



Shutdown Dialog Changes

Last Updated: 12th February 2010

Copyright Daeja Image Systems. All Rights Reserved.

Email: info@daeja.com

Web site: <http://www.daeja.com>

Contents

<i>Introduction</i>	3
<i>Details of Changes</i>	4
<i>Testing and Configuration Details</i>	6
<i>Configuration Parameter Settings Summary</i>	7

Introduction

From Version X.1.160 of the viewer, users will now see a difference in the appearance of the "Shutdown dialog" which is displayed for unsaved annotations.

Due to changes in the Java runtime environment (Java 1.6.0_10 onwards) it is possible for annotation data to be lost because the viewer is shut down whenever the user closes the browser or reloads/navigates away from the page. This may happen where the user refreshes the browser page, by clicking the browser "refresh", changes the page being viewed, using the "forward\back" buttons, or quits the browser, by clicking the browser "X" button.

To prevent potential annotation data loss a change has been implemented that provides exactly the same behaviour as in Java versions up to 1.6.0_10, but with a new shutdown dialog.

Annotation saving in the viewer may be configured in one of two ways:

(a) Prompt users to save any unsaved annotation changes on closing the viewer with a refresh\reload\exit of the browser.

(b) Automatically save annotation changes on closing the viewer with a refresh\reload\exit of the browser .

By **default**, the viewer is configured to use option **(a)**. This will prompt the user regarding unsaved annotation changes on quitting the applet (note: so the **default** behaviour is that the parameter "annotationAutoPrompt" parameter is set to "True").

The alternative option **(b)** is to configure the viewer to automatically save changes on quitting the applet. To do this use the "annotationAutoSave" parameter set to "True". The saving of annotation data will still occur as it always has.

So the **ONLY** relevant configuration for enabling the viewer to automatically save annotation changes is to set the following single parameter:

```
<param name="annotationAutoSave" value="True">
```

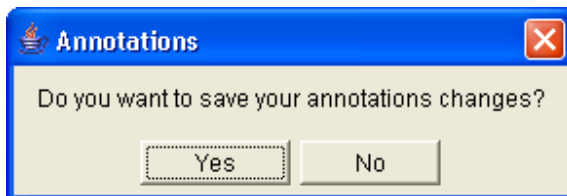
Important Note So there is **NO** change to the existing behaviour of the viewer with this change – only the appearance of the Shutdown dialog itself. However, Daeja has included a parameter for users on older JRE versions who want to maintain existing behaviour and to do this, you should set the following parameter:

```
<param name="InstallJSSShutdownHandler" value="False">
```

By default, this parameter is set to "True".

Details of Changes

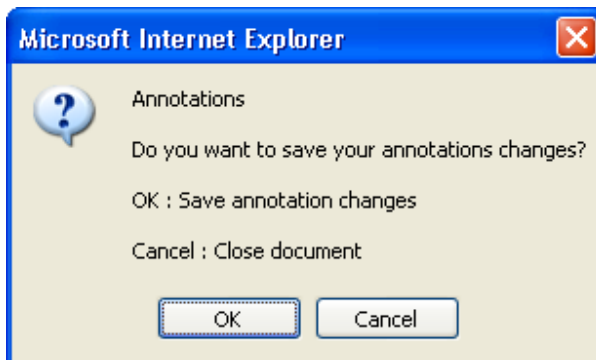
Until the release of the Sun JRE 1.6.0_10, the viewer handled this case from within the Java engine (JRE) itself. So where a user had made changes to annotation data and attempted to quit the viewer (via one of the browser buttons as described in previous section) they would get a prompt from the JRE that looked like this:



With the advent of JRE 1.6.0_10, this is now no longer possible since Sun have introduced a change to the JRE that means it runs entirely in its own process and the JRE itself shuts down quite independently of the browser. So it was no longer possible to guarantee that all unsaved annotation data would be saved with the approach of doing this within the JRE – since the JRE could quite feasibly have shutdown before all saved changes had occurred.

