

[MS-SCCSTR]: SqlClient Connection String Structure

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Errata below are for Protocol Document Version [V13.0 – 2018/03/16](#).

Errata Published*	Description								
2018/07/02	<p>In Section 1.6, Versioning and Localization, "TypeSystemVersion property" and "PacketSize property" were changed to "Type System Version key" and "Packet Size key", respectively.</p> <p>The text was changed from:</p> <p>The SqlClient connection string TypeSystemVersion property (see section 2.2) is used to indicate the type of system that is expected by the .NET Framework application.</p> <p>The SqlClient connection string PacketSize property (see section 2.2) is used to specify the packet size, in bytes, to use for the data exchange between a data source object and a database.</p> <p>Changed to</p> <p>The SqlClient connection string Type System Version key (see section 2.2) is used to indicate the type of system that is expected by the .NET Framework application.</p> <p>The SqlClient connection string Packet Size key (see section 2.2) is used to specify the packet size, in bytes, to use for the data exchange between a data source object and a database.</p>								
2018/07/02	<p>In the table in Section 2.2, Keys and Values, in the description of the Type System Version keyword, product behavior notes 19 and 20 were combined and rewritten to clarify the use of conversions and the value "Latest" and to remove duplicated content.</p> <p>Changed from:</p> <table border="1" data-bbox="516 1472 1414 1843"> <thead> <tr> <th data-bbox="516 1472 683 1518">Keyword</th> <th data-bbox="683 1472 1414 1518">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="516 1518 683 1570">...</td> <td data-bbox="683 1518 1414 1570">...</td> </tr> <tr> <td data-bbox="516 1570 683 1793">Type System Version</td> <td data-bbox="683 1570 1414 1793"> <p>A string value that indicates the type system that the .NET Framework application expects.<19></p> <p>When the value of this key is set to "Latest", the latest version that can be handled by the client-server pair MUST be used. This MUST automatically move forward as the client and server components are upgraded.<20></p> <p>The default value of this key is none.</p> </td> </tr> <tr> <td data-bbox="516 1793 683 1843">...</td> <td data-bbox="683 1793 1414 1843">...</td> </tr> </tbody> </table>	Keyword	Description	Type System Version	<p>A string value that indicates the type system that the .NET Framework application expects.<19></p> <p>When the value of this key is set to "Latest", the latest version that can be handled by the client-server pair MUST be used. This MUST automatically move forward as the client and server components are upgraded.<20></p> <p>The default value of this key is none.</p>
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	<p data-bbox="500 247 1065 275"><19> Section 2.2: The value is one of the following:</p> <ul data-bbox="500 298 1403 653" style="list-style-type: none"> <li data-bbox="500 298 1057 325">▪ Type System Version=SQL Server 2000 <li data-bbox="500 348 1057 375">▪ Type System Version=SQL Server 2005 <li data-bbox="500 399 1403 520">▪ Type System Version=SQL Server 2008 (Applicable to only the Microsoft .NET Framework 2.0 Service Pack 1 (SP1), .NET Framework 3.5, .NET Framework 4.0, .NET Framework 4.5, .NET Framework 4.6, and .NET Framework 4.7) <li data-bbox="500 543 1403 600">▪ Type System Version=SQL Server 2012 (Applicable to only the .NET Framework 4.5, .NET Framework 4.6, and .NET Framework 4.7) <li data-bbox="500 623 927 653">▪ Type System Version=Latest <p data-bbox="500 676 1403 732">When the value of the Type System Version key is set to "SQL Server 2000", SQL Server 2000 is used.</p> <p data-bbox="500 768 1362 825">The following conversions are performed when connecting to an instance of SQL Server other than SQL Server 2000:</p> <ul data-bbox="500 848 865 1035" style="list-style-type: none"> <li data-bbox="500 848 721 875">▪ XML to NTEXT <li data-bbox="500 898 784 926">▪ UDT to VARBINARY <li data-bbox="500 949 846 976">▪ VARCHAR(MAX) to TEXT <li data-bbox="500 999 865 1026">▪ NVARCHAR(MAX) to NEXT <p data-bbox="500 1062 1414 1136">When the value of this key is set to "SQL Server 2005", SQL Server 2005 is used. No conversions are made for the version of the .NET Framework that is running in the context of the application.