

[MS-TDS]: Tabular Data Stream Protocol

This topic lists the Errata found in [MS-TDS] 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 [V26.0 – 2019/03/13](#).

Errata Published*	Description																		
2019/09/02	<p>In Section 2.2.3.1.3, Length, the minimum, maximum, and default values of a TDS packet size have been clarified.</p> <p>Changed from:</p> <p>Length is the size of the packet including the 8 bytes in the packet header. It is the number of bytes from the start of this header to the start of the next packet header. Length is a 2-byte, unsigned short int and is represented in network byte order (big-endian). Starting with TDS 7.3, the Length MUST be the negotiated packet size when sending a packet from client to server, unless it is the last packet of a request (that is, the EOM bit in Status is ON) or the client has not logged in.</p> <p>Changed to:</p> <p>Length is the size of the packet including the 8 bytes in the packet header. It is the number of bytes from the start of this header to the start of the next packet header. Length is a 2-byte, unsigned short int and is represented in network byte order (big-endian). The Length value MUST be greater than or equal to 512 bytes and smaller than or equal to 32,767 bytes. The default value is 4,096 bytes. Starting with TDS 7.3, the Length MUST be the negotiated packet size when sending a packet from client to server, unless it is the last packet of a request (that is, the EOM bit in Status is ON) or the client has not logged in.</p>																		
2019/06/24	<p>In Section 2.2.7.8, ENVCHANGE, the syntax of the NEWVALUE value for the Commit Transaction type has been changed from "0x00" to %0x00.</p> <p>Changed from:</p> <table border="1" data-bbox="407 1440 1321 1646"> <thead> <tr> <th>Type</th> <th>Old Value</th> <th>New Value</th> </tr> </thead> <tbody> <tr> <td>...</td> <td>...</td> <td>...</td> </tr> <tr> <td>9: Commit Transaction</td> <td>OLDVALUE = B_VARBYTE</td> <td>NEWVALUE = "0x00"</td> </tr> <tr> <td>...</td> <td>...</td> <td>...</td> </tr> </tbody> </table> <p>Changed to:</p> <table border="1" data-bbox="407 1755 1321 1856"> <thead> <tr> <th>Type</th> <th>Old Value</th> <th>New Value</th> </tr> </thead> <tbody> <tr> <td>...</td> <td>...</td> <td>...</td> </tr> </tbody> </table>	Type	Old Value	New Value	9: Commit Transaction	OLDVALUE = B_VARBYTE	NEWVALUE = "0x00"	Type	Old Value	New Value
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2019/05/13	<p data-bbox="391 468 1323 531">In section 2.2.6.4, LOGIN7, changed the description of the ClientTimeZone parameter. Changed from:</p> <table border="1" data-bbox="391 535 1101 737"> <thead> <tr> <th data-bbox="391 535 599 583">Parameter</th> <th data-bbox="599 535 1101 583">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="391 583 599 636">...</td> <td data-bbox="599 583 1101 636">...</td> </tr> <tr> <td data-bbox="391 636 599 688">ClientTimeZone</td> <td data-bbox="599 636 1101 688">The time zone of the client machine.</td> </tr> <tr> <td data-bbox="391 688 599 737">...</td> <td data-bbox="599 688 1101 737">...</td> </tr> </tbody> </table> <p data-bbox="391 747 526 774">Changed to:</p> <table border="1" data-bbox="391 779 1101 980"> <thead> <tr> <th data-bbox="391 779 599 827">Parameter</th> <th data-bbox="599 779 1101 827">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="391 827 599 879">...</td> <td data-bbox="599 827 1101 879">...</td> </tr> <tr> <td data-bbox="391 879 599 932">ClientTimeZone</td> <td data-bbox="599 879 1101 932">This field is not used and can be set to zero.</td> </tr> <tr> <td data-bbox="391 932 599 980">...