

ISO/IEC JTC 1/SC 32 N 1804

Date: 2008-10-10

REPLACES: —

ISO/IEC JTC 1/SC 32

Data Management and Interchange

Secretariat: United States of America (ANSI)
Administered by Farance Inc. on behalf of ANSI

DOCUMENT TYPE	Summary of Voting/Table of Replies
TITLE	Summary of Voting on 32N1757 ISO/IEC FCD 20944-4 - Information technology - Metadata Registry Interoperability and Bindings (MDR-IB) Part 4: Protocol bindings
SOURCE	SC32 Secretariat
PROJECT NUMBER	1.32.17.01.04.00
STATUS	Summary of Voting. WG2 is requested to resolve the comments. The document obtained substantial support.
REFERENCES	
ACTION ID.	ACT
REQUESTED ACTION	
DUE DATE	
Number of Pages	13
LANGUAGE USED	English
DISTRIBUTION	P & L Members SC Chair WG Conveners and Secretaries

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ISO/IEC JTC 1/SC 32 N1804

Summary of Voting on Document SC 32 N 1757

Title: ISO/IEC FCD 20944-4 - Metadata Registry Interoperability and Bindings (MDR-IB) Part 4: Protocol bindings

Project: 1.32.17.01.04.00

“P” Member	Approval	Approval with Comments	Disapproval with Comments	Abstention with Comments
Australia	1			
Belgium				
Brazil				
Canada			1	
China	1			
Czech Republic	1			
Egypt				
Finland				
Germany				
Japan				1
Kazakhstan				
Korea, Republic of	1			
Portugal				
Sweden				
United Kingdom			1	
United States				
Total “P”	4	0	2	1
“O” Member				
Austria				
Denmark				
France				
Italy				
Netherlands, The				
Norway				
Russian Federation				
Switzerland				
Total “O”				

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COMMENTS:

Canada

No. See attached comments.

Japan

Abstain. Lack of expertise.

United Kingdom

No. See attached comments.

ISO Central Secretariat

See attached comments.

1	2	(3)	4	5	(6)	(7)
MB ¹	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of comment ²	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
CA 01	All	All	Ge	Any open issues on the WG2 Issues site (Bugzilla) pertaining to this document should be resolved.	None provided with comment.	
CA 16	5.2	Open event	Te	The description of the open event is too vague: "Adding more parameters to create a new handle". [This is Issue 298 in Bugzilla.]	Expand on the description, such as: Examples: specifying a new node; specifying required access levels.	
CA 17	5.4	Hierarchical navigation paths	Te	This sub-clause specifies the use of URIs, but if you have an item with a specific identifier which is repeated, how do you access it? For example, in dublincore metadata, the metadata, there can be several elements for dc:contributors... How to access it via URI? Example: <dc:contributor role="producer">Ray</dc:contributor> <dc:contributor role="actor">Carl</dc:contributor> Now how to access this in the registry? /dc:contributor/0 -> Points to Ray? /dc:contributor/1 -> Points to Carl? Or /dc:contributor[0] -> Points to Ray? /dc:contributor[1] -> Points to Carl? or some other syntax? 20944-2 clause 5.4.2.2 uses the notation '/n' in hierarchical identifiers. Should we specify something similar here?	None provided with comment.	
CA 18	5.4	Para 2	te	The paragraph states the the API environment can make requests to the API Application (e.g: The program using the API). In typical APIs, it is usually not possible, or very rare that the API makes requests to the API application.	Please explain the rationale for the above statement (is it because of callbacks?).	

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2 Type of comment: ge = general te = technical ed = editorial

NOTE Columns 1, 2, 4, 5 are compulsory.

