

JDocLint Troubleshooting Guide



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About Error Reporting in 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 the types of errors that JDocLint reports and their possible causes and resolutions.

For information about how to run JDocLint from within oXygen Author or at the command line, see [Chapter 2, “Validating Your Document With JDocLint,” in *JDocLint Getting Started Guide*](#).

Types of JDocLint Errors

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\37078\korn_sh.xml	207:122
F	[JDocLint] Accessibility Compliance: <textobject> is needed.	events.xml	C:\Users\atjuan\Documents\Pythia\Books\OSSDP\37078\events.xml	1554:27
F	[JDocLint] Accessibility Compliance: <textobject> is needed.	command_re...	C:\Users\atjuan\Documents\Pythia\Books\OSSDP\37078\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\37078\OSSDP.book	28:12
W	[JDocLint] Lists should have a minimum of two items	java_debug....	C:\Users\atjuan\Documents\Pythia\Books\OSSDP\37078\java_debu...	490:15
W	[JDocLint] Lists should have a minimum of two items	java_debug....	C:\Users\atjuan\Documents\Pythia\Books\OSSDP\37078\java_debu...	507:15
W	[JDocLint] Sections should have more than one subsection.	mt.xml	C:\Users\atjuan\Documents\Pythia\Books\OSSDP\37078\mt.xml	69:19
W	[JDocLint] Sections should have more than one subsection.	fortran.xml	C:\Users\atjuan\Documents\Pythia\Books\OSSDP\37078\fortran.xml	732:27

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 log file location is your *DocID/part-number* book directory, where *DocID* is the document's DocID ("shortname"). To change the `jdoclint.log` log file 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 full 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 [“Types of JDocLint Errors” on page 7](#).

◆◆◆ CHAPTER 2

JDocLint Utility Errors

This chapter describes general errors that might occur when running JDocLint. Note that not all of these errors will appear in the log file or oXygen Author validation panel.

Some utility errors might require you to file a bug in BugDB. For information about the BugDB process, see [Tools Bug/RFE Process](#) on the IDGX Infobot department web site.

Could Not Load Main Class

Error: could not find or load main class com.oracle.idg.doctools.doclint.cli.doclint

Solution: Check the properties and files in the *oxygen-install-dir/frameworks/tools* directory. For more information, see “[How to Verify the JDocLint Installation](#)” in *JDocLint Getting Started Guide*.

Cannot Run Program

Cannot run program /Applications/oxygenAuthorTest/frameworks/tools/doclint.sh error=13, Permission denied. JDocLint not found. Make sure it is installed properly. Process JDocLint exit code = -1234567

Solution: Add executable permissions to the script file:

- Windows: doclint.bat
- SunRay or MacOS: doclint.sh

Null Pointer Exception

Java.lang.NullPointerException

Solution: File a bug in BugDB against JDocLint. Provide the error message text and the book's DocID (shortname) and part number.

Java Error

Process JDocLint exit code = 1

Description: If this message appears in a terminal window while you are running JDocLint at the command line or in the validation panel in oXygen Author, the JDocLint process did not complete and no log file was generated.

Solution: File a bug in BugDB. Provide the error message text and the book's DocID (shortname) and part number.

Fatal Errors

You can run JDocLint so it finds only fatal errors, which include invalid XML, PTSVN archive problems, or missing alternative text for tables or illustrations.

Accessibility Compliance Fatal Errors

This section describes fatal errors related to providing alternate text for graphics and tables to meet accessibility requirements.

Accessibility Compliance: `<textobject>` is needed.

Accessibility Compliance: `<simpara>` is needed

Cause: These messages indicate that the `MediaObject` element is missing the required elements to provide alternative text.

Solution: Make sure that the `MediaObject` element contains a `TextObject` element that in turn contains a `SimPara` element in which you provide the alternative text for the graphic or table.

Alt text must be 10 to 150 characters

Cause: You either have too few or too many characters in your alternate text.

