

SAP Crystal Solutions
SAP Crystal Reports and SAP Crystal Server

Comparison of Features by Version For SAP® Crystal Reports® and SAP Crystal Server Software





DELIVER THE POWER OF INFORMATION WITH SAP CRYSTAL REPORTS

SAP Crystal Reports 2020 continues the tradition of reporting excellence and innovation. SAP Crystal Reports provides end users with reports that include stunning visualizations, business modeling and instant decision making insights while reducing the dependency on IT and developers. Whether you are a business user, an IT professional, a report designer, or an application developer, SAP Crystal Reports delivers richly formatted, actionable data for informed decision making through any application, and any device.

The comparison matrix in Table 1 provides a checklist of features in current and previous versions of SAP Crystal Reports.

TAP INTO YOUR DATA SOURCES

SAP Crystal Reports connects to almost any data source – including online analytical processing (OLAP), XML data, as well as relational databases, OLAP cubes, spreadsheets, log files, and applications. You can always use SAP Crystal Reports to access them.

SAP Crystal Reports also supports Unicode, which facilitates report creation with data stored in virtually any language. For developers, access to user-defined or application in-memory data is available through Plain Old Java Objects (POJOs) and ADO.NET.

For information about supported platforms and data sources, please visit:

<https://www.crystalreports.com/documents>

GET AFFORDABLE, ENTRY-LEVEL BUSINESS INTELLIGENCE WITH SAP CRYSTAL SERVER

Get easy, self-serve information access to reports, dashboards, and search and exploration documents – without causing IT bottlenecks. An affordable, entry-level business intelligence (BI) solution, SAP Crystal Server delivers secure, personalized information sharing through a single semantic layer and server. Its fast, modular deployment options fit mixed IT, business, and development environments.

Managed access to BI documents can be combined with business processes through office documents or portals, such as Microsoft Office and Microsoft SharePoint, or integrated into applications programmatically through comprehensive software developer kits (SDKs).





SAP Crystal Server includes SAP Crystal Reports for Enterprise software, a Java-based report design tool that accesses data from the SAP BusinessObjects™ BI Semantic Layer Java SDK.

ACCESS ONLINE DOCUMENTATION AND TECHNICAL REFERENCES

Access online documentation, forums, downloads, and more from:

<https://www.crystalreports.com/resources>

The comparison matrix in Table 2 provides a checklist of features supported in current and previous versions of SAP Crystal Server.

Table 1: SAP® Crystal Reports® Software Comparison Matrix

High-Productivity Report Creation Features	2020	2016	2013	2011	2008	SAP Crystal Reports for Enterprise*	Version for Visual Studio	Version for Eclipse	XI R2
Wizards and experts for report creation	x	x	x	x	x	x	x	x	D,P,S
Database expert for graphical table linking	x	x	x	x	x	x	x	x	D,P,S
Field explorer to manage report fields	x	x	x	x	x	x	x	x	D,P,S
Drill down in runtime	x	x	x	x	x	x	x	x	D,P,S
Autosave	x	x	x	x	x	x			D,P,S
Editable preview window	x	x	x	x	x	x		x	D,P,S
Browse field data	x	x	x	x	x	x	x	x	D,P,S
Move, resize, and multiselect objects	x	x	x	x	x	x	x	x	D,P,S
Custom templates	x	x	x	x	x	x			D,P,S
Repository for component reuse	x	x	x	x	x	x			D,P
Workbench tool for managing projects	x	x	x	x	x	x			D,P,S
Automatic patch notification and installation					x	x		x	D,P,S
Start page to stay connected with latest information	x	x	x	x	x	x		x	D,P,S
HTML preview	x	x	x	x	x	x	x	x	D,P
Extension points for custom wizards, toolbar, buttons, and designer events								x	
Extension points for toolbar buttons	x	x	x	x	x	x			
Multilingual report design and view	x	x	x	x	x	x			
Dual monitor support	x	x	x	x	x	x	x	x	
Freehand SQL command object to optimize relational queries	x	x	x	x	x	x			
Verify database options	x	x	x	x	x	x			
New range based functions	x	x							

Developer (D), Professional (P), Standard (S)

* Feature of SAP Crystal Reports for Enterprise software, the report design tool included with SAP Crystal Server 2020. This tool requires an SAP Crystal Reports 2020 key code. Crystal Server 2020 1 NUL includes a Crystal Reports 2020 license code and the software for Crystal Reports for Enterprise.