</p> <p data-bbox="500 1178 1414 1308"><20> Section 2.2: SQL Server 2000, SQL Server 2005, SQL Server 2008, and SQL Server 2008 R2 require that the latest version that can be handled by the client-server pair be used when the Type System Version key has a value of "Latest" set. SQL Server 2012, SQL Server 2014, and SQL Server 2016 require that users provide the correct version number.</p> <p data-bbox="500 1350 634 1377">Changed to:</p> <table border="1" data-bbox="516 1413 1414 1791"> <thead> <tr> <th data-bbox="516 1413 683 1465">Keyword</th> <th data-bbox="683 1413 1414 1465">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="516 1465 683 1518">...</td> <td data-bbox="683 1465 1414 1518">...</td> </tr> <tr> <td data-bbox="516 1518 683 1738">Type System Version</td> <td data-bbox="683 1518 1414 1738"> <p data-bbox="695 1528 1330 1585">A string value that indicates the type system that the .NET Framework application expects.<19></p> <p data-bbox="695 1591 1390 1694">When the value of this key is set to "Latest", the latest version that can be handled by the client-server pair MUST be used. The value of this key MUST automatically move forward as the client and server components are upgraded.</p> <p data-bbox="695 1701 1094 1728">The default value of this key is none.</p> </td> </tr> <tr> <td data-bbox="516 1738 683 1791">...</td> <td data-bbox="683 1738 1414 1791">...</td> </tr> </tbody> </table> <p data-bbox="500 1833 1398 1860"><19> Section 2.2: In a Microsoft implementation, the value is one of the following:</p>	Keyword	Description	Type System Version	<p data-bbox="695 1528 1330 1585">A string value that indicates the type system that the .NET Framework application expects.<19></p> <p data-bbox="695 1591 1390 1694">When the value of this key is set to "Latest", the latest version that can be handled by the client-server pair MUST be used. The value of this key MUST automatically move forward as the client and server components are upgraded.</p> <p data-bbox="695 1701 1094 1728">The default value of this key is none.</p>
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	<ul style="list-style-type: none"> <li data-bbox="488 262 1031 294">▪ Type System Version=SQL Server 2000 <p data-bbox="548 315 1412 367">The following conversions are performed when connecting to an instance of SQL Server 2000:</p> <ul style="list-style-type: none"> <li data-bbox="548 388 771 420">▪ XML to NTEXT <li data-bbox="548 441 836 472">▪ UDT to VARBINARY <li data-bbox="548 493 893 525">▪ VARCHAR(MAX) to TEXT <li data-bbox="548 546 917 577">▪ NVARCHAR(MAX) to NEXT <ul style="list-style-type: none"> <li data-bbox="488 598 1031 630">▪ Type System Version=SQL Server 2005 <li data-bbox="488 651 1396 766">▪ Type System Version=SQL Server 2008 (Applicable to only the Microsoft .NET Framework 2.0 Service Pack 1 (SP1), .NET Framework 3.5, .NET Framework 4.0, .NET Framework 4.5, .NET Framework 4.6, and .NET Framework 4.7) <li data-bbox="488 787 1372 850">▪ Type System Version=SQL Server 2012 (Applicable to only the .NET Framework 4.5, .NET Framework 4.6, and .NET Framework 4.7) <li data-bbox="488 871 1404 934">▪ Type System Version=Latest (The value "Latest" is equivalent to "Type System Version=SQL Server 2008". "Latest" should not be used.) <p data-bbox="548 955 1404 1165">Because "Latest" defaults to SQL Server 2008, the applications that target SQL Server 2012, SQL Server 2014, SQL Server 2016, and SQL Server 2017 require that users provide the correct version number for the type compatibility that the .NET Framework application expects. For example, an application that runs against SQL Server 2008 and that targets SQL Server 2016 uses "Type System Version=SQL Server 2008".</p>

*Date format: YYYY/MM/DD