Book Information Fatal Errors

This section describes fatal errors related to the `BookInfo` element.

Copyright Fatal Errors

This section describes fatal errors related to the copyright statement.

Note - Not all copyright errors are fatal errors. If you encounter a copyright-related problem that is not described in this section, refer to [“Copyright Errors” on page 21](#) and [“Copyright Warnings” on page 24](#).

Invalid copyright notice. Copyright holder should read: Oracle and/or its affiliates.
all rights reserved.

Cause: The Update Book process currently inserts incorrect information in the Holder element within the Copyright element.

Solution: Overwrite the information in the Holder element with the correct text provided in the error message.

Not an integer to parse: TwoThousandThree

Cause: The Year element within the Copyright element contains non-integer text. Copyright years should be of the form 20xx where xx are integers.

Solution: Change the content of the Year element to the year in the PubDate element.

<year> element missing in <copyright>

Cause: The Year element within the Copyright element is missing.

Solution: Insert the Year and type the year data from the PubDate element into it.

Publisher Information Fatal Errors

The following errors indicate missing information in the Publisher element.

Publisher information is empty, add the publisher information

Publishername information is empty. Publishername element should read "Oracle Corporation".

Address information is empty

Empty street in publisher address. Address street element should read "500 Oracle Parkway".

Empty city name in publisher address. Address city element should read "Redwood City".

Empty state name in publisher address. Address state element should read "CA".

Empty postcode in publisher address. Address postcode element should read "94065".

Empty country name in publisher address. Address country element should read "U.S.A."

Solution: Provide the missing information either by choosing SolBook → Update Book → Book Info or providing the text manually.

The following errors indicate incorrect information in the Publisher element.

Invalid street in publisher address. Address street element should read "500 Oracle Parkway".

Invalid city name in publisher address. Address city element should read "Redwood City".

Invalid state name in publisher address. Address state element should read "CA".

Invalid postcode in publisher address. Address postcode element should read "94065".

Invalid country name in publisher address. Address country element should read "U.S.A."

Solution: Fix the incorrect information either by choosing SolBook → Update Book → Book Info or providing the text manually.

Entities in BookInfo Element Fatal Error

Text entities not allowed in <bookinfo>

Solution: Replace any text entities in the BookInfo element with plain text.

HelpSet and Topic Levels Fatal Error

<task> is not supported by the processing tools as a child of <helpset> if <helpset role="topicbook">. Move <task> to be a child of <topicgroup> instead.

Cause: Although inserting a Task element as a direct child of HelpSet is permitted, the processing tools do not have a template to process this structure if the *role* attribute of HelpSet is set to "topicbook."

Solution: Move the Task to be a child of TopicGroup instead.

ID Attribute Fatal Error

ID attribute value cannot be empty

Solution: Provide a value for the ID attribute of the element either by typing a value directly or by selecting the element and choosing SolBook → Generate ID.

Language Validation Fatal Error

Value for lang attribute permitted only if *element* language is different than lang attribute *value* for <bookinfo>

Cause: An element should have a value for the *lang* attribute only if the content of the element is written in a language other than the language specified in the BookInfo element's *lang* attribute.

Solution: Remove the value for the *lang* attribute unless the content of the element is written in a language other than the language specified in the BookInfo element's *lang* attribute.

Link Manager Registration Information Fatal Errors

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 the following errors, please check your book manually to verify that the information in your document is correct.

DocID "*name*" does not match registered: "*name*" in Link Manager DB

Lang: "*value*" does not match registered: "*value*" in Link Manager DB

Title: "*text*" does not match registered: "*LM-text*" in Link Manager DB

Solution: Run `lmupdate` and `lmresolve` on your book file.

Link Manager Olink Fatal Errors

Olink needs to have at least a *targetptr* or *targetdoc* attribute value

Cause: An Olink must have a value assigned to the *targetptr* or *targetdoc* attribute.

Solution: Either provide the *targetptr* or *targetdoc* value yourself or use Link Manager to insert the Olink.