	2020	2016	2013	2011	2008	SAP Crystal Reports for Enter- prise*	Version for Visual Studio	Version for Eclipse	XI R2
Comprehensive Formatting and Design Control Features									
Cross-tab objects	X	X	X	X	X	X	X	X	D,P,S
Subreport objects	X	X	X	X	X	X	X	X	D,P,S
Save subreport as stand-alone report	X	X	X	X	X	X	X		D,P,S
Text objects	X	X	X	X	X	X	X	X	D,P,S
Line and box objects	X	X	X	X	X	X	X	X	D,P,S
Multipass reporting with powerful grouping and sorting	X	X	X	X	X	X	X	X	D,P,S
Top-n and bottom-n sorting	X	X	X	X	X	X	X	X	D,P,S
Sorting on groups and detail records	X	X	X	X	X	X	X	X	D,P,S
Hierarchical grouping	X	X	X	X	X	X	X	X	D,P,S
Custom (named) grouping	X	X	X	X	X	X	X	X	D,P,S
Conditional font and text formatting	X	X	X	X	X	X	X	X	D,P,S
Formula control of formatting	X	X	X	X	X	X	X	X	D,P,S
Text rotation	X	X	X	X	X	X	X	X	D,P,S
Integrated charting	X	X	X	X	X	X	X	X	D,P,S
Chart on subtotals, group details, and formulas	X	X	X	X	X	X	X	X	D,P,S
BLOB bitmap support	X	X	X	X	X	X	X	X	D,P,S
Graphic image support for BMP, TIFF*, JPEG, PNG, PCX, TGA, and PICT formats	X	X	X	X	X	X	X	X	D,P,S
BASIC-like syntax in formula language	X	X	X	X	X	X	X		D,P,S
Hierarchical group summary	X	X	X	X	X	X	X		D,P,S
Support for Unicode data and text	X	X	X	X	X	X	X	X	D,P,S
Display string formatting	X	X	X	X	X	X	X	X	D,P,S
Support for vector-based images	X	X	X	X	X	X	X	X	D,P,S
Formula workshop for building formulas	X	X	X	X	X	X	X	X	D,P,S
Custom functions to reuse logic	X	X	X	X	X	X	X	X	D,P,S
Define report parts for portal integration	X	X	X	X	X	X			D,P,S
Format painter to reuse formatting	X	X	X	X	X	X	X	X	D,P,S
Horizontal page numbers	X	X	X	X	X	X	X	X	D,P,S
Parameterized n value for top-n style reports	X	X	X	X	X	X	X		D,P,S
Drag-and-drop charting and cross-tabs	X	X	X	X	X	X		X	D,P,S
Dynamic image location	X	X	X	X	X	X	X	X	D,P,S
Save export options within the report	X	X	X	X	X	X			D,P,S
Add XSLT transform to XML export	X	X	X	X	X	X			
Flash objects		X	X	X	X	X		Runtime	Runtime
Cross-tab calculated members for custom rows and columns	X	X	X	X	X	X			
Insert blank lines in cross-tabs	X	X	X	X	X	X			
Change parameters without refreshing data	X	X	X	X	X	X	X	X	
Page break after n-detail records	X	X	X	X	X	X	X	Runtime	
Page size measured in pixels	X	X	X	X	X	X	X	Runtime	
Formula-driven page margins	X	X	X	X	X	X	X	Runtime	
Portrait or landscape orientation by section	X	X	X	X	X	X	X	Runtime	
Optional parameters	X	X	X	X	X	X	X	Runtime	
Built-in bar-code support	X	X	X	X	X	X	Runtime	Runtime	
Vertical alignment of text within cell	X	X							

