

# SAP Crystal Reports Server 2016, OEM Edition

## Supported Platforms (PAM)

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# SAP Crystal Reports Server 2016, OEM Edition PAM

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## Operating System

	<i>Windows Server</i>			
	Server 2012	Server 2012 R2	Server 2016	Server 2019
SAP Crystal Reports Server 2016, OEM edition	✓	✓	SP03+	SP07+

SAP Crystal Reports Server 2016, OEM Edition is 32-bit and can be used in both 32-bit and 64-bit operation system, unless noted otherwise

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## Language Support

**UI:** The user interface is localized into the languages listed below.

**Data:** Data stored in Unicode format can be accessed and displayed in all products and is not restricted to the languages below.

	English	French	German	Japanese	Spanish	S Chinese	Italian	Dutch	Russian	Korean	T Chinese	Portuguese	Swedish	Polish	Danish	Norwegian	Finnish	Thai	Czech	Hungarian	Slovakian	Turkish	Romanian	Slovenian	Arabic (***)	Hebrew(***)	Ukrainian(***)	Kazakh(***)
SAP Crystal Reports Server 2016, OEM edition	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	SP03+	SP03+

(\*\*\*) Only supported in Crystal Reports DHTML Viewer, when using Internet Explorer and Firefox

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## Browser Support

Web Browser	Java	Windows Server				Windows Desktop		Mac OS
		Server 2012	Server 2012 R2	Server 2016	Server 2019	Windows 8.1	Windows 10	Mac OS X
Google Chrome	Oracle JRE 7, 8	✓	✓	SP04+	SP08+	✓	✓	-
Microsoft Edge Chromium	Oracle JRE 7, 8	✓	✓	SP04+	SP08+	✓	✓	
Microsoft IE 11	Oracle JRE 7, 8	✓	✓	SP04+	SP08+	✓	✓	
Mozilla Firefox ESR 78.x	Oracle JRE 7, 8	✓	✓	SP04+	SP08+	✓	✓	
Safari 12	Oracle JRE 7, 8	-	-	-	-	-	-	SP07+
Safari 13	Oracle JRE 7, 8	-	-	-	-	-	-	SP08+

- Only 32-bit browsers are supported, except for Safari on OS X, which is only available as a 64-bit browser. In the case of IE11, this means “Enhanced Protected Mode” (64-bit content processes) is not supported; the IE 11 application itself (the “Manager” process) is always 64-bit on 64-bit systems and this is supported.
- Touch screen interactions are not supported.
- For more information about Firefox Extended Support Releases (ESR): <http://www.mozilla.org/en-US/firefox/organizations/faq/>
- 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 issues may be introduced if and when Google makes significant changes to Chrome between rapid-releases.
- Crystal Reports Java Applet viewer will be deprecated soon, also note it will not launch in Chrome version 45 onwards due to removal of NPAPI support in Chrome. Use the Crystal Reports DHTML (“Web”) viewer instead.

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## Java Application Server Support

Application Server	Version	Java Version	
SAP NetWeaver Java Application Server <sup>(*1)</sup>	7.50 SP3+	SAP JVM 6.1, SAP JVM 8	SP03+
Apache Tomcat	7.0	Java 7, Java 8, SAP JVM 8	✓
	8.0	Java 7, Java 8, SAP JVM 8	✓
	8.5	Java 7, Java 8, SAP JVM 8	SP04+
	9.0	Java 7, Java 8, SAP JVM 8	SP05+
Oracle WebLogic Server	10.3.6	Java 7	✓
		JRockit 6.0	✓
IBM WebSphere Application Server <sup>(*2)</sup>	8.5.5 <sup>(*3)</sup> <sup>(*4)</sup>	Java 7	✓
	9.0	Java 8	SP05+
	Liberty 20	Java 8	SP09+
JBoss EAP	6.4	Java 8	✓
	7.0	Java 8	SP04+
	7.1	Java 8	SP06+
	7.2	Java 8	SP08+
	7.3	Java 8	SP09+

Only Java Application Server utilizing 64-bit JDK's are supported

(\*1) SAP NetWeaver is supported with SAP JVM on all supported operating systems

(\*2) IBM WebSphere is supported with IBM Java SDK when applicable

(\*3) Support for the WebSphere On Demand Router is described in [SAP Note 1869511](#).

(\*4) The WAS Liberty Profile is not supported.

