

SAP BusinessObjects BI platform 2025

Supported platforms (PAM)

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Table of Contents

Supported Platforms

1. [BI 4.3 vs BI 2025 major changes](#)
2. [Certification Roadmap for 2025](#)
3. [Operating System](#)
4. [Language](#)
5. [Browser](#)
6. [Java Application Server](#)
7. [CMS + Audit Repository](#)
8. [Directory Server \(LDAP\)](#)
9. [Other Technology](#)
10. [Networking, Security Tools, Cloud infrastructure and Virtualization](#)
11. [Cloud Storage Platform](#)
12. [OpenID Connect \(OIDC\) Authentication Support](#)
13. [OLAP Server support by Product](#)
14. [SAP BW Support by Product](#) (incl. [SAP BW/4HANA](#))
15. [SAP HANA Support by Product](#) (incl. [SAP HANA Cloud](#))
16. [SAP S/4HANA Support by Product](#)
17. [SAP Datasphere Support by Product](#)
18. [Relational Semantic Layer Data Sources](#)
19. [Crystal Report 2025 Data Access](#)
20. [Data Services and Information Steward](#)

Appendix

- [Minimum Hardware + Operating System Patch Requirements + Supported Locales + Glossary](#)

This document is also applicable to Edge BI 2025 and Crystal Server 2025.

For Edge BI 2025:

- Windows and Linux operating systems are supported.

For Crystal Server 2025:

- Only Windows operating system is supported.
- Following components are not supported: Web Intelligence, SAP ERP / BW integration.

Support will be provided exclusively for Operating Systems, Application Servers, Databases, and other components that are **certified and in mainstream maintenance**. Versions that have reached the end of their mainstream maintenance period or are in extended maintenance may still operate but will not be officially supported. SAP cannot guarantee assistance for issues encountered on these versions unless they are also reproducible on fully supported and certified versions.

BI Community pages: [click here](#)

BI Maintenance Strategy document: [click here](#)

FAQ on SAP BusinessObjects 2025: SAP Note [3582341](#)



BI 4.3 vs BI 2025 major changes

Type	Provider Name	Name	
Operating System	IBM	AIX	Support removed
Operating System	Oracle	Solaris	
Java Application Server	SAP	NetWeaver Java Application Server	
Java Application Server	SAP	WACS	
Portal Server	SAP	NetWeaver Enterprise Portal	
Portal Server	IBM	WebSphere Portal	
Portal Server	Microsoft	SharePoint	
Authentication plugins	Integration Kits by Oracle	- Oracle E-Business Suite - JD Edwards EnterpriseOne Tools - Siebel	

SAP BusinessObjects BI 2025 is shipped with and supports only [SapMachine JRE 17](#) (based on Java 17).

SAP BusinessObjects BI 4.3 is shipped with and supports only [SAP JVM](#) 8 (based on Java 8).

Please check SAP Note [3560025](#) to have more details about product and feature removal.



Certification Roadmap for BI 2025

Below is the roadmap for platforms and data sources certifications. The corresponding sections will be updated accordingly once certification is fully done.

Type	Provider Name	Name	Version to be certified	Timeline
Java Application Server	IBM	Websphere	Liberty 21 or 24	Tentative Plan H1 2025
Java Application Server	Oracle	Weblogic	14.1.2	Version not yet released – no ETA
Java Application Server	Red Hat	JBoss EAP	8	Tentative Plan H1 2025
CMS + Audit Repository Support	Oracle	Oracle	21e	Done
CMS + Audit Repository Support	Oracle	Oracle	23ai	Tentative Plan H1 2025

Operating System Support



64-bit BusinessObjects BI Server Products				
Provider Name	Name	Minimum Supported version	Latest certified version *	Notes
Windows	Microsoft Windows Server	2022	2025	
Linux	Amazon Linux	2	2	
	Suse SLES	15 SP03	15 SP06	
	Red Hat EL	8.8 / 9.2	8.10 / 9.5	
	Oracle Linux (RHCK)(UEK)	8.8 / 9.2	8.8 / 9.4	