*TIFF support not included with Crystal Reports 2016 or Crystal Reports 2020

	2020	2016	2013	2011	2008	SAP Crystal Reports for Enter- prise*	Version for Visual Studio	Version for Eclipse	XI R2
Interactive Analysis Tools									
Smart navigation: group tree, drill down, and search	X	X	X	X	X	X	X	X	D,P,S
Geographic maps	X	X	X	X	X				D,P,S
Customizable cross-tabs	X	X	X	X	X	X	X	X	D,P,S
Report alerts	X	X	X	X	X	X			D,P,S
Integrated analyzer for charts	X	X	X	X	X	X			D,P,S
Conditional formatting on charts	X	X	X	X	X	X			D,P,S
Drill-down-level functionality	X	X	X	X	X	X	X	X	D,P,S
On-report sort controls for interactive sorting	X	X	X	X	X	X	X	Runtime	
Parameter panel for interactive filtering and formatting	X	X	X	X	X	X	Runtime	Runtime	
Adobe Flash integration (embed SWF objects)		X	X	X	X	X	Runtime	Runtime	

* Feature of SAP Crystal Reports for Enterprise software, the report design tool included with SAP Crystal Server. This tool requires an SAP Crystal Reports 2020 key code. Crystal Server 2020 1 NUL includes a Crystal Reports 2020 license code and the software for Crystal Reports for Enterprise.



	2020	2016	2013	2011	2008	SAP Crystal Reports for Enter- prise*	Version for Visual Studio	Version for Eclipse	XI R2
Viewers									
Java applet viewer		x	x	x	x			x	D
ActiveX viewer		x	x	x	x				D
WPF viewer	X	x	x	x			x		
DHTML viewer	x	x	x	x	x	x		x	D
.NET WinForm viewer	x	x	x	x	x		x		D
.NET WebForm viewer	x	x	x	x	x		x		D
Report parts viewer for portal integration	x	x	x	x	x		x	x	D
Advanced viewer to search report and export results									D,P
Grid viewer									D
Mobile report parts viewer									D

	2020	2016	2013	2011	2008	SAP Crystal Reports for Enter- prise*	Version for Visual Studio	Version for Eclipse	XI R2
Exports Supported in Viewers									
Export to Microsoft Excel (XLS)	x	x	x	x	x	x	x	x	D,P,S
Export to Microsoft Excel (XLS data only)	x	x	x	x	x	x	x	x	D,P,S
Export to Microsoft Workbook (XLSX)	x					x	x		
Export to Microsoft Workbook (XLSX data only)	x	x	x	x		x	x		
Export to Microsoft Word (RTF)	x	x	x	x	x	x	x	x	D,P,S
Export to PDF	x	x	x	x	x	x	x	x	D,P,S
Export to Microsoft Word (editable RTF)	x	x	x	x	x	x	x	x	D,P,S
Export to XML with optional XSLT transform	x	x	x	x	x	x	x		
Export to character-separated values (CSV)	x	x	x	x	x	X	x		
Export to Crystal Reports (.rpt)	x	x	x	x	x	x	x	x	
Export to read-only Crystal Reports (.rptr)	x	x	x	x		x	x	x	
Export to Word (.doc)	x	x	x	x	x		x	x	
Export to Tab Separated Text	x	x	x	x	x	x	x	x	
Export to Text	x	x	x	x	x	x	x	x	

