

[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 [V24.0 – 2018/03/16](#).

Errata Published*	Description										
2018/07/02	<p>In Section 2.2.6.4, LOGIN7, in the first table, one product behavior note was revised and a new product behavior note was added to specify the value returned by SQL Server for ROWCOUNT.</p> <p>Changed from:</p> <table border="1" data-bbox="516 804 1414 1606"> <thead> <tr> <th data-bbox="516 804 963 856">Parameter</th> <th data-bbox="963 804 1414 856">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="516 856 963 909">...</td> <td data-bbox="963 856 1414 909">...</td> </tr> <tr> <td data-bbox="516 909 963 1234">OptionFlags2</td> <td data-bbox="963 909 1414 1234"> ... <ul style="list-style-type: none"> • fODBC: Set if the client is the ODBC driver. This causes the server to set ANSI_DEFAULTS to ON, CURSOR_CLOSE_ON_COMMIT and IMPLICIT_TRANSACTIONS to OFF, TEXTSIZE to 0x7FFFFFFF (2GB) (TDS 7.2 and earlier), TEXTSIZE to infinite (introduced in TDS 7.3), and ROWCOUNT to infinite.<20> ... </td> </tr> <tr> <td data-bbox="516 1234 963 1560">TypeFlags</td> <td data-bbox="963 1234 1414 1560"> ... <ul style="list-style-type: none"> • fOLEDB: Set if the client is the OLEDB driver. This causes the server to set ANSI_DEFAULTS to ON, CURSOR_CLOSE_ON_COMMIT and IMPLICIT_TRANSACTIONS to OFF, TEXTSIZE to 0x7FFFFFFF (2GB) (TDS 7.2 and earlier), TEXTSIZE to infinite (introduced in TDS 7.3), and ROWCOUNT to infinite. ... </td> </tr> <tr> <td data-bbox="516 1560 963 1606">...</td> <td data-bbox="963 1560 1414 1606">...</td> </tr> </tbody> </table> <p><20> Section 2.2.6.4: ANSI_DEFAULTS, CURSOR_CLOSE_ON_COMMIT, IMPLICIT_TRANSACTIONS, and ROWCOUNT are supported by SQL Server 7.0, SQL Server 2000, SQL Server 2005, SQL Server 2008, SQL Server 2008 R2, SQL Server 2012, SQL Server 2014, and SQL Server 2016.</p> <p>Changed to:</p>	Parameter	Description	OptionFlags2	... <ul style="list-style-type: none"> • fODBC: Set if the client is the ODBC driver. This causes the server to set ANSI_DEFAULTS to ON, CURSOR_CLOSE_ON_COMMIT and IMPLICIT_TRANSACTIONS to OFF, TEXTSIZE to 0x7FFFFFFF (2GB) (TDS 7.2 and earlier), TEXTSIZE to infinite (introduced in TDS 7.3), and ROWCOUNT to infinite.<20> ...	TypeFlags	... <ul style="list-style-type: none"> • fOLEDB: Set if the client is the OLEDB driver. This causes the server to set ANSI_DEFAULTS to ON, CURSOR_CLOSE_ON_COMMIT and IMPLICIT_TRANSACTIONS to OFF, TEXTSIZE to 0x7FFFFFFF (2GB) (TDS 7.2 and earlier), TEXTSIZE to infinite (introduced in TDS 7.3), and ROWCOUNT to infinite.
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2018/06/18	<p data-bbox="500 1260 1364 1371">In Section 1.2.2, Informative References, the following reference was added: [MSDOCS-DBMirror] Microsoft Corporation, "Database Mirroring in SQL Server", https://docs.microsoft.com/en-us/dotnet/framework/data/adonet/sql/database-mirroring-in-sql-server</p>											
2018/06/18	<p data-bbox="500 1396 1299 1449">In Section 2.2.6.4, LOGIN7, in the second table, the last paragraph of the description of the COLUMNENCRYPTION FeatureExt was changed.</p> <p data-bbox="500 1455 662 1486">Changed from:</p> <table border="1" data-bbox="516 1491 1414 1858"> <thead> <tr> <th data-bbox="516 1491 966 1545">FeatureId</th> <th data-bbox="966 1491 1414 1545">FeatureData Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="516 1545 966 1591">...</td> <td data-bbox="966 1545 1414 1591">...</td> </tr> <tr> <td data-bbox="516 1591 966 1858">%0x04 (COLUMNENCRYPTION) (introduced in TDS 7.4)</td> <td data-bbox="966 1591 1414 1858"> ... <p data-bbox="982 1638 1388 1848">EnclaveType: This field MAY<25> be populated by the server and used by the client to identify the type of enclave that the server is configured to use. If EnclaveType is not returned and the column encryption version is returned as 2, the driver MUST raise an error.</p> </td> </tr> </tbody> </table>		FeatureId	FeatureData Description	%0x04 (COLUMNENCRYPTION) (introduced in TDS 7.4)	... <p data-bbox="982 1638 1388 1848">EnclaveType: This field MAY<25> be populated by the server and used by the client to identify the type of enclave that the server is configured to use. If EnclaveType is not returned and the column encryption version is returned as 2, the driver MUST raise an error.</p>				
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2018/06/18	<p data-bbox="500 1222 1256 1272">In Section 2.2.6.4, LOGIN7, in the second table, the description of the AZURESQLSUPPORT FeatureExt was changed.</p> <p data-bbox="500 1314 662 1341">Changed from:</p> <table border="1" data-bbox="516 1377 1416 1890"> <thead> <tr> <th data-bbox="516 1377 967 1428">FeatureId</th> <th data-bbox="967 1377 1416 1428">FeatureData Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="516 1428 967 1482">...</td> <td data-bbox="967 1428 1416 1482">...</td> </tr> <tr> <td data-bbox="516 1482 967 1890"> %0x08 (AZURESQLSUPPORT) (introduced in TDS 7.4) </td> <td data-bbox="967 1482 1416 1890"> The presence of the AZURESQLSUPPORT FeatureExt indicates that the client MAY<27> support failover partner login with read-only intent in Azure SQL Database. The feature data is described as follows: Length = DWORD FeatureData = BYTE </td> </tr> </tbody> </table>	FeatureId	FeatureData Description	%0x08 (AZURESQLSUPPORT) (introduced in TDS 7.4)	The presence of the AZURESQLSUPPORT FeatureExt indicates that the client MAY<27> support failover partner login with read-only intent in Azure SQL Database. The feature data is described as follows: Length = DWORD FeatureData = BYTE				
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2018/06/18	<p data-bbox="500 1358 1411 1436">In Section 2.2.6.6, RPC Request, the definition for EnclavePackage was added to the stream-specific rules, and the description of EnclavePackage in the table was clarified.</p> <p data-bbox="500 1482 662 1509">Changed from:</p> <pre data-bbox="553 1539 1365 1864"> . . . ParameterData = ParamMetaData ParamLenData [ParamCipherInfo] BatchFlag = %x80 / %xFF ; (Changed to %xFF in TDS 7.2) NoExecFlag = %xFE ; (introduced in TDS 7.2) RPCReqBatch = NameLenProcID OptionFlags *EnclavePackage *ParameterData </pre>												

