

SAP Crystal Reports, developer version for Microsoft Visual Studio - Supported Platforms



Applies to:

SAP Crystal Reports, developer version for Microsoft Visual Studio

Summary

This document contains information specific to platforms and configurations with regards to SAP Crystal Reports, developer version for Microsoft Visual Studio. For the latest information or updates to this document, please visit [this page](#).

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Applies to: Up to Support Package 32

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Products

- SAP Crystal Reports, developer version for Microsoft Visual Studio

Note: Maintenance dates for SAP Crystal Reports and its related products can be found on [this page](#).

Languages

The following table provides the list of languages supported by the release.

Note: “Design Time” refers to the Crystal Reports integration with Microsoft Visual Studio IDE. “Runtime” refers to the runtime components that can be deployed to client environments.

Languages	Design Time	Runtime
English	✓	✓
French	✓	✓
Italian	✓	✓
German	✓	✓
Korean	✓	✓
Japanese	✓	✓
Spanish	✓	✓
Russian	✓	✓
Chinese (Traditional)	✓	✓
Chinese (Simplified)	✓	✓
Portuguese (Brazil)		✓
Swedish		✓
Polish		✓

Norwegian		✓
Thai		✓
Dutch		✓
Danish		✓
Czech		✓
Finnish		✓
Hungarian		✓
Slovakian		✓
Turkish		✓

Supported Operating Systems ¹

The following operating systems shall be supported for both design time and runtime scenarios. Each operating system shall be supported in both 32-bit (x86) and 64-bit (x64) versions, if available.

- Windows 8.1 ³
- Windows 10 ⁶
- Windows 11 ⁷
- Windows Server 2012 ²
- Windows Server 2012 R2 ³
- Windows Server 2016 ⁴
- Windows Server 2019 ⁵

Note:

1. Support of a Windows version ends at its official End of Life (EOL) date from Microsoft. E.g. **Windows XP** is no longer supported after April 8, 2014, **Windows Vista Service Pack 2** is no longer supported after April 11, 2017, **Windows 8** is no longer supported after January 12, 2016, and **Windows Server 2003 Service Pack 2** is no longer supported after July 14, 2015, **Windows 7** and **Windows Server 2008 (and 2008 R2)** are no longer supported after Jan 14, 2020. See [Microsoft Support Life Cycle Site](#) for EOL dates of each Windows version.
2. Supported since SAP Crystal Reports, developer version for Microsoft Visual Studio (a.k.a. CR4VS) SP5.
3. Supported since CR4VS SP8.
4. Supported since CR4VS SP19.
5. Supported since CR4VS SP26.
6. CR4VS SP32 is tested with Windows10 21H2, CR4VS SP31 is tested with Windows10 20H2.
7. CR4VS SP32 is tested with Windows11 21H2. Check Knowledge Base Article [3204578](#) for a Windows 11 specific OLE image issue and workaround.

Minimum Hardware Requirements

- Crystal Reports for Visual Studio is supported running on 32-bit versions of Windows running on x86 and x64 CPUs made by AMD and Intel.
- Crystal Reports for Visual Studio is supported running on 64-bit versions of Windows running on x64 CPUs made by AMD and Intel.

Design Time

- 1.6Ghz or faster processor,
- 1 GB (32 Bit) or 2 GB (64 Bit) RAM,
- 650MB (32-bit) or 1.1GB (64-bit) available hard drive space

Runtime

- Intel Pentium III or faster processor,
- 512 MB RAM,
- 300MB (32-bit) or 325MB (64-bit) available hard drive space

Crystal Reports for Visual Studio and Microsoft Critical Patches

SAP supports and recommends install of all Microsoft critical patches for the operating systems listed above. It is recommended to refer to the Business Objects policy on Microsoft patch support, which can be found on our [support site](#).

