

JDocLint Getting Started Guide



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About JDocLint

JDocLint parses SolBook XML documents to verify whether they are ready for publication. Because JDocLint is Java based, you can use it on any operating system. You can run JDocLint either at the command line in a terminal window or from within oXygen Author. This guide provides information about what JDocLint does, how to use JDocLint, the types of errors that are reported by JDocLint, and how to interpret these errors.

For detailed information about individual errors and their causes and solutions, see [JDocLint Troubleshooting Guide](#).

What JDocLint Does

JDocLint helps ensure that your SolBook XML document is ready for publication. You must run JDocLint at least once before sending the book to translation. Best practice is to validate your document on a regular basis while you are writing and editing.

Note - Unlike the automatic XML validation performed by oXygen Author as you work, JDocLint performs its validation only when you run the tool.

JDocLint checks for the following issues:

- **XML validity** – JDocLint verifies that your SolBook XML markup is valid.
- **Accessibility compliance** – For legal and corporate reasons, your documents must include alternative descriptive text for tables and illustrations so they are accessible to those with disabilities. JDocLint checks for missing alternative text for these elements.

For more information about how to write and insert alternative text, see [Chapter 13, "Writing Alternative Text for Nontext Elements,"](#) in *Systems Editorial Style Guide* and [Accessibility Guidelines](#) on the IDG Infobot department web site.

- **Legal files, copyright information, and publisher information** – JDocLint verifies that this information is up to date.
If the information is not correct, from within oXygen Author, choose SolBook → Update Book and select the relevant item to update (Book Info or Legal).
- **Links** – JDocLint checks whether the links in your document correspond to the correct sections and are correctly formatted.

Note - At the current time, some errors related to Link Manager are being incorrectly issued. If you have run `lmupdate` and `lmresolve` and you still encounter Link Manager errors, please check your book manually to verify that the information in your document is correct.

For more information about links and the Link Manager used to insert and update links, see [Chapter 8, “Creating and Modifying Links,” in *oXygen Author User’s Guide*](#)

- **Archive validity** – JDocLint verifies that all the files for your document are checked into the PTSVN archive and that the book information registered in PTSVN matches what is printed in the book.
If the book information is not correct, from within oXygen Author, choose SolBook → Update Book and select Book Info.
- **Translation and editorial compliance** – To ensure compliance with *Systems Editorial Style Guide* and make translation more efficient, JDocLint provides some checks for key editorial issues.

Using JDocLint

You can run JDocLint either from within oXygen Author or at the command line in a terminal window. Validating in oXygen Author enables you to easily go directly to where the error occurs in your document instead of having to interpret the JDocLint error log file and find the error yourself. However, you might want to run JDocLint at the command line to quickly ascertain whether your document contains any errors.

You can run JDocLint on individual chapters as well as entire manuals.

JDocLint Validation Scopes

You can determine the scope of the validation that JDocLint performs. The possible validation scopes are:

- **Fatal errors only** – Finds only fatal errors, which include invalid XML, PTSVN archive problems, or missing alternative text for tables or illustrations.
- **Registration information only** – Validates the information in the BookInfo element against the information listed in the PTSVN archive. This information includes the legal files, the copyright information, and document information such as the book title and part number.
- **Don't validate olinks** – Does not validate internal links to the current document or other documents. Use this option only if you have already run `lmupdate` and `lmresolve` on your documents.
- **Don't validate ulinks** – Does not validate links to external web sites.

About JDocLint Errors

This section describes the types of errors that JDocLint finds, the error display in oXygen Author, and the contents of the `jdoclint.log` log file.

For detailed information about individual errors and their causes and solutions, see [JDocLint Troubleshooting Guide](#).

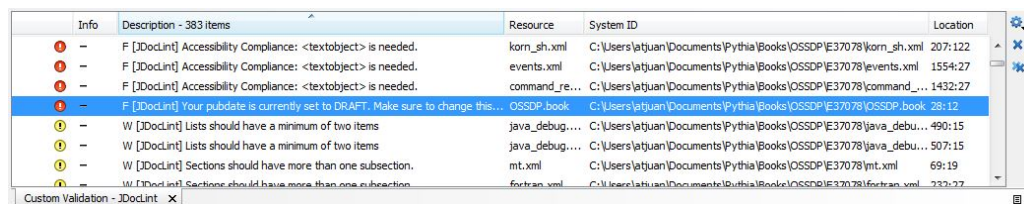
JDocLint Error Types

JDocLint categorizes errors as fatal errors, errors, and warnings.