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2018/06/18	<p>In Section 2.2.7.10, FEATUREEXTACK, in the second table, the last paragraph of the description of the COLUMNENCRYPTION FeatureExt was changed.</p> <p>Changed from:</p> <table border="1" data-bbox="516 464 1416 884"> <thead> <tr> <th data-bbox="516 464 969 516">FeatureId</th> <th data-bbox="969 464 1416 516">FeatureData Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="516 516 969 569">...</td> <td data-bbox="969 516 1416 569">...</td> </tr> <tr> <td data-bbox="516 569 969 831">%0x04 (COLUMNENCRYPTION) (introduced in TDS 7.4)</td> <td data-bbox="969 569 1416 831">... EnclaveType: This field MAY<47> be populated by the server and used by the client to identify the type of enclave that the server is configured to use. If EnclaveType is not returned and the column encryption version is returned as 2, the driver MUST raise an error.</td> </tr> <tr> <td data-bbox="516 831 969 884">...</td> <td data-bbox="969 831 1416 884">...</td> </tr> </tbody> </table> <p>Changed to:</p> <table border="1" data-bbox="516 957 1416 1717"> <thead> <tr> <th data-bbox="516 957 969 1010">FeatureId</th> <th data-bbox="969 957 1416 1010">FeatureData Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="516 1010 969 1062">...</td> <td data-bbox="969 1010 1416 1062">...</td> </tr> <tr> <td data-bbox="516 1062 969 1661">%0x04 (COLUMNENCRYPTION) (introduced in TDS 7.4)</td> <td data-bbox="969 1062 1416 1661">... EnclaveType: This field is a string that MAY<47> be populated by the server and used by the client to identify the type of enclave that the server is configured to use. During login for the initial connection, the client can request COLUMNENCRYPTION with the Length as 1, and either 1 or 2 as the value of COLUMNENCRYPTION_VERSION, and no EnclaveType. When the client sends COLUMNENCRYPTION_VERSION as 2 and no EnclaveType, the server MUST return COLUMNENCRYPTION_VERSION as 2 together with the value of EnclaveType, if the server supports this column encryption version. If EnclaveType is not returned and the column encryption version is returned as 2, the client driver MUST raise an error.</td> </tr> <tr> <td data-bbox="516 1661 969 1717">...</td> <td data-bbox="969 1661 1416 1717">...</td> </tr> </tbody> </table>	FeatureId	FeatureData Description	%0x04 (COLUMNENCRYPTION) (introduced in TDS 7.4)	... EnclaveType: This field MAY<47> be populated by the server and used by the client to identify the type of enclave that the server is configured to use. If EnclaveType is not returned and the column encryption version is returned as 2, the driver MUST raise an error.	FeatureId	FeatureData Description	%0x04 (COLUMNENCRYPTION) (introduced in TDS 7.4)	... EnclaveType: This field is a string that MAY<47> be populated by the server and used by the client to identify the type of enclave that the server is configured to use. During login for the initial connection, the client can request COLUMNENCRYPTION with the Length as 1, and either 1 or 2 as the value of COLUMNENCRYPTION_VERSION, and no EnclaveType. When the client sends COLUMNENCRYPTION_VERSION as 2 and no EnclaveType, the server MUST return COLUMNENCRYPTION_VERSION as 2 together with the value of EnclaveType, if the server supports this column encryption version. If EnclaveType is not returned and the column encryption version is returned as 2, the client driver MUST raise an error.
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FeatureId	FeatureData Description																
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%0x04 (COLUMNENCRYPTION) (introduced in TDS 7.4)	... EnclaveType: This field is a string that MAY<47> be populated by the server and used by the client to identify the type of enclave that the server is configured to use. During login for the initial connection, the client can request COLUMNENCRYPTION with the Length as 1, and either 1 or 2 as the value of COLUMNENCRYPTION_VERSION, and no EnclaveType. When the client sends COLUMNENCRYPTION_VERSION as 2 and no EnclaveType, the server MUST return COLUMNENCRYPTION_VERSION as 2 together with the value of EnclaveType, if the server supports this column encryption version. If EnclaveType is not returned and the column encryption version is returned as 2, the client driver MUST raise an error.																
...	...																
2018/06/18	<p>In Section 2.2.7.10, FEATUREEXTACK, in the second table, the description of the AZURESQLSUPPORT FeatureExt was changed.</p> <p>Changed from:</p>																

