

Template for comments and secretariat observations

Date:2026-03-17

Document:

Project:

MB/ NC ¹	Line number	Clause/ Subclause	Paragraph/ Figure/Table	Type of comment ²	Comments	Proposed change	Observations of the secretariat
** -001				Ge	The document has been reviewed by an ISO editor.	Please use the file named "Word with trackchanges", from ISO CS available on ISO Projects as a basis for any further drafting. In case of any questions, contact Lucy at kirk@iso.org .	Acknowledged
** -092		Foreword		Ed	Foreword	The Foreword has been updated.	Acknowledged
JP- 093		Foreword	Para 6	ed	typo	Change "ISO/JTC 1" to "ISO/IEC JTC 1".	Accept.
JP- 094		Index	EWf	ed	typo	Change "behaviourr" to "behaviour".	Implemented
JP- 095		Index	FAB	ed	typo	Change "behaviourr" to "behaviour".	Implemented
** -096		Introduction		Ed	ISO/IEC 24772-1:2024	References are only dated when a specific element of that document is mentioned, e.g. a clause, figure or table. Date removed because the citation does not refer to a specific element of the document. Please review all dated references in this text and remove the year of publication when a specific element is not mentioned.	Implemented
** -097		Introduction		Ed	ISO/IEC 24772-1	There is no need to include the heading in the text; the standard identifier (ISO/IEC 24772-1) is enough. Full headings are given in Clause 2/the Bibliography.	Implemented
** -098		Introduction		Ed	will beare better able to avoid	See ISO House Style : Use the present tense by default. Only use past or future tenses when	Not found. Removed "will" and "would" from document and reworded.

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						specifying something that happened in the past or will happen in the future. Keep in mind a lot of users will not have English as a first language. Ctrl+F "will" and "would" to find all instances.	
** -099		Introduction		Ed	This Standard document	See ISO/IEC Directives, Part 2, 2021, 10.6 : "This document" is used as a generic term to refer to "this International Standard", "this Technical Report", etc. Please refer to this document as "this document" throughout.	Accepted
JP- 100		Introduction	Para 1	ed	The title of ISO/IEC 24772-1 is misspelt.	Change "language – Part" to "languages – Part".	Title removed there as complete title to be in clause 2 only.
JP- 101		Introduction	Para 1	ed	The document itself should be referenced as "this document". Note that the word "guidance" is no longer used in the title.	Change "This Standard documents" to "This document describes", and "This guidance" to "This document",	Accepted.
** -002		1		Ed	ISO/IEC 24772-1:2024	As a reminder, see comment in Introduction about dated references. The year of publication can be removed here.	Done.
** -003		1		Ed	This document itemizes specifies programming language vulnerabilities	See ISO/IEC Directives, Part 2, 2021, 14.5 : The Scope includes an opening sentence that explains the document's purpose, e.g. "This document specifies/establishes/gives guidelines for/defines terms...", followed by the statement of applicability.	Rewritten
JP- 004		1	Para 1	ed	The document itself should be referenced as "this document". Note that the word "guidance" is no longer used in the title.	Change "this guidance is applicable" to "this document is applicable as guidance".	Rewritten
JP- 005		1	Para 2	ed	The title of ISO/IEC 24772-1 is not necessary, as it is shown in the next clause. The Directives Part 2, 10.5, states that the titles are usually only written out in full in the Normative references clause (and in the Bibliography).	Delete the title, or, at least, the unmatched double quote after "Part 1:".	Following ISO recommendations, only document number used.
** -006		2		Ed	ISO/IEC/IEEE 60559:2020	See ISO/IEC Directives, Part 2, 2021, 15.5.3 : Only references cited in the text in such a way that some or all of their content constitutes requirements of	Reject. Document is necessary for Fortran mathematics and for this