	2020	2016	2013	2011	2008	SAP Crystal Reports for Enter- prise*	Version for Visual Studio	Version for Eclipse	XI R2
Viewer Features									
Parameter prompts in Web viewers	x	x	x	x	x	x	x	x	D,P
Local printing and export	x	x	x	x	x	x	x	x	D,P
Page on demand	x	x	x	x	x	x	x	x	D,P
Customizable report viewer settings	x	x	x	x	x	x	x	x	D
Dynamic and cascading prompts	x ¹	x	x	x	D,P				
Parameter panel for interactive filtering and formatting	x ^{1,2}	x	x	x					
Support for long lists of values in a parameter prompt	x ¹	x	x	x					
Drill down creates new tabs	x ³	x ³	x ³	x ³	x	x ³	x	x	
On-report sort controls for interactive sorting	x ²	x	x	x					
Custom zoom factor	x ¹	x	x	x					
Render cross-tabs as DHTML tables for improved accessibility	x ⁴	x	x	x					
Open read-only RPT (RPTR) files in viewers	x	x	x	x			x		
HTML viewers support right-to-left locales (mirrored interface, right-to-left Arabic, bidirectional text support in single report)	x	x	x			x			
Freeze panel	x ⁴					x			

1. Not available with Java applet viewer

2. Not available with ActiveX viewer

3. DHTML viewer drill down will show as breadcrumb style

4. DHTML viewer only

* Feature of SAP Crystal Reports for Enterprise software, the report design tool included with SAP Crystal Server. This tool requires an SAP Crystal Reports 2020 key code. Crystal Server 2020 1 NUL includes a Crystal Reports 2020 license code and the software for Crystal Reports for Enterprise.



	2020	2016	2013	2011	2008	SAP Crystal Reports for Enter- prise*	Version for Visual Studio	Version for Eclipse	XI R2
Report Viewing in the Report Designer									
Drill down in runtime preview window	x	x	x	x	x	x	x		D
Search panel	x	x	x	x	x	x			
Export to DHTML (HTML 4.0; Designer only)	x	x	x	x	x	x	x		D,P,S
Export to Microsoft Excel (XLS)	x	x	x	x	x	x	x	x	D,P,S
Export to Microsoft Excel (XLS data only)	x	x	x	x	x	x	x	x	D,P,S
Export to Microsoft Workbook (XSLX)	x					x	x		
Export to Microsoft Workbook (XSLX data only)	x	x	x	x		x	x		
Export to Microsoft Word (RTF)	x	x	x	x	x	x	x	x	D,P,S
Export to comma-separated values (CSV), paginated text, record style (columns of values), report definition, and tab-separated text and values	x	x	x	x	x	x	x	x	D,P,S
Export to disk	x	x	x	x	x	x	x		D,P,S
Export to application	x	x	x	x	x	x			D,P,S
Export to ODBC databases	x	x	x	x	x		x		D,P,S
Export to Microsoft Exchange	x	x	x	x	x		x		D,P,S
Export to Lotus cc:Mail									D,P,S
Export to Lotus Domino	x	x	x	x	x		x		
Export to Lotus Notes									D,P,S
Export or e-mail reports with saved data	x	x	x	x	x	x	x		D,P,S
Export to XML	x	x	x	x	x	x	x		D,P,S 5
Export to PDF	x	x	x	x	x	x	x	x	D,P,S
Export to Microsoft Word (editable RTF)	x	x	x	x	x	x	x	x	D,P,S
Export to XML with optional XSLT transform	x	x	x	x	x	x	x		
Export to read-only RPT (RPTR)	x	x	x	x					
Export to HTML5	x	x	x			x			
Support for Microsoft Smart Tags in Microsoft Office XP	x	x	x	x	x				D,P,S

5. These export features are only available in the designer and not in the Web interface.

6. Via the OLAP semantic layer authored in the information design tool (UNX)

	2020	2016	2013	2011	2008	SAP Crystal Reports for Enter- prise*	Version for Visual Studio	Version for Eclipse	XI R2
Report Types									
Mailing labels	x	x	x	x	x	x			D,P,S
Cross-tab reports	x	x	x	x	x	x	x	x	D,P,S
Form-style reports	x	x	x	x	x	x	x	x	D,P,S
Subreports	x	x	x	x	x	x	x	x	D,P,S
Conditional reports	x	x	x	x	x	x	x	x	D,P,S
Top-n and bottom-n reports	x	x	x	x	x	x	x	x	D,P,S
Drill-down and summary reports	x	x	x	x	x	x	x	x	D,P,S
OLAP reports	x	x	x	x	x	x ⁶			D,P