So the change that has been made is to handle the shutdown dialog from within the browser itself – so the viewer now automatically installs its own "shutdownHandler" in the unload event of the browser itself.

So from version X.1.160 of the viewer or later, regardless of the JRE and browser used, the prompt now comes from the browser itself:



So the "OK" button is the exact equivalent of the "Yes" button from previous dialog message and similarly the "Cancel" button is the exact equivalent of the "No" button from previous dialog message.

The reason for the difference in the message layout is that Java Script does not have full control over the appearance of the dialog and has to rely on what is available to the browser – hence the change from a "Yes\No" dialog to "OK\Cancel" dialog.

Important Notes This new approach makes use of Java Script so it is important that this has not been disabled in the browser configuration for this functionality to work.

Note also that you MUST also have the MAYSCRIPT parameter set to "True" within the applet tag declaration itself (and not as a separate parameter). For example:

```
<APPLET CODEBASE= ".../v1files"  
  ARCHIVE = "viewone.jar"  
  CODE = "start.jiViewONE.class"  
  NAME = "viewONE"  
  WIDTH = "95%"  
  HEIGHT = "95%"  
  HSPACE = "0"  
  VSPACE = "0"  
  ALIGN = "middle"  
  MAYSCRIPT = "true">
```

So you need to be aware that if it is declared outside of the Applet tag like this:

```
<param name="MayScript" value="True">
```

...then the new shutdown dialog functionality may NOT work.

Testing and Configuration Details

Whilst there is effectively little difference as far as the end user is concerned, these changes have obviously been extensively tested by Daeja across a wide range of browsers and Java engines to ensure that there are no problems.

It is important to understand that the Java engine (JRE) being used is no longer relevant with the new approach – but the new configuration was tested across the full range of JRE's from 1.4.2 through to 1.6.0_14 to ensure that this was the case.

Much more relevant is the browser used with this approach and this was again tested extensively across a range of operating systems, browsers and versions and this approach is supported by the following browsers:

IE6, IE7, IE8, Mozilla Firefox, Google Chrome and Safari

In detail, the tested platforms (under Windows XP/Vista operating systems) were as follows:

	JRE Family				MS JVM
Browser	1.4.2_10	1.5.0_09	1.6.0_06	1.6.0_18	5.0.0.3810
IE 6	√	√	√	√	√
IE 7	√	√	√	√	√
IE 8	-	-	√	√	n/a
Firefox 3.5	√	√	√	√	n/a
Firefox 3.6	√	√	√	√	n/a
Chrome 2.2	n/a	n/a	n/a	√	n/a
Safari 4.0	√	√	√	√	n/a
Opera 9.64	Not supported	Not supported	Not supported	Not supported	n/a

Testing for Mac OS X 10.4:

	JRE Family	
Browser	1.4.2_21	1.5.0_19
Firefox 3.5	√	√
Firefox 3.6	√	√
Safari 3.0	√	√
Safari 4.0	√	√

Configuration Parameter Settings Summary

PARAMETER SETTINGS	BEHAVIOUR
annotationAutoSave=False* annotationAutoPrompt=True*	User is prompted
annotationAutoSave=True annotationAutoPrompt=<not set>	Annotation data is auto-saved
annotationAutoSave=False* annotationAutoPrompt=<not set>	User is prompted
annotationAutoSave=<not set> annotationAutoPrompt=True*	User is prompted
annotationAutoSave=<not set> annotationAutoPrompt=False	User is NOT prompted Annotation data is NOT saved
annotationAutoSave=True annotationAutoPrompt=False^	User is NOT prompted Annotation data is NOT saved

* Default setting where not specified

^ Note that as per the documentation in the Annotations manual, this is because the "annotationAutoPrompt" parameter ALWAYS over-rides any setting to the "annotationAutoSave" parameter