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						the document shall be listed in the Normative references clause. Not cited normatively in the text. See comment 6.4.2.	documents evaluation of Fortran Mathematics.
** -007		2		Ed	ISO/IEC 1539-1:2023	See comment about undated references in the Introduction. An entry in Clause 2 is only dated when the normative reference(s) to that document is/are dated. The only normative reference to ISO/IEC 1539-1 is in the opening sentence of Clause 3, where it does not need to be dated. That means the entry can be left undated.	Done
JP- 008		2	Para 4	ed	The latest standard identifier is “ISO/IEC 60559”, not “ISO/IEC/IEEE 60559”.	Change “ISO/IEC/IEEE” to “ISO/IEC”. Apply the same edit to all occurrences of it throughout the document.	Done
** -009		3		Ed	ISO/IEC 24772-1:2024, ISO/IEC 1539-1:2023	See comment in Introduction: Please remove the years of publication from these references. Please review all dated references in the text.	Year of publication removed.
** -010		3.3		Ed	assumed-size array:	Assumed the colon : was a typo. The term is not written like this in the text.	Changed
** -011		3.6		Ed	Image	See ISO/IEC Directives, Part 2, 2021, 16.5.5 : Terms shall be written in lower case characters. Is it necessary to capitalize this term? Please review.	replaced
JP- 012		3.6	Term	ed	The term should not be capitalized.	Change “Image” to “image”.	changed
** -013		3.9		Ed	Module	See ISO/IEC Directives, Part 2, 2021, 16.5.5 : Terms shall be written in lower case characters.	changed

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						Is it necessary to capitalize this term? Please review.	
JP- 014		3.9	Term	ed	The term should not be capitalized.	Change "Module" to "module".	changed
**015		3.10		Ed	in the current standard	See comment in Introduction: Do you mean "in this document"?	Changed to "in the current Fortran standard".
**016		4.1		Ed	there might be reluctance to change existing software	See ISO House Style: Avoid using verbal forms that are not defined in the ISO/IEC Directives, Part 2, 2021, Clause 7. In the English language, the words "may", "can", "might" and "could" are often used interchangeably. The subtle differences in meaning are not easily translated into other languages when ISO documents are used around the world. To ensure that a document is understood and applied correctly, use "may" to express a permission and "can" to express a possibility or capability. Avoid substituting either of these terms with "might" or "could", even if this seems logical in English. Revise a sentence that uses "might" or "could" to avoid confusion and misapplication of the text.	Changed to "some projects are reluctant to change existing software"

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						Please review all instances of "might" in the text. Ctrl+F "might" to find all instances. As a solution, the word can often be replaced by "can".	
** -017		4.1		Ed	previous versions of the standard	We use "edition" instead of "version" when talking about ISO standards. ...previous editions of ISO/IEC XXXX.	Changed
** -018		4.1		Ed	the standard	Do you mean a specific document here? Use the standard identifier where possible to make the reference abundantly clear for the user. See all similar instances throughout the text.	Changed to ISO IEC 1539-1 Programming language Fortran
** -019		4.1		Ed	over fifty 50 years ago	See ISO House Style : In general, write numbers as words up to nine and use digits after that.	Updated
** -020		4.1		Ed	General	The content of this subclause appears to be background information to this document. This would be more appropriate in the Introduction. Please move to Introduction.	Reject. The paragraph is about the Fortran programming language while the Introduction is about 24772-8.
** -021		4.2		Ed	processor	See ISO House Style : Avoid using italics, bold and underline to give emphasis to words or paragraphs in the text. Overuse of formatting styles like these make text more difficult to read and the document becomes inaccessible to the user. Instead, use the Plain English tips to make the document clear and easy to use. Italics removed. Please only use italics for the purposes outlined in the ISO/IEC Directives Part 2, e.g. for symbols that represent variables.	Accept

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** -022		4.2		Ed	The Fortran standard, ISO/IEC 1539-1	See comment in 4.1: the standard identifier (i.e. "ISO/IEC 1539-1") is sufficient on its own. ISO/IEC 1539-1 is written in terms of...	Accept
JP- 023		4.3	Para 1	ed	typo	Change the first occurrence of "lists" to "list".	Accept
** -024		4.4		Ed	The programmer should not rely for program correctness on a particular alternative being chosen by a processor	This sentence could be clearer. Suggest moving " for program correctness" to the beginning of the sentence: <u>For program correctness</u> , the programmer should not rely on a particular alternative being chosen by a processor	Accept
** -025		4.4		Ed	Annex A.2 of the standard	As a reminder, please use the standard identifier wherever possible when referring to an International Standard. This makes it easy for the user to find the reference. It is best to be precise as possible with referencing, even if it feels repetitive. Here, do you mean ISO/IEC 1539-1:2023, Clause A.2 ?	Accept
** -026		4.6		Ed	"sticky' sticky"	See ISO House Style : ISO uses double quotation marks. For quotes inside quotes, use single quotation marks.	Fixed
** -027		4.6		Ed	0.0/0.0	See ISO/IEC Directives, Part 2, 2021, 9.1 : The decimal sign shall be a comma on the line in all language versions. Please change all decimal points to decimal comma throughout the text.	Reject. All programming languages and ISO/IEC 24772-1 use "." As the decimal point. Changed to "editions of ISO IEC 1539-1"