64-bit BusinessObjects BI Desktop Client Products				
Provider Name	Name	Minimum Supported version	Latest certified version *	Notes
Windows	Windows Server	2022	2025	
	Windows Client	11	11 23h2	

SAP BusinessObjects BI server components only support 64-bit operating systems. Only 64-bit OS are supported: [details](#). This is not a complete list of platform/connectivity services. SAP BusinessObjects BI is only supported on **X86_64 (64-bit Intel/AMD)** architecture. ARM, Power, and other non-x86_64 architectures are not supported..

Support will be available for Operating System in extended maintenance (e.g Windows 2019) only if the same issue can be reproduced on mainstream maintenance Windows versions (e.g Windows 2022 or 2025). Issue specific to the OS in extended maintenance will not be considered.

Please check supported Operating System details on [Common Cryptographic Library \(CCL / SAPJCE\) PAM Link](#)

*The Operating System coming minor releases (Oracle Linux 8.x for example) are compatible by reference. Regularly, some certifications will be planned on latest Operating System release.



Language Support by Products

UI: The user interface for all BI 2025 products 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.

	Danish	Dutch	English	Finnish	French	German	Hebrew (***)	Italian	Japanese	Korean	Norwegian	Polish	Portuguese	Russian	S Chinese	Spanish	Swedish	T Chinese (*1)	Thai	Arabic (***)	Czech	Hungarian	Kazakh (***)	Romanian	Slovakian	Slovenian	Turkish	Ukrainian (***)
BusinessObjects Enterprise Products																												
BusinessObjects BI Server Products	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
BusinessObjects BI Desktop Products	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

(***) Arabic, Hebrew, Ukrainian and Kazakh Support

BI launch pad (*2) (*3)

BI workspaces (viewing only) (*3)

Crystal Reports Web Viewer (*3)

Web Intelligence

- Web Intelligence Rich Internet Application (Fiori Viewer) (*3)
- Web Intelligence Rich Client

(*1) Traditional Chinese is not supported by Platform Search

(*2) BI platform plug-in components that can be accessed through the BI launch pad are not all supported in Arabic. Supported BI platform plug-in components are listed separately in this table.

(*3) For those browser-based components that support Arabic, support is limited to Firefox.

Browser Support



Provider Name	Name	Minimum Supported version	Latest certified version	Notes
Apple	Safari	Safari 11	17.6	
Google	Chrome	106.x	133	The current version of Google Chrome and Microsoft Chromium Edge are supported based on testing with earlier versions of these browsers. Although SAP will work to maintain compatibility with them. Please be aware that issues may be introduced when significant changes are made to Google Chrome and Microsoft Chromium Edge between BI Support Packages releases.
Microsoft	Chromium Edge	106.x	132	
Mozilla	Firefox ESR	60.x	128	For more information about Firefox Extended Support Releases (ESR): http://www.mozilla.org/en-US/firefox/organizations/faq/

Only 64 bit browsers are supported.

Web Intelligence in BI 2025 is touch ready for Reading mode only.

BI 2025 WIDX will work only on Windows Desktop with Google Chrome or Microsoft Edge installed



Java Application Server Support

- The platforms on this slide are supported as application servers. For more information, please refer to the Web Application Deployment Guide.
- Windows Server, Linux are supported.
- Any HTTP server supported by the application server vendor can be used with the supported application server.