Supported Application Servers

- IIS 8 on Windows Server 2012²
- IIS 8.5 on Windows 8.1³
- IIS 8.5 on Windows Server 2012 R2³
- IIS 10 on Windows 10⁴
- IIS 10 on Windows 11⁷
- IIS 10 on Windows Server 2016⁵
- IIS 10 on Windows Server 2019⁶
- IIS Express³

Note:

1. Windows client operating systems (ie: Windows 8.1/10) are intended to be used as development and test environments and not as production servers.
2. Supported since SAP Crystal Reports, developer version for Microsoft Visual Studio SP5.
3. Supported since SAP Crystal Reports, developer version for Microsoft Visual Studio SP8.
4. Supported since SAP Crystal Reports, developer version for Microsoft Visual Studio SP16.
5. Supported since SAP Crystal Reports, developer version for Microsoft Visual Studio SP19.
6. Supported since SAP Crystal Reports, developer version for Microsoft Visual Studio SP26.
7. Supported since SAP Crystal Reports, developer version for Microsoft Visual Studio SP32.

Supported Browsers

- Microsoft Edge (Chromium)
- Google Chrome¹
- Firefox ESR 91²

- Safari 11
- Internet Explorer 11³

Note:

1. The current version of Google Chrome is supported based on testing with earlier versions of Chrome during development. Although SAP will work to maintain compatibility with Google Chrome, please be aware that compatibility issues may be introduced if and when Google makes significant changes to Chrome between rapid-releases
2. For more information about Firefox Extended Support Releases: <http://www.mozilla.org/en-US/firefox/organizations/faq>
3. Will be deprecated soon

Supported Database Connectivity

32-bit/64-bit Data Source Support

SAP BusinessObjects products that are compiled as 32-bit native binary are designed to use 32-bit data source connectivity. Conversely, native 64-bit offerings of SAP BusinessObjects products are designed to exclusively use 64-bit data source connectivity.

Interoperability combinations between 32-bit / 64-bit releases of database client / server will be supported, so long as vendor compatibility between client middleware and server is guaranteed.

ODBC DSN Support

To administer 32-bit ODBC DSNs on 64-bit versions of Windows, run the 32-bit ODBC Administrator, located here: C:\Windows\SysWOW64\odbcad32.exe (%windir%\SysWOW64\odbcad32.exe).

To administer 64-bit ODBC DSNs on 64-bit versions of Windows, load the ODBC Administrator from the Control Panel on a 64-bit version of Windows, it, or run the ODBC Administrator, located here: C:\Windows\System32\odbcad32.exe (%windir%\system32\odbcad32.exe).

Data Source Connectivity

Name	Provider	32-bit ¹	64-bit ¹	Unicode Support	Comment
Generic ODBC Sources ²	ODBC	Yes	Yes	Yes	
Generic OLEDB Sources ²	OLEDB	Yes	Yes	Yes	
ADO.NET	Microsoft .NET Framework 4.5.2	Yes	Yes	Yes	
	Microsoft .NET Framework 4.6 ³	Yes	Yes	Yes	
	Microsoft .NET Framework 4.7 ³	Yes	Yes	Yes	
	Microsoft .NET Framework 4.8 ³	Yes	Yes	Yes	
Crystal Data Objects ⁴	N/A	Yes	No		

COM Provider	N/A	Yes	No	Yes	
Microsoft Access 2013	Microsoft Access Driver (*.mdb, *.accdb), version 15.00.4420.1017	Yes	Yes	Yes	SP7+
	Microsoft Office 15.0 Access Database Engine OLE DB Provider	Yes	Yes	Yes	SP7+
Microsoft Access 2016	Microsoft Access Driver (*.mdb, *.accdb), version 16.00.4266.1001	Yes	Yes	Yes	SP17+
	Microsoft Office 16.0 Access Database Engine OLE DB Provider	Yes	Yes	Yes	SP17+
Microsoft Access 2019	Microsoft Access Driver (*.mdb, *.accdb), version 16.00.4266.1001	Yes	Yes	Yes	SP26+
	Microsoft Office 16.0 Access Database Engine OLE DB Provider	Yes	Yes	Yes	SP26+
Microsoft Excel 2013	Microsoft Excel Driver (*.xls, *.xlsx, *.xlsm, *.xlsb), version 15.00.4420.1017	Yes	Yes	Yes	SP7+
	Microsoft Office 15.0 Access Database Engine OLE DB Provider	Yes	Yes	Yes	SP7+
Microsoft Excel 2016	Microsoft Excel Driver (*.xls, *.xlsx, *.xlsm, *.xlsb), version 16.00.4266.1001	Yes	Yes	Yes	SP17+
	Microsoft Office 16.0 Access Database Engine OLE DB Provider	Yes	Yes	Yes	SP17+
Microsoft Excel 2019	Microsoft Excel Driver (*.xls, *.xlsx, *.xlsm, *.xlsb), version 16.00.4266.1001	Yes	Yes	Yes	SP26+
	Microsoft Office 16.0 Access Database Engine OLE DB Provider	Yes	Yes	Yes	SP26+
Microsoft SQL Server 2012	Microsoft ODBC MDAC 2.8	Yes	Yes	Yes	SP5+
	Microsoft OLEDB MDAC 2.8	Yes	Yes	Yes	SP5+
	SQL Server Native Client 11	Yes	Yes	Yes	SP5+
Microsoft SQL Server 2014	SQL Server ODBC Native Client 11 (SQLNCLI11.DLL)	Yes	Yes	Yes	SP10+

