reference Manual*).

If your document repository requires a user to be logged in before they can retrieve documents then the value of this parameter is important. It indicates to the Document Streaming Server Module which cookies should be forwarded to the document repository for authentication purposes. It should consist of a comma-separated list of cookie names that are used by the document repository to identify individual logged in users. An asterisk (*) wildcard is acceptable, so if this parameter was specified as:

sessionCookieList=ASPSESSION*

Then the following named cookies (for example) would be forwarded to the repository:

ASPSESSION1293

ASPSESSIONID

If your document repository does not use authentication, leave the value of this parameter empty and authentication is disabled.

If this value is not specified in the properties file it defaults to JSESSIONID.

Property: **signInResource**

Requirements: *IBM Daeja ViewONE Document Streaming Server Module, any version*
IBM Daeja ViewONE Permanent Redactions Server Module, any version
IBM Daeja ViewONE Virtual, any version

If a user makes a request for a document and the session has expired, then the web server usually returns a redirect status (302 - moved temporarily). In this case, we use extra logic to check if the user has been logged out by looking at the Location: header field for the string specified by signInResource. If this string is found, then the Document Streaming Server Module knows that user has been logged out.

If this parameter is unspecified then no attempt is made to see if a user has been logged out by a document repository. If the document repository doesn't support sessions or logins then this value can be left unspecified.

The default value is unspecified.

Example

```
signInResource=SignIn.jsp
```

Property: **serverSupportsHeadRequestMethod**

Requirements: *IBM Daeja ViewONE Document Streaming Server Module, any version*
IBM Daeja ViewONE Virtual, any version

When set to true (the default), this parameter uses the HTTP HEAD method for collecting information about a document without retrieving the entire document over the network. Support of this feature allows for more efficient protocol dialog. If the document repository server does not support the HEAD method or it does not return meaningful values for HTTP header fields such as Content-Length, Content-Type, or Last-Modified, then this should be set to false.

The default value is "true".

Example

```
serverSupportsHeadRequestMethod=true
```

Property: **modifiedDocumentMinimumCheckTime**

Requirements: ***IBM Daeja ViewONE Document Streaming Server Module, any version***
IBM Daeja ViewONE Virtual, any version

This parameter is used to control how often the Document Streaming Server Module checks back with the document repository to see if a particular document has been modified since it was last accessed. As the name implies, the Document Streaming Server Module checks no more often than the time specified in this parameter. The reason for this parameter is that it is more efficient at a network level to avoid re-querying the document repository every time a document is accessed. If you really want the repository to be queried with every document access, a value of 0 should be supplied, however this is not recommended.

The valid time units for this parameter are s (seconds) m (minutes) h (hours) d (days) w (weeks).

If a value for this property is not specified in the properties file, the default value is 120s.

Examples

```
modifiedDocumentMinimumCheckTime=5m  
modifiedDocumentMinimumCheckTime=1d
```

Property: **modifiedDocumentCheckMethod**

Requirements: *IBM Daeja ViewONE Document Streaming Server Module, any version*
IBM Daeja ViewONE Virtual, any version

For optimum Document Streaming Server Module performance, documents are cached by the Document Streaming Server Module. It is therefore important that the Document Streaming Server Module does not send out-of-date documents to users if the document has changed since the Document Streaming Server Module cached the document.

lastmodified

Most document repositories provide an HTTP header called “Last-Modified” to tell the client an idea of when a document was last change. The Document Streaming Server Module can use this information when the value of this parameter is set to lastmodified. If you are serving up files from an HTTP server, this is probably the correct option.

uniqueid

An alternative to using modified dates, some document repository systems rely on the fact that an updated document has a different document identifier from the original document. In these situations, the modified date becomes irrelevant and you should set the value of the parameter to uniqueid so that the Document Streaming Server Module knows to take this into account. It is important when using this mode that the URL for one document version is not the same as the URL for a different version of the same document.

If a value for this property is not specified in the properties file, the default value is lastmodified.

Examples

```
modifiedDocumentCheckMethod=lastmodified  
modifiedDocumentCheckMethod=uniqueid
```

Property: documentExpiryTime

Requirements: *IBM Daeja ViewONE Document Streaming Server Module, any version*
IBM Daeja ViewONE Virtual, any version

This parameter controls for how long that a document is kept in memory after it has been accessed. The internal counter is reset for every access and after no more accesses have occurred after the time specified in this parameter, the document is closed. The ideal value for this parameter is the length of time that the average user browses pages in a single document. Setting this parameter to a high value is counter-intuitive as it keeps resources tied up on the server.

The valid time units for this parameter are s (seconds) m (minutes) h (hours).

If a value for this property is not specified in the properties file, the default value is 120s.

Example

```
documentExpiryTime=120s
```

Property: poolInitialEntryCount

Requirements: *IBM Daeja ViewONE Document Streaming Server Module, any version*
IBM Daeja ViewONE Permanent Redactions Server Module, any version
IBM Daeja ViewONE Virtual, any version

This parameter controls the number of concurrent document “holders” that is initially created when the Document Streaming Server Module servlet is initialized. This value grows automatically up to the limit of poolMaxEntryCount. It is provided as a fine-tuning option and can be safely left at its default value of 1.

If a value for this property is not specified in the properties file, the default value is 1.

Example

```
poolInitialEntryCount=1
```


Property: `poolMaxEntryCount`

Requirements: *IBM Daeja ViewONE Document Streaming Server Module, any version*
IBM Daeja ViewONE Permanent Redactions Server Module, any version
IBM Daeja ViewONE Virtual, any version

This parameter controls the maximum number of concurrent documents that is held open in memory. A low value (for example 1) results in low server memory usage but can cause bottlenecks if you have more than one user viewing separate documents that have not been processed by the Document Streaming Server Module. A large number might be limited by the amount of memory your web application server has available but it might improve performance for the situation when many users are viewing un-cached documents.

If a value for this property is not specified in the properties file, the default value is 1000000.

Example

```
poolMaxEntryCount=10
```


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