Provider Name	Name	Minimum Supported version	Latest certified version	Supported since	Notes
Apache	Tomcat	9.x	9.x	BI 2025	<p>Certified for SAP Machine (Java 17)</p> <p>As free open-source third-party web application server, SAP recommends you contact a qualified third-party vendor or consultant for performance tuning, security related issues and load balancer configurations (see SAP KBA 2280098).</p> <p>Please check KBA 2112338 for bundled tomcat and JVM version</p>

CMS + Audit Repository Support [1/2]

Operating systems supported : Windows Server and Linux



Provider Name	Name	Version	Database Connector <i>Only 64-bits versions are supported</i>	Comments
IBM	Db2 for Linux, UNIX, and Windows	11.5	Db2 Client 11.5	
		12.1	Db2 Client 12.1	Since BI_2025_Patch 01
	Db2 Workgroup Edition	11.5	Db2 Client 11.5	
		12.1	Db2 Client 12.1	Since BI_2025_Patch 01
Microsoft	Microsoft SQL Server	2019	Microsoft ODBC Driver 17	Not supported with Linux platforms.
		2022	Microsoft ODBC Driver 18	
	Azure SQL Database		Microsoft ODBC Driver 13	Not supported with Linux platforms.

CMS + Audit Repository Support [2/2]

Operating systems supported : Windows Server and Linux



Provider Name	Name	Version	Database Connector <i>Only 64-bits versions are supported</i>	Notes
MySQL	MySQL AB	8.0.x	MySQL Router	For MySQL 8.0.28 and upper version, please follow SAP Note 3215377
Oracle	Oracle	19c	Oracle Net Client 19c	Oracle Real Application Clusters (RAC) is supported. All types of Oracle Exadata are supported (OnPrem & Cloud) Oracle Autonomous DB is supported.
		21c	Oracle Net Client 21c	
SAP	HANA 2.0	SPS 06 up to 07		
	Adaptive Server Enterprise	16	Sybase Open Client 16	
	Sybase SQL Anywhere	17	Sybase SQL Anywhere ODBC Driver 17	



Directory Server (LDAP) Support

Windows Server and Linux are supported.

Provider Name	Name	Minimum Supported version	Latest certified version
Computer Associates	CA Directory	-	14.0
IBM	Tivoli Directory Server	6.4	6.4
Microsoft	Active Directory	2019	2022
NetIQ	eDirectory	9.0 SP02	9.1
Oracle	Internet Directory	12.2	12.2
	ODSEE	11g Release 1 (11.1.1)	11g Release 1 (11.1.1)
Redhat	LDAP Server	10.4	10.4



Other Technology Support

Provider Name	Name	Minimum Supported version	Latest certified version	Notes
Computer Associates Access Management	eTrust Siteminder	12.52	12.8	All Platforms supported.
Microsoft	Microsoft Active Directory (including LDS support)	2016	2022	
	.NET Framework	4.6	4.8	
	Microsoft Office	2016	Office 365/2021	<ul style="list-style-type: none">- SPs of Microsoft Office that are higher than the minimum listed SPs are supported by reference.- MS Office 64 bit is supported on Live Office.- Live Office Panel for Outlook is removed since BI 2025.- No support for integrating with Office 365 cloud offerings as such. Office 365 support is only for the version of Microsoft Office being supported.
SAP	SAP GUI for Windows	8.0	8.0	SAPGUI 8.0 supported since BI 2025
Freedom Scientific	Jaws	2023	2023	SAP note 893585

Reverse Proxy

Apache HTTP Server 2.2 and 2.4

WebSEAL 6 and 7



Networking, Security Tools, Cloud infrastructure and Virtualization

➤ Load Balancer:

- All forms of Load Balancers are supported, however the support for Load Balancer specific issues (where the issue doesn't occur directly against the WAS) is best effort, since the Load Balancer is an external tool. See the KBA [2805990](#) - **Investigating Load Balancer issues in BI 4.x** for more details.

➤ Firewalls & Security tools :

- All forms of firewalls and security tools are supported. See the KBA [1294016](#) - **Configuring Business Objects Server for use across Firewalls [How-To]** for more details.
- SAP Support may request these tools be temporarily disabled for the purposes of troubleshooting, as some security tools may interfere with the normal operations of the product.

➤ Cloud Infrastructure:

- We support all Cloud environments as soon as the Operating System version is supported (see [Operating System Support](#)). However, the support for Cloud Infrastructure specific issues is best effort, since the Cloud Infrastructure is a public cloud environment.