6. Via the OLAP semantic layer authored in the information design tool (UNX)

	2020	2016	2013	2011	2008	SAP Crystal Reports for Enter- prise*	Version for Visual Studio	Version for Eclipse	XI R2
Chart Types									
Bar, stacked bar, column, stacked column	x	x	x	x	x	x	x	x	D,P,S
Line, area, pie scatter, bubble	x	x	x	x	x	x	x	x	D,P,S
Gantt, gauge	x	x	x	x	x	x	x	x	D,P,S
Numeric or date-time x-axis	x	x	x	x	x	x	x	x	D,P,S
Funnel	x	x	x	x	x	x	x	x	D,P,S
Stock, 3D Surface, 3D Rise, Radar, Histogram, Donut, XY Scatter	x	x	x	x	x	x	x	x	D,P,S
Box plot, Tag Cloud, Tree Map, Waterfall						x			

* Feature of SAP Crystal Reports for Enterprise software, the report design tool included with SAP Crystal Server. This tool requires an SAP Crystal Reports 2020 key code. Crystal Server 2020 1 NUL includes a Crystal Reports 2020 license code and the software for Crystal Reports for Enterprise.



	2020	2016	2013	2011	2008	SAP Crystal Reports for Enter- prise*	Version for Visual Studio	Version for Eclipse	XI R2
Application Development Features									
Report Designer Control (RDC)									D
Visual Control Library (VCL)									D
Support Microsoft Visual Basic 6.0 features									D
Support for unbound fields with auto-binding	x	x	x	x	x		x		D
Active data driver support (ADO, RDO, CDO) for runtime data sources	x	x	x	x	x		x		D
ADO.NET data source	x	x	x	x	x		x		
POJO data source	x	x	x	x	x			x	
Event and call-back support	x	x	x	x	x		x		D
User Function Libraries (UFLs) support COM objects	x	x	x	x	x		x		D,P,S
Viewing SDK in .NET and Java	x	x	x	x	x		x	x	D
Viewing SDK in COM									D
Report creation and modification SDK in .NET	x	x	x	x	x		x		D
Report creation and modification SDK in Java								x	D
Report creation and modification SDK in COM									D
Custom JSP Tag Library (for viewing)								x	D
Compliant with Java Server Faces									D
Server-side printing with RAS SDK	x	x	x	x	x		x	x	D
Web service access to XML data	x	x	x	x	x		Runtime only	Runtime only	D
Java UFLs	x	x	x	x	x	x		x	D
Support for hierarchical data (ADO, ADO.NET)	x	x	x	x	x		x		
LINQ objects as a data source	x	x	x	x	x		x		
Create .NET add-ins to the designer	x	x	x	x	x				
Unicode-compliant UFL interface	x	x	x	x	x		x		
Support for Microsoft Visual Studio						VS2008 VS2005 VS2003	VS2019 VS2017 VS2015 VS2013 VS2012 VS2010		VS2005 VS2003 VS2002
Versions of Microsoft Visual Basic supported by developer edition									VB6
Support for OpenDoc API with a very long URL	x	x	x	x	x	x			

7. Starting with SP6

	2020	2016	2013	2011	2008	SAP Crystal Reports for Enter- prise*	Version for Visual Studio	Version for Eclipse	XI R2
Data Access Features									
Heterogeneous data sources	x	x	x	x	x	x	x		D,P,S
Select distinct query for selecting records	x	x	x	x	x	x	x		D,P,S
Top-n query for selecting records	x	x	x	x	x	x	x		D,P,S
SQL database access and pass-through	x	x	x	x	x	x	x		D,P,S
Ad hoc SQL command	x	x	x	x	x	x	x	x	D,P
Sort data on SQL database servers	x	x	x	x	x	x	x		D,P,S
Security pass-through	x	x	x	x	x	x	x		D,P,S
Database driver conversion	x	x	x	x	x	x	x		D,P,S
Group-by, aggregation, and SQL expressions supported on non-SQL database servers	x	x	x	x	x	x	x		D,P,S
Stored procedure support (access via ODBC, Oracle, Sybase, SQL Server, SQL Anywhere)	x	x	x	x	x	x	x		D,P,S
Unlimited SQL commands	x	x	x	x	x	x	x	x	D,P,S
Support of multivalue parameters for SQL commands	x	x	x	x	x	x	x		
Web service data access	x	x	x	x	x	x	Runtime only	Runtime only	D,P
OLAP data access	x	x	x	x	x	x			D,P
Support semantic layer created by the universe designer (UNV)	x	x	x	x	x				D,P
Support semantic layer created by the information design tool (UNX)						x			