Cannot resolve olink: *targetptr*="*value*" *targetdoc*="*value*", part number="*value*"

Cause: Link Manager cannot resolve the target of the Olink.

Solution: Run `lmresolve` to resolve the link.

Resolved content does not match the content in source: targetptr="value"
targetdoc="value" part number="value" ; Content: "text" vs Resolved Content: "resolved-text"

Cause: The stored content in the Link Manager database does not match the content in your book.

Solution: Run `lmupdate` and then run `lmresolve` on your book file.

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 this error, you can ignore it.

Multimedia Fatal Errors

No <imageobject> found inside <mediaobject>

No <imagedata> found inside <imageobject>

Cause: The MediaObject element is missing image-related elements and information.

Solution: Either insert the missing ImageObject or ImageData elements or information manually or delete the MediaObject element and insert a new one by placing your cursor in the appropriate location and selecting Insert Figure from the toolbar. Inserting a MediaObject element by using the toolbar button ensures that the element is inserted with all the required subelements.

For more information, see [“Inserting Graphics” in oXygen Author User’s Guide](#) .

Supported image types are JPEG, PNG and SVG. Found: *filename.incorrect-type-extension*.

Cause: The specified image is in an unsupported format.

Solution: Either contact a graphic artist to convert the file or recapture your image and save it in one of the supported formats listed in the message.

PTSVN Registration Fatal Errors

Partnumber: "Ennnnn" does not exist in PTSVN

Cause: The part number for the document does not exist in the PTSVN archive.

Solution: Verify that your book is registered with PTSVN by issuing the following command:

```
ptsvn ls part-number
```

If your book is not registered, contact the Doctools Support Team at `SYSTEMS_IDG_DOCTOOLS_SUPPORT_US_GRP@ORACLE.COM` to add the book to PTSVN or, if you know how to register a book in PTSVN, register the book using the `ptsvn register` command.

If your book is registered in PTSVN, contact the Doctools Support Team.

DocID: "*DocID*" does not match registered "*PTSVN-DocID*" in PTSVN

Lang: "*value*" does not match registered: "*PTSVN-value*" in PTSVN

Title: "*text*" does not match registered: "*PTSVN-text*" in PTSVN

Cause: Information in the document's BookInfo element does not match the information registered in the PTSVN archive.

Solution: Double-check the information registered in the PTSVN archive by issuing the following command:

```
ptsvn ls part-number
```

If the information is correct in PTSVN, update the information in the relevant BookInfo elements to match the PTSVN information. If you are sure that the information in your book is correct and the information in the PTSVN archive is incorrect, update the PTSVN information by issuing the following command from the book's *DocID/part-number* directory:

```
ptsvn setmetadata
```

file: *filename* doesn't exist in PTSVN archive

Cause: You have not added the specified file to the PTSVN archive even though it is referenced in the book.

Solution: Add the file to the PTSVN archive by issuing the following command from the book's *DocID/part-number* directory:

```
ptsvn addfile filename
```

Template Fatal Errors

Template `legal.xml` doesn't match the official content. Please update it.

Template `hw_fr_legal.xml` doesn't match the official content. Please update it.

Solution: Update the template information by choosing SolBook → Update Book and selecting the applicable update. You can also update the book information by issuing the following command from the book's *DocID/part-number* directory:

updatebook *bookfile*

Template preface.xml doesn't match the official content. Please update it.

Cause: The preface content does not match the new preface template, which includes a minimal set of information that is easy for writers to maintain.

Solution: Delete the current preface.xml file and insert the new preface template in the same location by choosing File → New → Framework templates → SolBook → book → preface.

Ulink Fatal Errors

External link: *url* returns: 1, Malformed Target URL

External link: *url* returns: 2, Target Timeout

External link: *url* returns: 301, Target Moved Permanently

External link: *url* returns: 302, Target Temporary Redirect

External link: *url* returns: 303, Target Temporary Redirect

External link: *url* returns: 307, Target Temporary Redirect

External link: *url* returns: 404, Target Not Found

External link: *url* returns: 408, Target Timeout

External link: *url* returns: 500, Internal Error

Cause: The value provided for the Ulink's *url* attribute is incorrect

Solution: Fix the URL value.

