

[MS-WSP]: Windows Search Protocol

This topic lists the Errata found in [MS-WSP] since it was last published. Since this topic is updated frequently, we recommend that you subscribe to these RSS or Atom feeds to receive update notifications.



Errata are subject to the same terms as the Open Specifications documentation referenced.

Errata below are for Protocol Document Version [V34.0 – 2020/03/04](#).

Errata Published*	Description
2020/08/17	<p>In Section 2.2.3.11 CPMGetRowsIn, the valid values of the eType field have been updated:</p> <p>Value Meaning</p> <p>0x00000000 There is no SeekDescription; the SeekDescription field is omitted.</p> <p>eRowSeekNext</p> <p>0x00000001 SeekDescription contains a CRowSeekNext structure.</p> <p>eRowSeekAt</p> <p>0x00000002 SeekDescription contains a CRowSeekAt structure.</p> <p>eRowSeekAtRatio</p> <p>0x00000003 SeekDescription contains a CRowSeekAtRatio structure.</p> <p>eRowSeekByBookmark</p> <p>0x00000004 SeekDescription contains a CRowSeekByBookmark structure.</p> <p>To</p> <p>Value Meaning</p> <p>eRowSeekNext</p> <p>0x00000001 SeekDescription contains a CRowSeekNext structure.</p> <p>eRowSeekAt</p> <p>0x00000002 SeekDescription contains a CRowSeekAt structure.</p> <p>eRowSeekAtRatio</p> <p>0x00000003 SeekDescription contains a CRowSeekAtRatio structure.</p>

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	<p>eRowSeekByBookmark</p> <p>0x00000004 SeekDescription contains a CRowSeekByBookmark structure.</p> <p>In Section 3.1.5.2.6 Receiving a CPMGetRowsIn Request, the following</p> <p>Changed from:</p> <ul style="list-style-type: none"> • If eType == 0x00000000, then no work needs to be done to reposition the next row's read index within the rowset. <p>Changed to:</p> <ul style="list-style-type: none"> • If eType == 0x00000000, then set status = STATUS_INVALID_PARAMETER(0xC000000D).
2020/08/17	<p>In section 2.2.3.5 CPMCreateQueryOut the size of the aCursors field was changed from 4 bytes to variable.</p> <p>Changed from:</p> <p>aCursors (4 bytes): An array of 32-bit unsigned integers representing the handles to cursors with the number of elements equal to the number of categories in the CategorizationSet field of CPMCreateQueryIn message plus one element, representing an uncategorized cursor.</p> <p>Changed to:</p> <p>aCursors (variable): An array of 32-bit unsigned integers representing the handles to cursors with the number of elements equal to the number of categories in the CategorizationSet field of CPMCreateQueryIn message plus one element, representing an uncategorized cursor.</p>
2020/06/08	<p>In Section 2.2.4, Errors, added 4 error codes.</p> <p>Changed from:</p> <p>DB_S_ENDOFROWSET (0x00040EC6) ...</p> <p>Changed to:</p> <p>DB_S_ENDOFROWSET (0x00040EC6) CI_E_SHUTDOWN (0x80041812) CI_E_NOT_INITIALIZED (0x8004180B) DB_E_BADBINDINFO (0x80040E08) MSS_E_CATALOGNOTFOUND (0x80042103)</p> <p>In Section 3.1.5.2.1, Receiving a CPMConnectIn Request, changed from:</p> <p>8. Report any errors encountered during message preparation or during any abstract interface call to the GSS. Errors that are specific to this request: ...</p>