7. Starting with SP6

* Feature of SAP Crystal Reports for Enterprise software, the report design tool included with SAP Crystal Server. This tool requires an SAP Crystal Reports 2020 key code. Crystal Server 2020 1 NUL includes a Crystal Reports 2020 license code and the software for Crystal Reports for Enterprise.



SAP HANA® platform support	2020	2016	2013	2011	2008	SAP Crystal Reports for Enterprise*	Version for Visual Studio	Version for Eclipse	XI R2
Relational data access (JDBC and ODBC)	x	x	x	x		x			
Relational semantic layer support (UNIX)						x			
Multidimensional access to SAP HANA analytical and calculation views						x ⁸			

8. Starting with BI4.1

Supported Languages ⁹	2020	2016	2013	2011	2008	SAP Crystal Reports for Enterprise*	Version for Visual Studio	Version for Eclipse	XI R2
Arabic	x	x	x			x			
Chinese (Simplified)	x	x	x	x	x	x	x	x	D,P
Chinese (Traditional)	x	x	x	x	x	x	x	x	D,P
Czech	x	x	x	x	x	x		x	
Danish	x	x	x	x	x	x			
Dutch	x	x	x	x	x	x			D,P
English	x	x	x	x	x	x	x	x	D,P,S
Finnish	x	x	x	x	x	x			
French	x	x	x	x	x	x	x	x	D,P
German	x	x	x	x	x	x	x	x	D,P
Hungarian	x	x	x	x	x	x		x	
Italian	x	x	x	x	x	x	x	x	D,P
Japanese	x	x	x	x	x	x	x	x	D,P
Korean	x	x	x	x	x	x	x	x	D,P
Norwegian	x	x	x	x	x	x			
Polish	x	x	x	x	x	x		x	D,P
Portuguese (Brazil)	x	x	x	x	x	x		x	D,P
Russian	x	x	x	x	x	x	x	x	
Slovakian	x	x	x	x	x	x			
Spanish	x	x	x	x	x	x	x	x	D,P
Swedish	x	x	x	x	x	x			
Thai	x	x	x	x	x	x			
Turkish	x	x	x	x	x	x			
Hebrew	x	x							
Kazakh	x	x							
Romanian	x	x							
Slovenian	x	x							
Ukrainian	x	x							

9. Some components may be provided in English only

* Feature of SAP Crystal Reports for Enterprise software, the report design tool included with SAP Crystal Server. This tool requires an SAP Crystal Reports 2020 key code. Crystal Server 2020 1 NUL includes a Crystal Reports 2020 license code and the software for Crystal Reports for Enterprise.



Table 2: SAP® Crystal Server Comparison Matrix

Viewing and Interaction Features	2020	2016	2013	2011	2008	XI R2
Interactive Web-based viewer (ActiveX, Java applet)		X	X	X	X	X
Integrated end-user portal	X	X	X	X	X	X
End-user personalized and localized portal	X	X	X	X	X	X
Collaboration (discussion threads)	X	X	X	X	X	X
Collaboration (commentary)	X					
Integrated search feature	X	X	X	X	X	X
Consume interactive reports over the Web	X	X	X	X	X	X
Offline viewing	X	X	X	X	X	X
Interactive Web-based viewer (DHTML)	X	X	X	X	X	X
SAP® Crystal Dashboard Viewing option (NUL only)		X	X	X	X	
Dashboard layout (NUL only)		X	X	X	X	
End-user data exploration (NUL only)		X	X	X		
Consume interactive reports on mobile devices	X	X	X			
Consume PDF reports on mobile devices	X	X	X	X		
End-user data exploration on mobile devices (NUL only)		X	X	X		
SAP® Crystal Dashboard Viewing option (NUL and CAL)		X				
Fiorified Business Intelligence Launch Pad	X	X				
Sorting, filtering and resizing options	X	X				
Workflow assistant	X					
Smart view option of latest instance or report itself	X	X				