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				[This is Issue 302 in Bugzilla.]		
CA 19	6.2.1	Description	Te	<p>..."implementation-defined newline terminated, name-value"... does not clearly state what is a newline. Is it a newline character?</p> <p>That part of the sentence should be replaced by something indicating specifically that this is the newline character, such as this sentence:</p> <p>..."implementation-defined newline character terminated, name-value"...</p> <p>[This is Issue 304 in Bugzilla.]</p>	Please make sure that newline is defined to what it should be. if \n is used it should be written, but in that case, it will not be compatible with the definition given in 20944-2 11.1.1. Just make sure that the character(s) to use for a newline are standard for mdrib_system_info, so that interpretation of the returned values are simple, and do not require analysis depending on the platform.	
CA 20	6.2.1	Example	Te	<p>The specification states that mdrib_system_info requires a session handle as a parameter, that can be set to NULL. But the example shows a call to mdrib_system_info without any parameters.</p> <p>[This is Issue 305 in Bugzilla.]</p>	<p>If it is intended, that the literal 'NULL' be passed, then in the example, mdrib_system_info() should be replaced by mdrib_system_info(NULL).</p> <p>If it is intended that no parameter be passed, as shown, change 'NULL' to 'null' in the description. Using upper case confuses rather than clarifies the issue.</p>	
CA 21	6.2.1	Example	Ed	In the example, configuration is misspelled.	Correct the spelling.	
CA 22	6.2.2	Example	Ed	<p>The mdrib_configure procedure requires a session handle as a parameter, but the example in that section does not contain any such parameter.</p> <p>[This is Issue 306 in Bugzilla.]</p>	<p>Insert a leading comma to indicate the missing parameter: mdrib_configure(,"maximum_input_string", "2047") or explicitly specify the null value as in: mdrib_configure(NULL, "maximum_input_string", "2047").</p>	
CA 02	6.2.5 Open	General	Te	<p>The options parameter specifies access rights being requested. This will affect subsequent operations. If a subsequent operation is attempted which requires greater access rights than were requested, what exceptions will be thrown.</p> <p>[This comment is related to Bugzilla issue 258.]</p>	Each service should specify the access rights that it needs, and as many exceptions as possible should be listed and standardized.	

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				This comment was made on the previous ballot but was not adequately addressed.		
CA 15	6.2.5 Open	Options parameter	Ed	The comment alongside the 'options' parameter is 'connect options', but this is the Open service.	Change the comment to 'open options'	
CA 03	6.3.1 <i>Get path</i>	Description	te	The terms 'node path' and 'default node path' are not defined. 'node' is defined in CD3-20944-1 This comment was made on the previous ballot, but was not adequately addressed. Why does the text refer to 'current <u>default</u> node path'? Why not just 'current node path'? [This comment is related to Bugzilla issue 259 .]	(1) Define the term 'node path'. E.g. access path to a specific node. Note: The associated value is implementation-defined. (2) Define the term 'default node path' if it is to be used. E.g. node path that will be used for access when no path is explicitly specified. Explain how the 'default node path' differs from the 'current node path' (if it does).	
CA 23	6.5.1	Example	Te	The parameters passed to the mdrib_get_value example are not consistent with the definition of that service. [This is Issue 308 in Bugzilla.]	Replace: <code>city_name = mdrib_get_value(ch,"city",-1,-1,NULL,"city_name",string,city_name)</code> By: <code>success = mdrib_get_value(ch,-1,-1,octet_transferred,"city", value_type,city_name).</code> Also the octet_transferred variable should be added at the start of the example, assuming that octet_transferred parameter must be non-NULL (This is not specified in the definition of this service).	
CA 24	6.5.2	Description	Ed	The str8, str16 and str32 definitions have asterix and quotes in their definitions. [This is Issue 309 in Bugzilla.]	Replace "8-bit*" by 8-bit, "16-bit*" by 16-bit and "32-bit*" by 32-bit.	
CA	6.5.2	Description	Te	str16 and str32 could be more clearly defined by	WG2 should determine which of UTF16 / UTF32	

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25				<p>indicating their encoding types at the end of the sentences.</p> <p>Even though UTF-32 and UTF-16 are now the standard, usage of UCS encoding is still easier to use in programming environments and requires less work for parsing (fixed size codes).</p> <p>[This is Issue 310 in Bugzilla.]</p>	<p>or UCS 2 / UCS 4 should be used, and specify accordingly.</p>	
CA 28	6.5.3	Synopsis	Te	<p>The description clearly states that this puts a value in an object named <code>src_identifier</code>. But there is no such parameter in the definition of the routine.</p> <p>[This is Issue 313 in Bugzilla.]</p>	<p>Add the <code>src_identifier</code> parameter in the synopsis of the routine.</p>	
CA 26	6.5.3	Example	Te	<p>The example given for <code>mdrib_put_value</code> is wrong, as it calls <code>mdrib_get_value</code> and the parameters passed to the routine are wrong.</p> <p>[This is Issue 311 in Bugzilla.]</p>	<p>Replace by a valid example of <code>mdrib_put_value</code>.</p>	
CA 27	6.6.1	All	Te	<p>The <code>make_object</code> service is insufficiently specified. The synopsis seems to be for creation of objects, but the syntax of the routine seems to be for <code>mdrib_put_value</code>. The description refers to <code>mdrib_put_object</code> which does not exist. Presumably, <code>mdrib_put_value</code> is intended. Furthermore the example is inconsistent.</p> <p>Also there should be a way to create non-atomic data objects (such as a node). This is not specified anywhere.</p> <p>[This is Issue 312 in Bugzilla.]</p>	<p>The routine should be completely redefined and its example redone. An example for creating an object could be as follows:</p> <p><code>mdrib_make_object:</code></p> <p>procedure</p> <p>(</p> <p>in session: <code>mdrib_handle</code>, // session handle</p> <p>in <code>octet_length</code>: integer, // size of the data to transfer (size of the object to create)</p> <p>in <code>src_identifier</code>: characterstring; // name of new object</p> <p>in <code>src_object_type</code>: characterstring, // source</p>	