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** -028		4.6		Ed	execution continues with the corresponding flag signalling, and the flag remains signaling until explicitly set quiet by the program	Should these terms be put in quotation marks, to clearly distinguish them as flags/values etc? ...execution continues with the corresponding flag "signalling" and the flag remains "signalling" until explicitly set "quiet" by the program. See all similar instances.	Corrected. For words such as "signaling", the UK spelling is not present in programming languages.
** -029		4.6		Ed	signalling	See ISO House Style section on spelling . See all instances.	These are Fortran technical terms and English vs US spelling is irrelevant.
** -030		4.6		Ed	any other value is a <i>NaN</i> (Not a Number).	Give the term in full first then put the abbreviated term in brackets after. Also, no need for italics here. ... any other value is Not a Number (NaN).	Reject. NaN is in italics because it is an official state determined by ISO/IEC 60559
** -031		4.7		Ed	and might can have other companion processors as well	As a reminder, review all instances of "might" in the text.	Corrected
** -032		4.9		Ed	the corresponding actual argument must be omitted	See ISO/IEC Directives Part 2, 2021, 7.6 : External constraints are not requirements of the document. They are given for the information of the user. "Must" is the verbal form used to express external constraints, i.e. things that are not governed by the provisions of this document. Here's an example of "must" used correctly: "Code 133 shall be sent to give warning of a priority road at a T-shaped intersection where traffic joining from the left must give way." Please do not use "must" for anything other than an external constraint. Please reword to a statement of fact (e.g. "is expected to...") or, if this is a requirement of the document, "shall".	Must be -> is This document does not specify Fortran requirements. It only documents them and exposes vulnerabilities.

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						Please review all instances of “must” in the text and ensure it is used correctly. Ctrl+F “must” to find all instances.	
** -033		4.10.1		Ed	The standard	This document?	Changed to ISO IEC 1539-1
JP- 034		4.10.1	Para 1	ed	typo	Change “eventwait” to “event wait”.	Changed
JP- 035		4.10.4	Para 1	ed	typo	Change “sync_all and sync_images” to “sync all and sync images”.	Changed
JP- 036		4.10.4	Para 7	ed	typo	Change “syncmemory” to “sync memory”.	Not found
** -037		4.10.6		Ed	MPI	Please define abbreviated terms on first use.	Put in code font to be clear that this is a language term
** -038		4.10.6		Ed	I/O	Please define abbreviated terms on first use.	reworded
JP- 039		4.10.6	Para 5	ed	typo	In the program, change “. . . [newline]code that” to “. . . code that”, three times.	Reject. The [newline] shows that the omitted code follows. It is not a comment on the line above.
** -040		4.10.7		Ed	The feature needs to be used with care	See ISO House Style : Avoid using verbal forms that are not defined in ISO/IEC Directives, Part 2, 2021, Clause 7 . To ensure that a document is understood and applied correctly, use “shall” to express requirements of the	Removed.