- **Fatal Errors** – Errors that you must fix immediately. These types of errors could cause other production tools to fail or cause the document not to be compliant with company standards.
- **Errors** – Errors that are not fatal but that you should fix before final check-in to the PTSVN archive to be sent to the translation center.
- **Warnings** – Errors that are not crucial but that you should fix if time permits. The majority of these errors are style guideline problems that create inconsistencies in our documentation and could cause extra translation time. You can ignore these warnings while continuing to work on your document.

Error Message Display in oXygen Author

oXygen Author displays error messages in a validation panel that resembles the following example.



Info	Description - 383 items	Resource	System ID	Location
❗	F [JDocLint] Accessibility Compliance: <textobject> is needed.	korn_sh.xml	C:\Users\atjuan\Documents\Pythia\Books\OSSDP\E37078\korn_sh.xml	207:122
❗	F [JDocLint] Accessibility Compliance: <textobject> is needed.	events.xml	C:\Users\atjuan\Documents\Pythia\Books\OSSDP\E37078\events.xml	1554:27
❗	F [JDocLint] Accessibility Compliance: <textobject> is needed.	command_re...	C:\Users\atjuan\Documents\Pythia\Books\OSSDP\E37078\command_re...	1432:27
❗	F [JDocLint] Your pubdate is currently set to DRAFT. Make sure to change this...	OSSDP.book	C:\Users\atjuan\Documents\Pythia\Books\OSSDP\E37078\OSSDP.book	28:12
⚠	W [JDocLint] Lists should have a minimum of two items	java_debug....	C:\Users\atjuan\Documents\Pythia\Books\OSSDP\E37078\java_debu...	490:15
⚠	W [JDocLint] Lists should have a minimum of two items	java_debug....	C:\Users\atjuan\Documents\Pythia\Books\OSSDP\E37078\java_debu...	507:15
⚠	W [JDocLint] Sections should have more than one subsection.	mt.xml	C:\Users\atjuan\Documents\Pythia\Books\OSSDP\E37078\mt.xml	69:19
⚠	W [JDocLint] Sections should have more than one subsection.	fortran.xml	C:\Users\atjuan\Documents\Pythia\Books\OSSDP\E37078\fortran.xml	723:77

Each error message provides the following information in oXygen Author. Scroll horizontally to see all of these columns in the validation panel.

- **Info** – Indicates at a quick glance whether the error is an error (red exclamation point) or a warning (yellow exclamation point).

- **Description** – Begins with an initial letter showing the type of error: F for fatal errors, E for errors, or W for warnings. Provides a description of the error and the entity name if the error is within an entity.
- **Resource** – The file that contains the error.
- **SystemID** – The full path to the file that contains the error.
- **Location** – The line number and column number where you can find the error in Text mode, for example, 367:7.

Log File Error Display

When you run JDocLint, a log file with the default name `jdoclint.log` is created and placed in the directory from which you ran JDocLint. If you run JDocLint from within oXygen Author, the default log file location is your *DocID/part-number* book directory, where *DocID* is the document's shortname. To change the `jdoclint.log` location or name, change the information in the Log File field of the Generate PDF window or use the `-logfile filename` option of the `jdoclint` command with a new path.

Sample content for the log file is shown in the following figure.

```
DocLint Log File Information
-----
Book: E99999, Creating and Using Oracle Solaris App
Directory: C:\Users\pbwriter\SOLAPP\E99999
Date: 2014/03/25 14:09:27
LogFile: jdoclint.log
-----

[Error] file:///C:/Users/pbwriter/SOLAPP/E39999/SOLAPP.book:33:20:Copyright year
in book: 2013 should match pubdate: 2014

[Fatal Error] file:///C:/Users/pbwriter/SOLAPP/E39999/SOLAPP.book:33:20:Invalid
copyright notice. Copyright holder should read: Oracle and/or its affiliates.
All rights reserved.

[Warning] file:///C:/Users/pbwriter/SOLAPP/E39999/SOLAPP.book/planning.xml:54:43:
Lists should have a minimum of two items
```

The log file entries provide the following information:

- Type of error (fatal error, error, or warning)
- File where the error occurs
- Line and column of the error location in the document text file
- Description of the error

For information about error types, see [“JDocLint Error Types” on page 9](#).

Validating Your Document With JDocLint

This chapter describes how to work with JDocLint from within oXygen Author and how to run JDocLint at the command line in a terminal window.

JDocLint and oXygen Author

This section describes how to verify the JDocLint installation in relation to oXygen Author and run JDocLint from within oXygen Author.

▼ How to Verify the JDocLint Installation

Before running JDocLint from within oXygen Author for the first time, make sure that it is installed properly.