➤ Virtualization Technology Support:

- Refer to the SAP Note [1492000](#) for the general statement on virtualization technology support.
- Virtualization is generally transparent to an application, as such, the support and certifications are based upon the Operating System, rather than the underlying virtualization. (see [Operating System Support](#)).
- We support only X86_64 architecture Server and Client.

Cloud Storage Platform Support



SAP Business Intelligence 2025 solutions can be configured with cloud storage platforms for publication and sharing of corporate documents such as Excel and Text files, and other types of documents.

Refer to the table below for supported cloud storage offerings:

Cloud Storage Platform Offering	Additional Notes (for supported combinations, client/server components)
Google Drive (*1)	Support via SAP BI Platform (*2)
Microsoft OneDrive (*1)	Support via SAP BI Platform (*2)

(*1) Google Drive and Microsoft OneDrive are only supported by SAP BI Platform, Web Intelligence and Crystal Reports

(*2) To access Google Drive and Microsoft OneDrive, need to first configure an Authorization Server (OAuth 2.0) in SAP BI Platform



OpenID Connect (OIDC) Authentication Support

SAP Business Intelligence 2025 solutions can be configured or deployed on infrastructure supporting OpenID authentications. By default, OpenID Connect standard protocol (*1) is supported and following products have been certified.

Provider Name	
Google	Google Federated Identity / Workload Identity Federation
Microsoft	Azure Active Directory V2 / Entra
SAP	Identity Authentication Service

(*1) OpenID Connect Authentication is only supported through the Enterprise Authentication alias.

The above-mentioned versions are explicitly tested Authorization Servers, out of available OAuth 2.0 protocol supported Authorization Servers.

The other authorization servers based on the same certified OAuth 2.0 standard are supported but by reference of the certified authorization servers. It means SAP will not be able investigate specific issues that cannot be reproduced with certified authorization servers.

SAML authentication Support



SAP Business Intelligence 2025 solutions can be configured or deployed on infrastructure supporting SAML authentications. By default, SAML standard protocol (*1) is supported and following products have been certified.

Provider Name	
Google	Google Federated Identity / Workload Identity Federation
Microsoft	Azure Active Directory V2 / Entra
SAP	Identity Authentication Service

(*1) SAML Connect Authentication is only supported through the Enterprise Authentication alias.

OLAP Server Support by product



This section is applicable to BI tools such as Web Intelligence(*1) and Semantic Layer; except Crystal Reports 2025 (covered in [Crystal Reports 2025 Data Access slide](#))

Provider Name	Version	Connectivity
Microsoft SQL Server Analysis Services	2016 / 2017 / 2019	BICS XMLA
Oracle Essbase	v11	BICS JAPI
SAP BW	See SAP BW and SAP BW/4HANA slides	BICS BW
SAP HANA	See SAP HANA and SAP HANA Cloud slides	BICS INA
SAP Datasphere	See SAP Datasphere slides	BICS INA

(*1) Web Intelligence can consume Universes on supported OLAP sources, and can also consume directly OLAP connections on [SAP BW](#) / [SAP HANA](#) / [SAP Datasphere](#) / MS Analysis Services / Oracle Essbase

SAP BW Minimum version per product - Overview ^(*1)



Please refer to SAP Note [1869560](#), for details on the level of support for BEx query elements, and typical BEx query functionality for all BI client tools.

Product	Connectivity	BW 7.50 and later ^(*2)
Analysis, edition for Microsoft Office ^(*3)	BICS BW (Direct to BW)	✓
Crystal Reports 2025	Direct BW Connection	✓
Web Intelligence	BICS BW (Direct to BW and via a dimensional UNX)	✓

Useful links: SAP Note [1648480](#) about SAP NetWeaver 7 Maintenance.

^(*1) The most recent version tested and certified is **BW 7.5 SPS30**.

^(*2) By backward compatibility, BW 7.5 coming releases are compatible by reference with SAP BI, but will be planned for certification as soon as they will be released.