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					<p>value: typeof in src_object_ptr : pointer; // source value: ptr to) returns (state(success,failure)),</p> <p>Creates a new object with an identifier of src_identifier with a type src_object_type. and then updates the value in the registry with the value stored in src_object_ptr. The octet_length parameter indicates the size to reserve in the registry for this object. It is implementation specific if the size of a data object can be changed dynamically or not. .. Add example ...</p>	
CA 29	6.6.4	Description	Te	<p>The possible syntax of the mdrib_list_object src_identifier parameter is not defined. Wildcard characters, as given by the example are not defined at all. It should be explained. [This is Issue 314 in Bugzilla.]</p>	<p>Explain what is the possible syntax of src_identifier. It is assumed that it will be with the standard wildcard characters ? and *.</p>	
CA 30	6.6.4	Synopsis & Example	Te	<p>The routine mdrib_list_object returns a list of identifiers that match wildcard specification input in src_identifier. Therefore, the return value should be an array of characterstring or other such structure.</p>	<p>Replace the return value of mdrib_list_object with something more consistent, such as returns (array(integer) of (characterstring));</p>	
CA 04	6 Services & 8 9 Conformance	Various	Te	<p>Bugzilla Issue 273 – Clarification of Limits. Even though the limits can now be retrieved with new API's, there is currently no minimal implementation</p>	<p>Specify appropriate limits.</p>	

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				<p>requirement, which will probably lead to non-interoperable implementations.</p> <p>Some properties, that could have minimum/maximum requirements:</p> <ul style="list-style-type: none"> - Minimum supported data object identifier length - Minimum Required supported ISO/IEC 11404 datatypes - Allowed data object identifier characters - Minimum/Maximum hierarchical navigation identifier length - Maximum/Minimum data objects per-non terminal node - Maximum/Minimum number of simultaneous opened sessions - Maximum/Minimum octets of data for a data object. <p>Examples of minimum properties for a conformant implementation:</p> <ul style="list-style-type: none"> - Minimum data object identifier length : 14 characters (taken from POSIX-1996) - Minimum data object identifier characters: portable filename character set (POSIX-1996) for example. - Minimum hierarchical navigation identifier length: 63 characters (JOLIET Specifications) 		
CA 05	11.6	Items 3 and 6	Te	MDRIB_ERR_ILLHANDLE duplicates MDRIB_ERR_BADH	Remove MDRIB_ERR_ILLHANDLE.	
CA 06	11.6	Item 10	Te	The explanation of MDRIB_ERR_NOTOBJ uses the term 'data element', which is inappropriate.	Change 'a data element' to 'a valid object'.	
CA 07	11.6	New item	Te	We need to add at least one more error code for any fatal error accessing the registry. [This comment is related to Bugzilla issue 280 .]	Suggested value is MDRIB_ERR_PERM: Unable to access registry.	

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CA 08	12	All	Te	Java bindings do not conform to Java coding style. [This comment is related to Bugzilla issue 281 .]	An example rewritten in the Java style, has been posted to the Bugzilla issue.	
CA 09	12.6	Items 3 and 6	Te	MDRIB_ERR_ILLHANDLE duplicates MDRIB_ERR_BADH	Remove MDRIB_ERR_ILLHANDLE.	
CA 10	12.6	Item 10	Te	The explanation of MDRIB_ERR_NOTOBJ uses the term 'data element', which is inappropriate.	Change 'a data element' to 'a valid object'.	
CA 11	12.6	New item	Te	We need to add at least one more error code for any fatal error accessing the registry. [This comment is related to Bugzilla issue 280 .]	Suggested value is MDRIB_ERR_PERM:	
CA 12	13.6	Items 3 and 6	Te	MDRIB_ERR_ILLHANDLE duplicates MDRIB_ERR_BADH	Remove MDRIB_ERR_ILLHANDLE.	
CA 13	13.6	Item 10	Te	The explanation of MDRIB_ERR_NOTOBJ uses the term 'data element', which is inappropriate.	Change 'a data element' to 'a valid object'.	
CA 14	13.6	New item	Te	We need to add at least one more error code for any fatal error accessing the registry. [This comment is related to Bugzilla issue 280 .]	Suggested value is MDRIB_ERR_PERM:	
				**** MORE TO COME ****		