	ODBC driver 11 for SQL Server (MSODBCSQL11.DLL)	Yes	Yes	Yes	SP10+
Microsoft SQL Server 2016	SQL Server ODBC Native Client 11 (SQLNCLI11.DLL)	Yes	Yes	Yes	SP18+
	Microsoft ODBC driver 13 for SQL Server (MSODBCSQL13.DLL)	Yes	Yes	Yes	SP18+
Microsoft SQL Server 2017	Microsoft ODBC driver 13 for SQL Server (MSODBCSQL13.DLL)	Yes	Yes	Yes	SP23+
	Microsoft ODBC driver 17 for SQL Server (MSODBCSQL17.DLL)	Yes	Yes	Yes	SP24+
	Microsoft OLE DB Driver 18 for SQL Server (MSOLEDBSQL.DLL)	Yes	Yes	Yes	SP23+
Microsoft SQL Server 2019	Microsoft ODBC driver 17 for SQL Server (MSODBCSQL17.DLL)	Yes	Yes	Yes	SP27+
	Microsoft OLE DB Driver 18 for SQL Server (MSOLEDBSQL.DLL)	Yes	Yes	Yes	SP27+
Oracle 11gR2	Oracle Native Client 11.2	Yes	Yes	Yes	
	ODBC Oracle 11.2	Yes	Yes	Yes	
	OLEDB Oracle 11.2	Yes	Yes	Yes	
Oracle 12c	Oracle Native Client 12.1	Yes	Yes	Yes	SP9+
	ODBC Oracle 12.1	Yes	Yes	Yes	SP9+
	OLEDB Oracle 12.1	Yes	Yes	Yes	SP9+
Oracle 12c R2	Oracle Native Client 12.2	Yes	Yes	Yes	SP21+
	ODBC Oracle 12.2	Yes	Yes	Yes	SP21+
	OLEDB Oracle 12.2	Yes	Yes	Yes	SP21+
Oracle 18c	Oracle Native Client 18	Yes	Yes	Yes	SP24+
	ODBC Oracle 18	Yes	Yes	Yes	SP24+
	OLEDB Oracle 18	Yes	Yes	Yes	SP24+

Oracle 19c	Oracle Native Client 19	Yes	Yes	Yes	SP26+
	ODBC Oracle 19	Yes	Yes	Yes	SP26+
	OLEDB Oracle 19	Yes	Yes	Yes	SP26+
SAP HANA	HANA ODBC 1.0	Yes	Yes	Yes	SP9+
	HANA ODBC 2.0	Yes	Yes	Yes	SP20+
SAP HANA Cloud	HANA Cloud 1.0	Yes	Yes	Yes	SP31+
SAP Sybase IQ 16	Sybase ODBC for Sybase IQ 16	Yes	Yes	Yes	SP7+
SAP Sybase SQL Anywhere (ASA) 16	SQL Anywhere ODBC Driver 16	Yes	Yes	Yes	SP7+
SAP Sybase SQL Anywhere (ASA) 17	SQL Anywhere ODBC Driver 17	Yes	Yes	Yes	SP18+
SAP Sybase Adaptive Server Enterprise (ASE) 16	ASE ODBC driver 16.0 ⁵	Yes	Yes	Yes	SP11+
Field Definitions ⁴	N/A	Yes	No	Yes	
File System	N/A	Yes	No	Yes	
Text	ODBC	Yes	No	Yes	
XML and Web Service ⁶	CRDB XML driver	Yes	Yes	Yes	SP9+

(1) 32-bit and 64-bit refers to the use of the SAP Crystal Reports for .NET runtime versions and does not refer to the database/technology vendor.