^(*3) Use Analysis, edition for MSFT Office 2.8 SP3 version or higher with BI 4.3. Refer to the Analysis, edition for MSFT Office PAM for details.

SAP BW/4HANA Minimum version per product - Overview^(*1)



		BW/4HANA 2.0 and later	BW/4HANA 2021 and later	BW/4HANA 2023 and later
Product	Connectivity	Last certified SP14 (*2)	Last certified SP08 (*2)	Last certified FPS1 (*2)
Analysis, edition for Microsoft Office	BICS BW (Direct to BW)	✓	✓	✓
Web Intelligence	BICS BW (Direct to BW and via a dimensional UNX)	✓	✓	✓
		✓	✓	✓
Crystal Reports 2025	Direct to BW query	✓	✓	✓

(*1) The end of maintenance date for BW/4HANA 1.0 was end of 2021. See [SAP Note 3087277](#)

(*2) By backward compatibility, BW/4HANA coming releases are compatible by reference with SAP BI, but will be planned for certification as soon as they will be released.

SAP HANA Support per product - Overview ^(*1)



Please refer to SAP Note [2631562](#), for details on the level of support for HANA features, and typical HANA view functionality for all BI client tools (*3).

Product	Connectivity	HANA 2.0 and later (*2)
Web Intelligence	Direct access and Relational UNX universe	✓
	BICS INA / HTTP (Direct Access and Dimensional UNX universe)	✓
Crystal Reports 2025	Direct connection via ODBC/JDBC	✓
Analysis Edition for Microsoft Office (*4)(*5) (*6)	BICS INA / HTTP	✓

(*1) The most recent version tested and certified in **HANA 2.0 SPS07**

(*2) By backward compatibility, HANA 2.0 coming releases are compatible by reference with SAP BI, but will be planned for certification as soon as they will be released.

(*3) SAP HANA 1.0 is no longer supported by SAP.

(*4) Please refer to the Analysis, Edition for Microsoft Office PAM for details.

(*5) Use Analysis, edition for MSFT Office 2.8 SP3 version or higher with BI 2025.

(*6) With Hana 2. HANA 2 the SAP HANA plugin EPM-MDS is required.

SAP HANA Cloud Support per product - Overview



Product	Connectivity	SAP HANA Cloud 1.0
Crystal Reports 2025	Direct Connection via ODBC/JDBC	✓
Web Intelligence	BICS INA (*1) (Direct Access and Dimensional UNIX universe)	✓
	JDBC / ODBC (*2) (*3) (Relational UNIX Universes)	✓
		✓

(*1) To connect to SAP HANA Cloud via INA, make sure executing user has InA role and EXECUTE privileges on EXECUTE_MDS procedure.

(*2) To connect to SAP HANA Cloud via JDBC/ODBC, make sure to use SAP HANA Client version 2.4.167 (or 2.4.67 for the JDBC driver) or later. See [SAP HANA Cloud slide](#).

(*3) To access HANA Calculation views available on SAP HANA Cloud via JDBC/ODBC, make sure executing user has the SELECT privilege provided by the role PUBLIC for views in _SYS_BI schema. See SAP Note [3386847](#).

SAP S/4HANA Minimum version per product - Overview ^(*1)



		S/4HANA 1709 / 1805	S/4HANA 1809	S/4HANA 1909	S/4HANA 2020	S/4HANA 2021	S/4HANA 2022	S/4HANA 2023
Product	Connectivity	Last certified SPS12 (*2)	Last certified SPS10 (*2)	Last certified SPS8 (*2)	Last certified SP06 (*2)	Last certified SP04 (*2)	Last certified SP02 (*2)	Last certified FPS1 (*2)
Analysis, edition for Microsoft Office	BICS BW (Direct to BW)	✓	✓	✓	✓	✓	✓	✓
Web Intelligence	BICS BW (Direct to BW and via dimensional UNX)	✓	✓	✓	✓	✓	✓	✓
		✓	✓	✓	✓	✓	✓	✓

Useful link: SAP Note [2900388](#) about maintenance for the SAP S/4HANA product line until 2040.