1. **In your local oXygen Author installation directory, navigate to the `frameworks` directory and then to the `tools` directory.**



Caution - If this directory is not present, you cannot run JDocLint from within oXygen Author. Contact the Tools team at SYSTEMS_IDG_DOCTOOLS_SUPPORT_US@oracle.com.

2. **Verify that the following files are in the `tools` directory:**

- `doclint.bat`
- `doclint.sh`
- `doclint.jar`



Caution - If these files are not present, you cannot run JDocLint from within oXygen Author. Contact the Tools team at SYSTEMS_IDG_DOCTOOLS_SUPPORT_US@oracle.com.

3. **Launch oXygen Author.**

4. **Choose Options** → **Preferences** and in the **Editor** section, select **Custom Validation**.
5. **Select the JDocLint engine if it is not already selected and click Edit.**
6. **Verify that the settings are correct for your platform.**
 - Executable path
 - **Windows:** `${XMLEditorInstallDir}/frameworks/tools/doclint.bat`
 - **SunRay or MacOS:** `${XMLEditorInstallDir}/frameworks/tools/doclint.sh`
 - Workspace: `${XMLEditorInstallDir}/frameworks/tools/`
 - DTD: `${cf}`
7. **Click OK or make any necessary corrections and click OK.**

▼ How to Run JDocLint in oXygen Author

1. **Open a book or individual file in oXygen Author.**
2. **Click the JDocLint button in the toolbar.**

Note - If the JDocLint button does not appear in the toolbar, either right-click in the toolbar or choose **Window** → **Configure Toolbars**. Make sure that **Custom Validation Engines** is selected.

If your document is not saved, a confirmation dialog box appears asking whether to save it. Click **Yes**.

The status bar at the bottom of the oXygen Author window shows the message "Validation is in progress."

3. **Determine whether the validation was successful.**

When the validation process is complete, a green button appears with the message "Validation Results Available" and a panel titled "Custom Validation - JDocLint" appears showing both the JDocLint script messages and any error messages. Also, a `jdoclint.log` file is placed in your book directory.

- **If the only content in the panel consists of script entries (no exclamation points appear in the Info column), the validation was successful.**
- **If the panel contains errors and warnings, fix the errors and, time permitting, warnings.**
 - a. **In the panel, double-click an error message.**

The cursor moves to the location of the error. If JDocLint does not move your cursor to exactly where the error occurs, try switching to Text mode and then back to Author mode. Click the error again to recalibrate.

If the error is in an XInclude file, the inserted file will open for editing.

To see the full text of an error message, hover over the message. For information about the error types and display, see [“About JDocLint Errors” on page 9](#).

Tip - You can move between messages by using the arrow keys on your keyboard. You can also sort the messages by type rather than by location by clicking the Description title bar.

b. Fix the error and save the file.

For information about individual errors and their causes and solutions, see [JDocLint Troubleshooting Guide](#).

c. Continue fixing all errors.

d. Validate the file to verify that all of the errors are fixed.

- 4. To close the panel at the bottom of the window, click the X next to the panel name.**
- 5. Either continue working in your file or quit oXygen Author.**

Running JDocLint From the Command Line

Running JDocLint in oXygen Author enables you to find and fix errors quickly but you might want to run JDocLint at the command line occasionally to quickly ascertain whether your document contains any errors. When you run JDocLint from the command line in a terminal window, it returns errors in a log file.

Tip - To see brief help for the command options for the JDocLint utility, type `jdoclint` at the command line.

▼ How to Run JDocLint From the Command Line

- 1. Open a terminal window and navigate to your book or topic directory.**
- 2. Validate the document by running the `jdoclint bookfile` command.**

You can use the following options to limit the scope of the validation. For more information about the validation scopes, see [“JDocLint Validation Scopes” on page 8](#). The options are not case sensitive.

- -DocInfoOnly
- -FatalOnly
- -NoOlinks
- -NoUlinks

Note - Place command options before the bookfile name.

For example, to run JDocLint without checking links to external web sites:

```
# jdoclint -noulinks Test_book.xml
```

The terminal window shows the errors as they are found. When the validation is finished, a message appears saying All errors also printed to the logfile:jdoclint.log.

3. Open the jdoclint.log file and review any error entries.

For information about the content of the log file, see [“About JDocLint Errors” on page 9](#).

4. In oXygen Author, fix any reported errors.

For more information about running JDocLint in oXygen Author and fixing errors, see [“How to Run JDocLint in oXygen Author” on page 12](#).

For detailed information about individual errors and their causes and solutions, see [JDocLint Troubleshooting Guide](#).

5. Run JDocLint until it successfully completes without errors.