</td> <td data-bbox="599 932 1101 980">...</td> </tr> </tbody> </table> <p data-bbox="391 993 1347 1045">In subsections of section 4, Protocol Examples, changed the value of the ClientTimeZone parameter.</p> <p data-bbox="391 1052 1390 1104">In section 4.2, Login Request, and section 4.3, Login Request with Federated Authentication, changed from:</p> <pre data-bbox="488 1121 859 1241"> ... <ClientTimZone> <LONG>E0 01 00 00 </LONG> </ClientTimZone> ... </pre> <p data-bbox="391 1272 526 1299">Changed to:</p> <pre data-bbox="488 1316 850 1436"> ... <ClientTimeZone> <LONG>00 00 00 00 </LONG> </ClientTimeZone> ... </pre> <p data-bbox="391 1467 1278 1495">In section 4.16, FeatureExt with SESSIONRECOVERY Feature Data, changed from:</p> <pre data-bbox="488 1512 907 1631"> ... <ClientTimZone> <DWORD>E0 01 00 00 </DWORD> </ClientTimZone> ...> </pre> <p data-bbox="391 1663 526 1690">Changed to:</p> <pre data-bbox="488 1707 907 1827"> ... <ClientTimeZone> <DWORD>00 00 00 00 </DWORD> </ClientTimeZone> ... </pre>	Parameter	Description	ClientTimeZone	The time zone of the client machine.	Parameter	Description	ClientTimeZone	This field is not used and can be set to zero.
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2019/05/13	<p>In various sections, changed the names of BIGVARBINTYPE and BIGVARCHRTYPE to BIGVARBINARYTYPE and BIGVARCHARTYPE, respectively.</p> <p>In section 2.2.5.4.2, Variable-Length Data Types, changed from:</p> <pre> ... BIGVARBINTYPE = %xA5 ; VarBinary BIGVARCHRTYPE = %xA7 ; VarChar BIGBINARYTYPE = %xAD ; Binary ... USHORTLEN_TYPE = BIGVARBINTYPE / BIGVARCHRTYPE </pre> <p>Changed to:</p> <pre> ... BIGVARBINARYTYPE = %xA5 ; VarBinary BIGVARCHARTYPE = %xA7 ; VarChar BIGBINARYTYPE = %xAD ; Binary ... USHORTLEN_TYPE = BIGVARBINARYTYPE / BIGVARCHARTYPE </pre> <p>In section 2.2.5.4.3, Partially Length-Prefixed Data Types, changed from:</p> <pre> PARTLENTYPE = XMLTYPE / BIGVARCHRTYPE / BIGVARBINTYPE / NVARCHARTYPE / UDTTYPE </pre> <p>BIGVARCHRTYPE, BIGVARBINTYPE, and NVARCHARTYPE can represent two types each:</p> <p>Changed to:</p> <pre> PARTLENTYPE = XMLTYPE / BIGVARCHARTYPE / BIGVARBINARYTYPE / NVARCHARTYPE / UDTTYPE </pre> <p>BIGVARCHARTYPE, BIGVARBINARYTYPE, and NVARCHARTYPE can represent two types each:</p> <p>In section 2.2.5.5.4, SQL_VARIANT Values, changed from:</p> <table border="1" data-bbox="391 1793 1417 1898"> <thead> <tr> <th data-bbox="391 1793 800 1845">VARIANT_BASETYPE</th> <th data-bbox="800 1793 1040 1845">VARIANT_PROPBYTES</th> <th data-bbox="1040 1793 1417 1845">VARIANT_PROPERTIES</th> </tr> </thead> <tbody> <tr> <td data-bbox="391 1845 800 1898">...</td> <td data-bbox="800 1845 1040 1898">...</td> <td data-bbox="1040 1845 1417 1898">...</td> </tr> </tbody> </table>	VARIANT_BASETYPE	VARIANT_PROPBYTES	VARIANT_PROPERTIES
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	BIGVARBINTYPE, BIGBINARYTYPE	2	2 bytes specifying max length

	BIGVARCHRTYPE, BIGCHARTYPE, NVARCHARTYPE, NCHARTYPE	7	5-byte COLLATION, followed by a 2-byte max length
	Changed to:		
	VARIANT_BASETYPE	VARIANT_PROPBYTES	VARIANT_PROPERTIES

	BIGVARBINARYTYPE, BIGBINARYTYPE	2	2 bytes specifying max length

	BIGVARCHARTYPE, BIGCHARTYPE, NVARCHARTYPE, NCHARTYPE	7	5-byte COLLATION, followed by a 2-byte max length
	<p>In section 2.2.5.6, Type Info Rule Definition, changed from:</p> <p>...</p> <p>COLLATION occurs only if the type is BIGCHARTYPE, BIGVARCHRTYPE, TEXTTYPE, NTEXTTYPE, NCHARTYPE, or NVARCHARTYPE.</p> <p>Changed to:</p> <p>...</p> <p>COLLATION occurs only if the type is BIGCHARTYPE, BIGVARCHARTYPE, TEXTTYPE, NTEXTTYPE, NCHARTYPE, or NVARCHARTYPE.</p>		

*Date format: YYYY/MM/DD