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						document and “must” to express constraints or obligations defined outside the document, and which are given for the information of the user. Avoid substituting either of these terms with “need(s) to”, even if this seems logical in English. Ctrl+F "need" to find all instances.	
** -041		4.10.7		Ed	and/or	See ISO House Style : A forward slash is often used in English to express “either or both” of two options. The meaning can be ambiguous, especially in translation to other languages where the “/” is not a recognized punctuation mark. Avoid using a forward slash or the wording “and/or” in a document to avoid confusion and misapplication. Use the construction “either x or y, or both” instead. Ctrl+F “/” (in particular “and/or”) to find all instances.	Changed
JP- 042		4.10.9	Para 1	ed	Use the defined term.	Change “system” to “processor”, twice.	Reject. Processor refers to a single executing image. Changed to “Fortran program” in the first caase and “executing program” in the second. Fixed
** -043		5		Ed	Number	Is it necessary to have an empty cell below this cell? Suggest merging the cells. See also cell under "References" on this row.	Moved text into heading cell.
JP- 044		5	Table 1	ed	typo	In “Number 4” row, “References” column: add “6.18 [WXQ] 6.19 [YZS]” after “6.17 [NAI]”, and change “7.1” to “7.2”.	Changed
JP- 045		6.*.2 7.03.2	List items	ed	In a list of avoidance mechanisms, all but the last items are delimited by a semicolon, and the last	Correct the delimiters of the following list items: #2-5&7 of 6.2.2, #1-5 of 6.3.2, #2&4 of 6.4.2, #1&3 of 6.8.2, #1-2 of 6.15.2, #3 of 6.17.2, #1-2 of 6.18.2,	Changed

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					one by a period. There are some exceptions to this practice. In particular, there is a “.” in 6.8.2.	#1-2 of 6.19.2, #1-6 of 6.32.2, #3 of 6.43.2, #4 of 6.45.2, #2&4 of 6.49.2, #1-2 of 6.50.2, #5 of 6.53.2, #4-5 of 6.57.2, #1 of 6.64.2, #1 of 7.3.2.	
** -046		6.2.1		Ed	and	Should this be in normal body text format (i.e. instead of code format)?	No. Put blank line above and below for clarity.
** -047		6.2.1		Ed	as described below.	See ISO/IEC Directives, Part 2, 2021, 10.1 : Imprecise references such as “the following clause” or “the figure above” shall not be used. Please replace imprecise references with precise element numbers so the user knows what is meant here. ...as described in this subclause.	Reject in this case.
JP- 048		6.2.1	8 lines from the end	ed	typo	Change “fahrenheit” to “type fahrenheit”.	fixed
** -049		6.3.1		Ed	described in 16.3 of the standard	of this document? Or of ISO/IEC 1539-1:2023?	Changed to ISO/IEC 1539-1.
GB- 050	2-3	6.3.1	Para 3	te	There is a statement here that was true for Fortran 2018 but is not true for Fortran 2023.	Delete the sentence "BOZ constants can only be used to initialize variables and as arguments to intrinsic functions that perform bit operations or convert to the numeric types."	Removed.
JP- 051		6.3.2	Para 2	ed	“Language-provided” is not a defined term, and could therefore be read as “processor-provided”.	Change “language-provided intrinsics” to “standard intrinsic procedures”.	Changed to ISO/IEC 1539-1 intrinsics
** -052		6.4.2		Ed	apply the intrinsic module procedures to determine the limits of the processor’s conformance to ISO/IEC/IEEE 60559	This is not a normative reference to ISO/IEC/IEEE 60559. The verbal form in the introductory sentence to this list is "can", which is a possibility (i.e. the sentence	Fixed. Reject moving reference to 60559 to the bibliography.

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						reads "Fortran software developers can... apply the intrinsic module procedures"). References are normative when made in the context of a requirement (verbal form "shall"). Please move the entry from Clause 2 to the Bibliography.	
** -053		6.6.1		Ed	IO input-output (IO) statements	Full term provided, please review.	Accept
** -054		6.6.1		Ed	ISO/IEC 10646	Add to Bibliography.	Accept
** -055		6.6.2		Ed	Use use the kind selection intrinsic procedures to select sizes of variables supporting the required operations and values;	This list item and all subsequent items in this list are indented, which implies that they are sublist items of item 1. Are they supposed to be sublist items of "apply the avoidance mechanisms of ISO/IEC 24772-1:2024, 6.6.5"? Please review.	Extra indentation removed.
JP- 056		6.7	Para 1	ed	typo	Change "24772-1:2024:2019" to "24772-1:2024".	Accept.
JP- 057		6.8.1	Para 1	ed	typo	Change "24772-1:2024:2019" to "24772-1:2024".	Accept
JP- 058		6.10.2	Para 1	ed	typo	Change "6.8.2" to "6.8.5".	Correct reference was 24772-1 6.10.5
** -059		6.11.1		Ed	The vulnerability specified in ISO/IEC 24772-1:2024, 6.11 is applicable to Fortran in the following cases: in the context of polymorphic pointers; the C-style pointer conversion intrinsics; and in the use of implicit interfaces for procedure	Suggest using a list format for clarity: The vulnerability specified in ISO/IEC 24772-1:2024, 6.11 is applicable to Fortran in the following cases:	Changed "is applicable" to "applies" and put in list format.