Note: Any HTTP server supported by the application server vendor can be used with the supported application server

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## IIS Support

Application Server	Version	Windows Server 2012	Windows Server 2012 R2	Windows Server 2016
IIS	8	✓	-	-
	8.5	-	✓	-
	10	-	-	✓



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## Other Technology Support

		Windows
Technology	Technology Version	
Adobe Acrobat Reader DC	Current (*1)	✓
Microsoft Office (*2) (*3)	Microsoft Office 2013	✓
	Microsoft Office 2016	SP03+
	Microsoft Office 2019	SP08+
	Office 365 (*3)	✓
Microsoft .NET Framework	.NET Framework 4.5.2	✓
	.NET Framework 4.6.x	✓
	.NET Framework 4.7.x	SP06+
	.NET Framework 4.8.x	SP08+

- (\*1) The current version of Acrobat Reader DC is supported based on testing with earlier versions during development. Although SAP will work to maintain compatibility with Acrobat Reader DC, please be aware that issues may be introduced if and when Adobe makes significant changes.
- (\*2) SPs of Microsoft Office that are higher than the minimum listed SPs are supported by reference
- (\*3) No support for integrating with Office 365 cloud offerings as such. Office 365 support is only for the version of Microsoft Office being supported.
- (\*4) Flash no longer supported since Dec 31, 2020



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## Virtualization Technology Support

### Server Virtualization

Refer to the [SAP Note 1492000](#) for the general statement on virtualization technology support, and related notes for virtualization support on operating systems supported in this release

### Desktop Virtualization

Refer to the table below:

		Support
Desktop Virtualization		
Citrix	XenApp 6.0 and 6.5 <sup>(*1)</sup> [Windows Server 2008 R2]	✓
	XenApp 7.5 [Windows Server 2012 R2]	✓
	XenApp 7.6 [Windows Server 2012 R2]	SP03+
	XenApp 7.11 <sup>(*1)</sup> and 7.12 [Windows Server 2016]	SP03+
Microsoft	Remote Desktop Services	✓
	Hyper V	SAP Note 1492000
Remote Desktop Protocol (RDP) Connectivity	FreeRDP, Rdesktop [SUSE SLES v11, RHEL v7.2+]	SP04+
	Cendio Thinlinc [Windows Server 2012 R2, SUSE SLES v11]	SP05+

- (\*1) XenApp 6.5 is supported by reference to XenApp 6.0
- (\*2) XenApp 7.11 is supported by reference to XenApp 7.12

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## Cloud Infrastructure Support

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SAP Crystal Reports Server 2016, OEM Edition can be deployed on cloud infrastructure for productive and non-productive purposes.

The following cloud infrastructure offerings are certified for deployment:

Cloud Infrastructure Offering	Additional Notes (for supported combinations, client/server components)
SAP HANA Enterprise Cloud (HEC)	Support via HEC Solution Portfolio List
Amazon Web Services (AWS)	<a href="#">SAP Note 1656099</a>
Microsoft Azure Cloud	<a href="#">SAP Note 2145537</a>
IBM SoftLayer Cloud	<a href="#">SAP Note 2279688</a>
Alibaba Cloud (JuShiTa variant)	<a href="#">SAP Note 2314398</a>
Alibaba Cloud	<a href="#">SAP Note 2688086</a>
Google Cloud Platform (Compute Engine)	<a href="#">SAP Note 2538880</a>
Oracle Cloud	<a href="#">SAP Note 2650732</a>

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## Data Access

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**Please consult the file:**

### **CRSE 2016 Data Access**

**Notes:**

- Crystal Reports 2016 is offered as a 32-bit native binary. It requires 32-bit data source middleware connectivity on all operating systems.
- Crystal Reports 2016 uses the 32-bit ODBC registry on all versions of Windows. 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

# Appendix

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## Minimum HW - Windows

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### Minimum Screen Resolution

Screen resolution of [1024] x [768] is recommended

### Minimum Server Hardware Requirements

#### For Evaluation Purposes:

CPU performance of at least 4000 SAPS

4 GB RAM minimum

3 GB Disk Space minimum

#### For Deployment:

Please refer to the [BI4 Sizing Companion Guide](#), located at [www.sap.com/bisizing](http://www.sap.com/bisizing) and also your SAP representative.

- For more information on SAPS, see the SAP Sizing portal: <http://service.sap.com/sizing> and also the SAP benchmarked vendor hardware list: <http://www1.sap.com/solutions/benchmark/sd2tier.epx>
- If deploying to virtualized hardware, it is strongly recommended that the memory and CPU(s) be reserved for each virtual machine that is running the BI services.

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