Sharing and Publishing Features	2020	2016	2013	2011	2008	XI R2
Event-based report scheduling	X	X	X	X	X	X
Report scheduling of object packages	X	X	X	X	X	X
Distribution to e-mail, file share, and paper	X	X	X	X	X	X
Schedule alerts and notifications	X	X	X	X	X	X
Destination format to print	X	X	X	X	X	X
Optionally add more publication recipients	X	X	X	X	X	
Destination format to Microsoft Excel and Word	X	X	X	X	X	X
Destination format to comma-separated values (CSV), paginated text, record style (columns of values), and tab-separated text and values	X	X	X	X	X	X
User and group profiles for tailored delivery	X	X	X	X	X	X
Global and recipient-level delivery rules	X	X	X	X	X	X
Bulk management of scheduled instances	X	X	X	X	X	X
Destination format to PDF and XML	X	X	X	X	X	
Data-driven publishing	X	X	X	X	X	
Personalized publications	X	X	X	X	X	
Publication management	X	X	X	X	X	
Publication failure handling	X	X	X	X	X	
Share SAP BusinessObjects Explorer® results by exporting or by e-mail		X	X	X		
Additional scheduling status	X	X				
Schedule to multiple destinations	X					
Schedule only during business hours	X					
Recurring Crystal Reports schedules exposed as OData Service	X					

* Feature of SAP Crystal Reports for Enterprise software, the report design tool included with SAP Crystal Server. This tool requires an SAP Crystal Reports 2020 key code. Crystal Server 2020 1 NUL includes a Crystal Reports 2020 license code and the software for Crystal Reports for Enterprise.



Manage, Secure, and Configure Features	2020	2016	2013	2011	2008	XI R2
Web-based report management console	X	X	X	X	X	X
Security for groups, users, folders, and reports	X	X	X	X	X	X
Data-level security	X	X	X	X	X	X
Batch publishing of reports to the central repository	X	X	X	X	X	X
Security for groups, users, folders, and reports	X	X	X	X	X	X
Single sign-on	X	X	X	X	X	X
Page caching for scalability	X	X	X	X	X	X
Customizable Web portal interface	X	X	X	X	X	X
Security integration with LDAP, Kerberos, eTrust, SiteMinder, and Windows NT Active Directory	X	X	X	X	X	X
Report object repository (store SQL, text, and images)	X	X	X	X	X	X
Bulk action support on multiple selected objects	X	X	X	X	X	
Custom access levels for improved user management	X	X	X	X	X	
Deployment diagnostic tool	X	X	X	X	X	
Software inventory tool to track administrative changes	X	X	X	X	X	
Web-based centralized server management	X	X	X	X	X	
Auditing of user activity and system events	X	X	X	X	X	
Sample auditing reports	X	X	X	X	X	
Lifecycle management to promote content between development, test, and production systems	X	X	X	X		
System diagnosis and monitoring	X	X	X	X		
Auditing dashboard	X	X	X	X		
Version control	X	X	X	X		
Support for the FIPS 140 cryptography standard	X	X	X	X		
Caching and processing servers for dashboard design data access		X	X	X		
SAP SQL Anywhere® solutions bundled as database server for CMS and auditing data store	X	X	X			
System configuration wizard	X	X	X			
BI administrator's cockpit	X	X				
User notification alerts	X	X				
Recycle Bin	X	X				
Virus scan interface	X	X				
Server group settings	X	X				
Mark items as favorite	X	X				
Enhanced credential mapping to save multiple sets of database credentials	X					