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					pointers and dummy procedure arguments. All other pointer conversions are forbidden.	- in the context of polymorphic pointers; - the C-style pointer conversion intrinsics; - in the use of implicit interfaces for procedure pointers and dummy procedure arguments. All other pointer conversions are forbidden.	
JP-060		6.13.2	Para 2	ed	typo	Change “mechanisms s” to “mechanisms”.	Accept
JP-061		6.18.2	Para 3	ed	typo	Change “implicitnone” to “implicit none”.	Accept
JP-062		6.19.2	Para 3	ed	typo	Change “implicitnone” to “implicit none”.	Accept
JP-063		6.23.1	Para 2	ed	Use the defined terms.	Change “monadic” to “unary”, and “dyadic” to “binary”.	Accept
JP-064		6.31.1	Para 4	ed	Avoid use of inversion.	Change “should refactoring be” to “refactoring should be”.	Rewrote. The last part (manual refactoring) is avoidance mechanisms , hence placed in 6.31.2 and removed from 6.31.1
** -065		6.37.1		Ed	common, equivalence, or entry	Assumed this comma , was incorrectly styled as code; removed. See other instances, e.g. elsewhere in this paragraph.	Accepted
** -066		6.37.1		Ed	In particular, standard Fortran does not provide other means to convert between unrelated types.	Do you mean "the Fortran standard" here? As a reminder, if you are referring to an ISO standard, please use the standard identifier as this is the most precise way to reference an International Standard.	Rewrote for clarity.

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						In particular, ISO/IEC 1539-1 does not provide...	
** -067		6.37.1		Ed	common, equivalence, and entry	Assumed this comma , was incorrectly styled as code; removed.	Accept
** -068		6.38.1		Ed	then the target will be deallocated, reallocated to the shape and dynamic type the source	Is something missing at the end of this? ...and dynamic type <u>of</u> the source	Changed to “then the target is deallocated, and then reallocated to match the shape and dynamic type of the source”
** -069		6.38.1		Ed	ISO/IEC 24772-1:2024 6.2024, 6.38. applies to Fortran	Is something missing in the cross reference to 6.38? Please review.	Accept editorial change.
JP- 070		6.38.1	Para 2	ed	typo	Change “type the source” to “type of the source”.	See comment 068
** -071		6.39.1		Ed	as described below.	As a reminder, please do not use imprecise references e.g. "below". Use specific element numbers where possible or specify to ensure the meaning is abundantly clear. ...as described in this subclause. ...as described in 6.39.2.	Removed.
JP- 072		6.44.1	Para 2	ed	typo	Change “TR 24772-1:2024:2019” to “24772-1:2024”.	Accept
GB- 073	1	6.44.1	Para 2	ed	Typo	Change "ISO/IEC TR 24772-1:2024:2019" to "ISO/IEC TR 24772-1:2024"	Accept.

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GB- 074	2	6.44.1	Para 3	ed	Typo	Change "block.-Among" to "block. Among"	Accept
JP- 075		6.44.1	Para 4	ed	typo	Change "select type statement" to "select type construct".	Accept
** -076		6.47.1		Ed	When exchanging character strings with C, it is crucial to handle the fact that C terminates all strings with NUL and that Fortran uses a different mechanism to specify string length.	This wording is ambiguous: "it is crucial" implies that this is a requirement, but this is not one of the verbal forms for requirements (e.g. "shall"). If this is a requirement, please reword using the correct verbal form, e.g. When exchanging character strings with C, C shall terminate all strings with NUL and Fortran shall use a different mechanism to specify string length. If this is not a requirement, please reword to a statement of fact to avoid ambiguity. When... C terminates all strings with NUL and Fortran uses a different mechanism to specify string length. Alternatively, When... C is expected to terminate all other strings with NUL and Fortran is expected to use a different mechanism to specify string length.	Removed paragraph which was effectively restated in the following paragraph.
** -077		6.53.1		Ed	as described below.	See comment 6.39.1 about imprecise references.	Removed.