External link: *url* returns: *value*, General Error

Cause: The URL provided in the Ulink results in an external error.

Solution: Navigate to the URL in a browser to note the error. Replace the URL value with a valid URL.

◆◆◆ CHAPTER 4

Errors

This chapter describes errors that JDocLint reports that are not fatal but that you should fix before final check-in to the PTSVN archive to be sent to the translation center.

Note - JDocLint also reports XML errors that a simple XML validation of your document would report such as improper placement of elements, missing elements, and the like.

Copyright Errors

No more than 2 years should be listed in the Copyright.

Cause: The Year element in the Copyright element contains more than two years. The copyright year should either be the current year of publication as reflected in the year in the PubDate element or the year that the document was first published and the year that matches the year in the PubDate element. Use commas between the two years.

Solution: Remove extraneous years.

Second copyright year *nnnn* should match pubdate: *nnnn*

Copyright year in book: *nnnn* should match pubdate: *nnnn*

Cause: The year in PubDate and the latest year in the Year element within the Copyright element do not match.

Solution: Change the value in the Year element to match the year in PubDate.

RefEntryTitle Error

Text in <refentrytitle> within olink does not match the olink targetptr value *targetptr*

Cause: The RefEntryTitle text in an Olink does not match the Olink's *targetptr* attribute value.

Solution: Use Link Manager to insert the Olink with the correct values.

Table Errors

This table should not have align attribute declared.

Cause: The *align* attribute on a Table element should not have a value.

Solution: Remove the attribute value.

The number of cells per row should match the number of columns.

Cause: Entries are missing in a row of the table.

Solution: Find the row or rows with missing entries and insert the missing elements so the number of entries per row equals the number of columns in the table.

The number of rows in the table does not match the number of rows indicated in the table's *morerows* attribute.

Cause: This message usually appears as the result of spanning.

Solution: If you can restructure the table without spanning, insert more rows or adjust the *morerows* value until the number of rows in the table and the number of rows in the *morerows* attribute match.

◆ ◆ ◆ CHAPTER 5

Warnings

This chapter describes warnings that JDocLint reports. Warnings generally report problems 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.

Abstract Warnings

For information about writing abstracts, see [Guidelines for Writing Abstracts](#) on the IDGX Infobot department web site.

Abstract should contain useful text, not the default text

Solution: Make sure the text in the `abstract.xml` file contains concise text describing the document.

Abstract is empty

Solution: In the `abstract.xml` file, insert concise text describing the document.

Architecture and OS Attributes Warnings

Improper OS attribute: *value* for *element*. Should be one of the following: solaris, linux, windows, hp-ux

Improper arch attribute *value* for *element*. Should be one of the following: sparc, 86, amd64

Solution: Change the *arch* or *OS* attribute of the specified element to one of the values listed in the message.

Copyright Warnings

Earliest year should come first in copyright years

Solution: Reverse the order of the years in the Year element in the Copyright element so that the earliest year is listed first. Use commas between the two years.

Pubdate is currently set to DRAFT. Change this value to a valid year for final publication.

Solution: Change the word "DRAFT" in PubDate to the year of publication.

Empty Element Warning

Empty *element* element

Solution: Delete the empty element or insert content in the element.

ID Attribute Warnings

element requires an ID because child *element* has an ID

Cause: An element without an ID attribute value cannot contain a child element with an ID attribute.

Solution: Add a value for the ID attribute of the specified element either by providing one manually or by placing your cursor within the element tags and choosing SolBook → Generate ID.

Child *element* has an ID so parent *element* must have a Title

Cause: In order to process cross-references, most elements must have a title to reference.

Solution: If the parent or other ancestor element qualifies for a Title element, add one.