Licensing	2020	2016	2013	2011	2008	XI R2
Combine CAL and NUL licenses	X	X	X	X	X	X
Support up to 350 users			X	X	X	
Virtualization friendly (unlimited CPUs)	X	X	X	X	X	
Support up to 150 users	X	X				

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Support of SAP Crystal Reports® Features	2020	2016	2013	2011	2008	XI R2
Semantic layer support (business views)	X	X	X	X	X	X
Print and export charts and reports over the Web	X	X	X	X	X	X
Drill down on charts and reports	X	X	X	X	X	X
Dynamic cascading prompts	X	X	X	X	X	X
Dynamic image location	X	X	X	X	X	X
Parameterized sorting and hierarchical grouping	X	X	X	X	X	X
Drag-and-drop cross-tabs	X	X	X	X	X	X
Export to Microsoft Excel and allow grouping outlines	X	X	X	X	X	X
Export to CSV supports options to control appearance	X	X	X	X	X	X
Integrate Adobe Flash, SAP Crystal Dashboard Design software, and Adobe Flex in reports		X	X	X	X	
Interactivity with embedded visualizations	X	X	X	X	X	
On-report parameter panels	X	X	X	X	X	
On-report filter and sort controls	X	X	X	X	X	
Flexible Web pagination	X	X	X	X	X	
Custom calculations in cross-tab reports	X	X	X	X	X	
View read-only RPT files (RPTR)	X	X	X	X		
Export to Microsoft Excel XLSX	X	X	X	X		
Support for semantic layers (UNX) created with the information design tool*	X	X	X	X		
Smart guidelines to move and resize columns*	X	X	X	X		
Platform alerting integration*	X	X	X	X		
Access OLAP data without using an OLAP grid*	X	X	X	X		
Access relational data in a hierarchical format*	X	X	X	X		
Common query panel for accessing semantic layers*	X	X	X	X		
View Dashboards in HTML format	X	X				
Vertical alignment of text within cell	X	X				

Customization and Integration Features	2020	2016	2013	2011	2008	XI R2
Microsoft .NET API for application integration	X	X	X	X	X	X
Java API for application integration	X	X	X	X	X	X
JavaScript API for SAP Crystal Reports content viewing	X	X	X			
RESTFUL Web service for SAP Crystal Reports for Enterprise	X	X	X			
Microsoft SharePoint integration	X	X	X	X	X	X
IBM WebSphere portal integration	X	X	X	X	X	X
Oracle WebLogic portal integration	X	X	X	X	X	X
SAP BusinessObjects™ Live Office software	X	X	X	X	X	X
SAP Jam social software platform for collaboration integration	X	X	X			

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Supported Languages ⁹	2020	2016	2013	2011	2008	XI Release 2
Arabic	X	X	X			
Chinese (Simplified)	X	X	X	X	X	X
Chinese (Traditional)	X	X	X	X	X	X
Czech	X	X	X	X	X	
Danish	X	X	X	X	X	
Dutch	X	X	X	X	X	X
English	X	X	X	X	X	X
Finnish	X	X	X	X	X	
French	X	X	X	X	X	X
German	X	X	X	X	X	X
Hungarian	X	X	X	X	X	
Italian	X	X	X	X	X	X
Japanese	X	X	X	X	X	X
Korean	X	X	X	X	X	X
Norwegian	X	X	X	X	X	
Polish	X	X	X	X	X	
Portuguese (Brazil)	X	X	X	X	X	X
Russian	X	X	X	X	X	
Slovakian	X	X	X	X	X	
Spanish	X	X	X	X	X	X
Swedish	X	X	X	X	X	X
Thai	X	X	X	X	X	
Turkish	X	X	X	X		
Hebrew	X	X				
Kazakh	X	X				
Romanian	X	X				
Slovenian	X	X				
Ukrainian	X	X				

9. Some components may be provided in English only



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