(2) Generic ODBC and OLEDB: Limitation:

- Database server, Client and ODBC/OLEDB driver used must support multiple threads.
- Generic ODBC: 3rd Party ODBC Level 2-compliant Drivers may potentially have issues as not all combinations have been tested, but are supported as a general rule.

(3) And subsequent support packages

(4) The data source connectivity is deprecated and will be discontinued in a future release.

(5) Use SDK FOR SAP ASE 16.0 PL02 or higher version

(6) Require Oracle JDK 8/11 or OpenJDK, OpenJDK tested since SP29

Supported Visual Studio Versions^{1,2}

- Microsoft Visual Studio 2012 (Professional, Premium, and Ultimate)³

- Microsoft Visual Studio 2013 (Community, Professional, Premium, and Ultimate)³
- Microsoft Visual Studio 2015 (Community, Professional, Enterprise)⁴
- Microsoft Visual Studio 2017 (Community, Professional, Enterprise)⁵
- Microsoft Visual Studio 2019 (Community, Professional, Enterprise)⁶
- Microsoft Visual Studio 2022 (Community, Professional, Enterprise)⁷

Note:

1. Crystal Reports Designer (e.g. Crystal Reports 2020) will not integrate with Microsoft Visual Studio 2010 and above versions. However, the Crystal Reports Designer can be used to design reports (.rpt files) that are compatible with SAP Crystal Reports, developer version for Microsoft Visual Studio.
2. VS2010 is already out of support. Upcoming end of support dates according to [this Microsoft page](#), **VS2012**: Jan 2023, **VS2013**: April 2024, **VS2015**: Oct 2025.
3. VS2012 supported since SAP Crystal Reports, developer version for Microsoft Visual Studio SP5. VS2013 supported since SAP Crystal Reports, developer version for Microsoft Visual Studio SP9.
4. VS2015 supported since SAP Crystal Reports, developer version for Microsoft Visual Studio SP15.
5. VS2017 supported since SAP Crystal Reports, developer version for Microsoft Visual Studio SP21.
6. VS2019 supported since SAP Crystal Reports, developer version for Microsoft Visual Studio SP25.
7. VS2022 (64bit) supported since SAP Crystal Reports, developer version for Microsoft Visual Studio SP32.

Supported .NET Framework Versions

- .NET Framework 4.5.2³
- .NET Framework 4.6 (including Service Packs)⁴
- .NET Framework 4.7 (including Service Packs)⁵
- .NET Framework 4.8 (including Service Packs)⁶

Note:

1. Microsoft .NET Framework Lifecycle policy can be found [here](#).
2. Visual Studio supports targeting multiple versions of the .NET Framework. The SAP Crystal Reports, developer version for Microsoft Visual Studio components also support this in that customers can build applications using Crystal Reports on the 4.5.2, 4.6, 4.7 .NET Frameworks.
3. Supported since SAP Crystal Reports, developer version for Microsoft Visual Studio SP9.
4. Supported since SAP Crystal Reports, developer version for Microsoft Visual Studio SP15.
5. Supported since SAP Crystal Reports, developer version for Microsoft Visual Studio SP21.
6. Supported since SAP Crystal Reports, developer version for Microsoft Visual Studio SP26.
7. **.NET Framework 3.5 SP1 no longer supported** since SAP Crystal Reports, developer version for Microsoft Visual Studio SP26.

Related Content

- [Updates & Runtime Downloads](#)
- [Overview wiki of recent Support Packages](#)
- [SAP Crystal Reports for Visual Studio Community](#)

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