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	<p>STATUS_INVALID_PARAMETER_MIX: Generated when the client version as passed in this message is smaller than CI_VERSION_WDS30 (0x102).</p> <p>Changed to:</p> <p>8. Report any errors encountered during message preparation or during any abstract interface call to the GSS. Errors that are specific to this request: ... STATUS_INVALID_PARAMETER_MIX: Generated when the client version as passed in this message is smaller than 0x102.</p> <p>In Section 3.1.5.2.2, Receiving a CPMCreateQueryIn Request, changed from:</p> <p>4. Report any errors encountered during message preparation or during any abstract interface call to the GSS. The following errors are specific to this request: ... STATUS_INVALID_PARAMETER_MIX: generated when the client version, as passed in this message, is smaller than CI_VERSION_WDS30 (0x102).</p> <p>Changed to:</p> <p>4. Report any errors encountered during message preparation or during any abstract interface call to the GSS. The following errors are specific to this request: ... STATUS_INVALID_PARAMETER_MIX: generated when the client version, as passed in this message, is smaller than 0x102.</p>										
2020/06/08	<p>In Section 2.2.1.1, CBaseStorageVariant, vType value table was changed to add VT_CF. Changed from:</p> <table border="1" data-bbox="402 1178 1414 1346"> <tbody> <tr> <td data-bbox="402 1178 907 1262">VT_BSTR 0x0008</td> <td data-bbox="907 1178 1414 1262">vValue</td> </tr> <tr> <td data-bbox="402 1262 907 1346">VT_LPSTR 0x001E</td> <td data-bbox="907 1262 1414 1346">A null-terminated string using the system code page.</td> </tr> </tbody> </table> <p>Changed to:</p> <table border="1" data-bbox="402 1524 1414 1776"> <tbody> <tr> <td data-bbox="402 1524 907 1608">VT_BSTR 0x0008</td> <td data-bbox="907 1524 1414 1608">vValue</td> </tr> <tr> <td data-bbox="402 1608 907 1692">VT_CF 0x0011</td> <td data-bbox="907 1608 1414 1692">A VT_CF structure as specified in section 2.2.1.1.1.7.</td> </tr> <tr> <td data-bbox="402 1692 907 1776">VT_LPSTR 0x001E</td> <td data-bbox="907 1692 1414 1776">A null-terminated string using the system code page.</td> </tr> </tbody> </table>	VT_BSTR 0x0008	vValue	VT_LPSTR 0x001E	A null-terminated string using the system code page.	VT_BSTR 0x0008	vValue	VT_CF 0x0011	A VT_CF structure as specified in section 2.2.1.1.1.7.	VT_LPSTR 0x001E	A null-terminated string using the system code page.
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	<p>In Section 2.2.1.1.1.1, DECIMAL, bit table with definitions were revised. Changed from:</p> <table border="1" data-bbox="402 451 1295 714"> <tr> <td>0</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td> </tr> <tr> <td colspan="16">Hi32</td> <td colspan="16"></td> </tr> <tr> <td colspan="16"></td> <td colspan="16">Lo32</td> </tr> <tr> <td colspan="16"></td> <td colspan="16">Mid32</td> </tr> </table> <p>Hi32 (4 bytes): The highest 32 bits of the 96-bit integer.</p> <p>Lo32 (4 bytes): The lowest 32 bits of the 96-bit integer.</p> <p>Mid32 (4 bytes): The middle 32 bits of the 96-bit integer.</p> <p>Changed to:</p> <table border="1" data-bbox="393 1081 1286 1407"> <tr> <td>0</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td> </tr> <tr> <td colspan="10"><u>wReserved</u></td> <td colspan="10">scale</td> <td colspan="6">sign</td> </tr> <tr> <td colspan="16">Hi32</td> <td colspan="16"></td> </tr> <tr> <td colspan="16"></td> <td colspan="16">Lo64</td> </tr> <tr> <td colspan="16"></td> <td colspan="16">...</td> </tr> </table> <p>wReserved (2 bytes): MUST be set to zero and MUST be ignored.</p> <p>scale (1 byte): The number of decimal places for the number. Valid values are from 0 to 28.</p> <p>sign (1 byte): Indicates the sign; 0 for positive numbers or DECIMAL_NEG(0x80) for negative numbers.</p> <p>Hi32 (4 bytes): The high 32 bits of the number.</p> <p>Lo64 (8 bytes): The low 64 bits of the number.</p>	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Hi32																																																Lo32																																Mid32																0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	<u>wReserved</u>										scale										sign						Hi32																																																Lo64																																...															
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	<p>Added new Section 2.2.1.1.1.7, VT_CF: 2.2.1.1.1.7 VT_CF VT_CF is used for clipboard format.</p> <table border="1" data-bbox="402 420 1295 898"> <tr> <td>0</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td> <td>10</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td> <td>20</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td> <td>30</td><td>1</td> </tr> <tr> <td colspan="16" style="text-align: center;">cbSize</td> <td colspan="16"></td> </tr> <tr> <td colspan="16" style="text-align: center;">scale</td> <td colspan="16"></td> </tr> <tr> <td colspan="16" style="text-align: center;">sign</td> <td colspan="16"></td> </tr> <tr> <td colspan="16" style="text-align: center;">ulClipFmt</td> <td colspan="16"></td> </tr> <tr> <td colspan="16" style="text-align: center;">pClipData</td> <td colspan="16"></td> </tr> <tr> <td colspan="16" style="text-align: center;">vData (variable)</td> <td colspan="16"></td> </tr> <tr> <td colspan="16" style="text-align: center;">...</td> <td colspan="16"></td> </tr> </table> <p>cbSize (4 bytes): A 32-bit unsigned integer that specif</p> <p>ulClipFmt (4 bytes): A 32-bit unsigned integer that specifies the clipboard format.</p> <p>pClipData (4 bytes): A 32-bit unsigned integer that specifies the offset to clipboard format data.</p> <p>vData (variable): The clipboard format data.</p> <p>In Section 2.2.1.13, CRelDocRestriction, added description of 'docid'. Changed from:</p> <p>In the example, "Windows" is the application name, "SystemIndex" is the catalog name, and "153" is the document ID for the document in decimal notation.<3></p> <p>Changed to:</p> <p>In the example, "docid" is a unique 32-bit unsigned integer, "Windows" is the application name, "SystemIndex" is the catalog name, and "153" is the document ID for the document in decimal notation.<3></p> <p>In Section 3.1.5.2.4, Receiving a CPMGetQueryStatusExInRequest, revised CFilteredDocuments and CTotalDocuments.</p> <p>Changed from: Use Output parameters:</p>	0	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	20	1	2	3	4	5	6	7	8	9	30	1	cbSize																																scale																																sign																																ulClipFmt																																pClipData																																vData (variable)																																...																															
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	<p>cFilteredDocuments= CFilteredDocuments SetcDocumentsToFilter to: CTotalDocuments - CFilteredDocuments</p> <p>Changed to:</p> <p>Use Output parameters: cFilteredDocuments = cFilteredDocuments Set cDocumentsToFilter to: cTotalDocuments -cFilteredDocuments</p> <p>In Section 3.1.5.2.6, Receiving a CPMGetRowsIn Request, revised _chapter to _chapt.</p> <p>Changed from:</p> <p>Call the GetBookmarkPosition abstract interface to the GSS with QueryIdentifier, CursorHandle, and the bookmark handle value as arguments.</p> <p>Use the bmIndex (section 3.1.7) returned as an argument to SetNextGetRowsPosition (section 3.1.7), along with QueryIdentifier, CursorHandle, and _chapter.</p> <p>Call the GetRows abstract interface with QueryIdentifier, CursorHandle, 1, and _fBwdFetch as arguments.</p> <p>5.After the position is set, retrieve the desired row from the GSS by calling the GetRows abstract interface with the HANDLE of the named pipe over which the server has received the CPMGetRowsIn message as its QueryIdentifier argument, with the _hCursor handle as its CursorHandle argument, with _chapter as its chapter argument, with _cRowsToTransfer as its NumRowsRequested argument, and with _fBwdFetch as its FetchForward argument. Do this in all cases, except for step 4 bullet 3.</p> <p>6. Copy as many rows as fit in a buffer, the size of which is indicated by _cbReadBuffer (section 2.2.3.11), but not more than indicated by _cRowsToTransfer (section 2.2.3.11). Thereafter, reposition the cursor to reflect the actual number of returned rows by calling the SetNextGetRowsPosition abstract interface with QueryIdentifier, CursorHandle and _chapter as arguments and with Index set to the old index (as obtained by calling GetNextRowsPosition(QueryIdentifier, _hCursor, _chapter)) plus the number of rows that fit in the buffer.</p> <p>Changed to:</p> <p>Call the GetBookmarkPosition abstract interface to the GSS with QueryIdentifier, CursorHandle, and the bookmark handle value as arguments.</p> <p>Use the bmIndex (section 3.1.7) returned as an argument to SetNextGetRowsPosition (section 3.1.7), along with QueryIdentifier, CursorHandle, and _chapt.</p> <p>Call the GetRows abstract interface with QueryIdentifier, CursorHandle, 1, and _fBwdFetch as arguments.</p> <p>5. After the position is set, retrieve the desired row from the GSS by calling the GetRows abstract interface with the HANDLE of the named pipe over which the server has received the CPMGetRowsIn message as its QueryIdentifier argument, with the _hCursor handle as its CursorHandle argument, with _chapt as its chapter argument, with _cRowsToTransfer as its</p>