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** -078		6.54.1		Ed	plus items described below.	Imprecise reference.	Removed phrase.
JP- 079		6.56.2	Para 1	ed	typo	Change “6.56.5;” to “6.56.5.”.	Accepted
** -080		6.58.1		Ed	of the Fortran standard	As a reminder, please use the standard identifier as this is the most precise way of referring to International Standards.	Accepted. Replaced with ISO IEC 1539-1. Rewrote the paragraph to explicitly reference the Fortran document.
JP- 081		6.62.2	Para 4	ed	typo	Change “from time-to-time” to “from time to time”.	Changed to “at appropriate points in the execution”
** -082		6.61.2		Ed	6.61.2, bullet 3	The list in 6.61.2 is unnumbered. Suggest making this list numbered to make this cross reference more precise. As a reminder, see ISO House Style: The default order for a numbered list is a), b), c) for the first level; 1), 2), 3) for the second level; i), ii), iii) for the third level; and a), b), c) for the fourth level.	Accepted
** -083		6.65.1		Ed	The vulnerability as described in ISO/IEC 24772-1:2024 6.2024, 6.65 is applicable to Fortran. The vulnerability is mitigated by the following language properties. Fortran does not allow a constant to be the target of a pointer and does not allow a type to have a constant as a component. Fortran also prevents all attempts to write directly to a variable declared constant and prevents passing a constant to an out or inout dummy argument in a subprogram. However, Fortran permits a pointer to an in	Would a list format work here? The vulnerability as described in ISO/IEC 24772-1:2024, 6.65 is applicable to Fortran. The vulnerability is mitigated by the following language properties: - Fortran does not allow a constant to be the target of a pointer and does not allow a type to have a constant as a component. - Fortran prevents all attempts to write directly to a variable declared constant and prevents passing a	Implement list for items consistent with each other.

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					subprogram dummy argument, and a subsequent write via the pointer.	constant to an out or inout dummy argument in a subprogram. - Fortran permits a pointer to an in subprogram dummy argument, and a subsequent write via the pointer.	
** -084		6.65.2		Ed	the Standard	?	Replaced with ISO/IEC 60559.
CN- 085		6.66		te	The vulnerability as described in ISO/IEC 24772-1:2024 Amd 1 6.66 should be added to this file		Not possible until ISO/IEC 24772-1 Amd 1 is published. 6.66 will be processed as an amendment to this document.
JP- 086		7.3.1	Para 1	ed	typo	Change "allocable" to "allocatable".	Accepted.
JP- 087		Bibliography		ed	The bibliography needs to be refined. Normative references should be excluded. Numbers are not sequential. Item [23] is obviously incomplete.	Improve the bibliography sufficiently.	Accepted. All items except ISO/IEC 10646 removed and standards placed in normative reference.
** -088		Bibliography		Ed	Index	See ISO House Style : It is not necessary to include an index to present an alphabetical list of terms because terms can be searched for on the Online Browsing Platform and in the PDF file. Also, am assuming the numbers at the end of each line represent page numbers. The pagination in the Word file often does not match the pagination in the PDF, which is the version of the document that will be circulated and ultimately sold to the user. Please remove this index.	Noted.

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** -089		Bibliography		Ed	[1] ISO/IEC Directives, Part 2, <i>Rules for the structure and drafting of International Standards</i> , 2004	Delete this entry - it is not necessary to refer to DP2 in ISO standards.	Removed
** -090		Bibliography		Ed	Bibliography	Best practice is to only list in the Bibliography documents that are cited in the text. Most of the entries listed here were not cited in the text. Please either remove the entries from the Bibliography or add informative references to these documents to the text.	Accepted
JP- 091		Bibliography	[11]	ed	typo	Change "Westley" to "Wesley".	Removed from bibliography.

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