List Warnings

List items should begin with a capital letter

Solution: Capitalize the first word in list items unless the word is a computer term in monospace font.

Lists should have a minimum of two items

Solution: Either restructure the list as a paragraph or add more items to the list.

List items should end consistently

Cause: List items should either all end with periods or all have no ending punctuation.

Solution: Either add periods at the end of all list items if at least one item is a full sentence or remove all ending punctuation from all list items if no list items are full sentences.

For more information, see "[Capitalizing and Punctuating Lists](#)" in *Sun Editorial Style Guide*.

Media Object Warning

GIF and TIFF graphics will not be supported in a future release. Preferred image types are JPEG, PNG, and SVG. Found: *filename*.

Solution: To prevent issues in the future, when you have time, contact a graphic artist to convert the file or recapture your image and save it in one of the supported formats listed in the message.

Procedures and Tasks Warnings

Procedure has more than 10 steps

Cause: If a procedure is a long single series of steps, the procedure might be too complex and readers could have a difficult time following the steps in the procedure. Also, readers could perceive the total task as being too complex.

Solution: If a procedure is too long, see whether you can divide the task into two or more smaller procedures. However, do not divide a long procedure if you cannot logically divide the steps. Do not separate a single procedure into smaller, less comprehensible procedures just to meet the recommended number of steps.

Tasks should not contain tasks

Cause: A Task is nested within another Task.

Solution: Move the child Task to the same level as the parent Task.

Punctuation Warnings

Paragraph missing ending punctuation: *text*

Solution: Paragraphs should generally end with punctuation marks. Examine your text to make sure that the paragraph is not missing a necessary ending punctuation mark.

Do not use straight quotes for running text

Cause: Quotation marks in text that is copied from email or other ASCII text appear as straight quotation marks rather than curved quotation marks.

Solution: Delete the quotation marks and type them again within oXygen Author to achieve curved quotation marks.

RefEntry Warnings

Text in <refentrytitle> does not match the man page file name *filename*

Solution: Make sure the text in RefEntryTitle matches the man page file name. For example: <refentrytitle>clquorumserver</refentrytitle><manvolnum>1CL</manvolnum> matches the file name clquorumserver.1cl.

ID attribute value of <refentry> does not match the man page file name *filename*

Solution: Make sure the ID attribute value of RefEntry matches the man page file name. For example: <refentry id="scqsd-1m"> matches the file name scqsd.1m.

Spaces Warnings

A space is included between the last word of the paragraph and the ending punctuation mark: *text*

Solution: Delete the space before the punctuation mark.

Unnecessary space at end/beginning of text in *element* element: " *Text*"

Solution: Remove the space at the beginning or end of the specified element.

Note - This error is sometimes issued in error. Spaces that appear at the beginning of Paras in oXygen Author will not appear in the final output.

Unnecessary space at end of text in *element*

Cause: Spaces after the text within Command or other monospace computer output elements should be placed outside the element tags rather than within them.

Solution: Move the space to outside the element tags.

Table Warnings

Two-column tables with no column headers should usually be structured as a variable list

Cause: Two-column tables used for items and their descriptions that do not have column headers or titles should be structured as a variable list. This type of information is not tabular in nature.

Solution: If your table is presenting items and their descriptions and does not have column headers or titles, change it to a variable list.

Table has more than 20 rows

Cause: Tables that are longer than 20 rows can be difficult to follow online and difficult to process in print.

Solution: Examine the table content to see whether you can restructure your table by dividing the table into smaller tables, removing extraneous rows, or combining similar rows.

Title Warning

Title should be longer than one word

Cause: Titles should be descriptive to help readers who are searching for relevant content and to clarify the outline of your content.

Solution: Reword the title.

Trademark Entity Warning

The trademark element should be used, not the trademark entity

Cause: Trademarks should be indicated by surrounding the trademarked term with the Trademark element, not by inserting the trademark character entity (symbol).

Solution: Remove the trademark entity and surround the trademarked term with the Trademark element.