END

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Template for comments and secretariat observations

Date: 10 September 2008

Document: ISO/IEC FCD 20944-3

1	2	(3)	4	5	(6)	(7)
MB ¹	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of com- ment ²	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
GB01	General		te	There are <i>still</i> a number of incorrect references to 'PHP' that need to be amended to ECMAScript.		
GB02	1		ed	'This Part of this International Standard specifies provisions that are common across API bindings for the 20944 family of standards, and this Part provides the individual API bindings themselves.' This sentence needs rewriting to improve understanding; the issue is that "this Part" appears twice in slightly different contexts.		
GB03	6.3.1		te	"new_path = mdrib_get_path(ch)" - There is a semi-colon missing from the end of the statement. The type of new_path is not clear from the example. If the new_path is a pointer the responsibility for managing the memory referenced by the pointer is not clear.		
GB04	6		te	The examples use implicit conventions for the use of pointers, heap memory allocation and heap memory de-allocation. These conventions need to be made explicit for the standard to provide a definitive C language binding. Without understanding the conventions used, it is not clear how the API can be used without provoking memory leaks or accidentally releasing memory that is still in use.		
GB05	10		ed	It is still not clear why this placeholder needs to be retained.		
GB06	11,12,13		te	There should be an explicit statement that the C, Java and ECMAScript datatypes are specified in the respective standards. This statement (or statements) has not been added despite the proposed disposition on our comment on the previous draft.		

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Template for comments and secretariat observations

Date: 2008-09-26

Document: **ISO/IEC 20944-3**

1	2	(3)	4	5	(6)	(7)
MB ¹	Clause No./ Subclause No./ Annex (e.g. 3.1)	Paragraph/ Figure/Table/ Note (e.g. Table 1)	Type of com- ment ²	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
**	Title		ed	Give full form of abbreviations in title.	Replace "API" with "Application programming interface (API)".	
**	General		ed	The document incorrectly references itself.	The document shall reference itself throughout (except in the fixed introductory paragraphs to Clauses 2 and 3) as "this part of ISO/IEC 20944". Other parts shall be referenced as "ISO/IEC 20944-n". The series as a whole shall be referenced as "ISO/IEC 20944".	
**	2		ed	In accordance with ISO/IEC Directives Part 2, 6.2.2, normative references listed in this clause shall be cited elsewhere in the document "in a normative manner"; i.e. in a way which indicates that the user is obliged to consult them in order to apply the document.	In the current draft, none of 9899, 11404 and 16262 is cited elsewhere in the document. 13886 and RFC 2396 are cited, but it is not explicitly stated that the user must consult them. If they are indispensable to the user, redraft, for example, as follows: "The notation of ISO/IEC 13886 ... shall be used to describe service interfaces." "Relative paths, ..., shall be as specified in RFC 2396, Clause 5" Those documents listed in Clause 2 but which are not normative should be moved to a bibliography at the end of the document.	
**	Footnotes 1,3		ed	This type of information is not given in International Standards	Delete footnote.	
**	3		ed	Introductory paragraph not drafted in accordance with the ISO/IEC Directives Part 2. Footnote 4 is unclear and gives no useful information.	Replace first sentence with: "For the purposes of this document, the terms and definitions given in ISO/IEC 20944-1 apply." Delete footnote 4.	
**	Footnote 5		ed	Give informative references in the bibliography.	Move this information to the bibliography.	

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**	General		ed	Document incorrectly uses the phrase "this Clause" throughout.	Re-draft document so that the term "clause" begins with a lower case "c", unless it is used to refer to a clause elsewhere in the document, in which case it shall be spelled with a capital "C" and followed by the clause number in question.	
**	General		ed	Document incorrectly uses the term "subclause" throughout.	In accordance with ISO/IEC Directives Part 2, 6.6.7.3.1, it is unnecessary to precede a reference to a subclause with both the term "subclause" and the subclause reference number. Remove the term subclause throughout document, leaving only the reference number of the subclause.	

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