FeatureId	FeatureData Description
...	...
%0x08 (AZURESQLSUPPORT) (introduced in TDS 7.4)	<p>The presence of the AZURESQLSUPPORT FeatureExt indicates that failover partner login with read-only intent to Azure SQL Database MAY<49> be supported. Whenever a login response stream is sent for a TDS connection whose login request includes an AZURESQLSUPPORT FeatureExt token, the server login response message stream can optionally include a FEATUREEXTACK token by setting the corresponding feature switch in Azure SQL Database. If it is included, the FEATUREEXTACK token stream MUST include the AZURESQLSUPPORT FeatureId.</p> <p style="text-align: center;">FeatureAckData = BYTE</p> <p>BYTE: The Bit 0 flag specifies that failover partner login with read-only intent is supported.</p>
...	...

Changed to:

FeatureId	FeatureData Description
...	...
%0x08 (AZURESQLSUPPORT) (introduced in TDS 7.4)	<p>The presence of the AZURESQLSUPPORT FeatureExt indicates whether failover partner login with read-only intent to Azure SQL Database MAY<49> be supported. For information about failover partner, see [MSDOCS-DBMirror]. Whenever a login response stream is sent for a TDS connection whose login request includes an AZURESQLSUPPORT FeatureExt token, the server login response message stream can optionally include a FEATUREEXTACK token by setting the corresponding feature switch in Azure SQL Database. If it is included, the FEATUREEXTACK token stream MUST include the AZURESQLSUPPORT FeatureId.</p> <p style="text-align: center;">FeatureAckData = BYTE</p> <p>BYTE: The Bit 0 flag specifies that failover partner login with read-only</p>

Errata Published*	Description	
		intent is supported. The values of this BYTE are as follows: <ul style="list-style-type: none"> ● 0 = The server does not support the AZURESQLSUPPORT feature extension. ● 1 = The server supports the AZURESQLSUPPORT feature extension.

*Date format: YYYY/MM/DD