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	<p>NumRowsRequested argument, and with _fBwdFetch as its FetchForward argument. Do this in all cases, except for step 4 bullet 3.</p> <p>6. Copy as many rows as fit in a buffer, the size of which is indicated by _cbReadBuffer (section 2.2.3.11), but not more than indicated by _cRowsToTransfer (section 2.2.3.11). Thereafter, reposition the cursor to reflect the actual number of returned rows by calling the SetNextGetRowsPosition abstract interface with QueryIdentifier, CursorHandle and _chapt as arguments and with Index set to the old index (as obtained by calling GetNextRowsPosition(QueryIdentifier, _hCursor, _chapt)) plus the number of rows that fit in the buffer.</p> <p>In Section 3.1.7, Other Local Events, added definition for Workid. Changed from:</p> <p>FetchForward, a 32-bit unsigned integer identifying whether the rows are to be fetched in forward order or in reverse. (0x00000000 for forward, 0x00000001 for reverse)</p> <p>Changed to:</p> <p>FetchForward, a 32-bit unsigned integer identifying whether the rows are to be fetched in forward order or in reverse. (0x00000000 for forward, 0x00000001 for reverse)</p> <p>Workid, a 32-bit unsigned integer representing the document ID identifying the document for which a property is to be fetched.</p>
2020/05/25	<p>In Sections 2 and 3, field and structure names were corrected (e.g., DBRANGEBOUND_EXACT changed to DBRANGEBOUNDTYPE_EXACT and VT_Vector changed to VT_VECTOR). See the PDF doc here for details.</p>

*Date format: YYYY/MM/DD