(*1) Latest S/4HANA version is supported with all BI 2025 versions

(*2) By backward compatibility, S/4HANA coming releases are compatible by reference with SAP BI, but will be planned for certification as soon as they will be released

SAP Datasphere Support per product - Overview



Product	Connectivity	SAP Datasphere 1.0	Notes
Web Intelligence	BICS INA (*1) (Direct Access and Dimensional UNX universe)	✓	Support of SAP Datasphere Analytic Models only
	JDBC / ODBC (*2) (Relational UNX Universes)	✓	Support of SAP Datasphere views via Open SQL Schema
Crystal Reports 2025	JDBC / ODBC (*2) (Relational UNX Universes)	✓	
	JDBC / ODBC (*2) (Direct Connection)	✓	

(*1) To connect to SAP Datasphere via INA, need to first setup an Authorization Server Configuration in SAP BI Platform from the OAuth Client registered in your Datasphere tenant

(*2) To connect to SAP Datasphere Cloud via JDBC/ODBC and also access the underlying SAP HANA Cloud, need to first create Database users in your Datasphere tenant.

Relational Semantic Layer Data Sources [1/2]



- **Amazon** [Athena](#), [Aurora](#), [EMR](#) (REFACTORED), [RDS](#), [Redshift](#) (REFACTORED)
- **Cloudera** [CDP](#) (REFACTORED)
- **Databricks** [Databricks](#) (UPGRADE)
- **Denodo** [Denodo](#)
- **Generic** [Java Beans](#), [JDBC](#), [ODBC](#), [OLEDB](#), [OData](#), [Web Services](#), [Text and XML files](#)
- **Google** [BigQuery](#)
- **Greenplum** [Greenplum](#) (UPGRADE)
- **Hewlett Packard** [Vertica](#)
- **IBM** [Db2 for i](#), [Db2 for LUW](#), [Db2 for zOS](#), [Db2 Warehouse](#), [Informix](#), [Netezza](#)
- **MapR** [MEP](#) (REFACTORED)
- **MariaDB** [MariaDB](#)
- **Microsoft** [Azure](#), [MS Access & Excel](#) (UPGRADE), [MS Parallel Data Warehouse](#), [MS SQL Server](#), [Text Files](#)
- **MongoDB** [MongoDB BI Connector](#) (NEW)
- **Oracle** [MySQL](#), [Oracle Database and Exadata](#) (UPGRADE), [Oracle Cloud](#), [Oracle e-Business Suite](#)
- **PostgreSQL** [PostgreSQL](#) (UPGRADE)
- **PrestoDB** [PrestoDB](#)
- **Progress** [OpenEdge](#)
- **SAP** [BI Platform CMS DB](#), [Datasphere](#), [ERP](#), [HANA](#), [HANA Cloud](#), [HANA Cloud Data Lake](#), [MaxDB](#)

This section is applicable to Semantic Layer clients such as **Web Intelligence**, **Crystal Reports Enterprise** and **Lumira**

By default, all Semantic Layer data sources are supported in UNIX universes.

Windows and Unix platforms are supported for all Semantic Layer data sources. For ODBC connections on Unix, UnixODBC or DataDirect ODBC can be required.

Refer to [Deprecated Semantic Layer Data Sources](#) for data sources deprecated or removed in this BI release.

Refer to [OAuth Semantic Layer Data Sources](#) for OAuth data sources supported in this BI release.

Refer to the [Semantic Layer Data Source Support Policy](#) for support conditions on vendor databases by SAP.

(NEW) New DB in current BI 2025 version

(UPGRADE) Upgraded DB in current BI 2025 version

(REFACTORED) Simba drivers no longer shipped in BI 2025 version. Need to download them from the distributor website.

See [Glossary](#) for additional information

Relational Semantic Layer Data Sources [2/2]



- **SAP Sybase** [Adaptive Server Enterprise](#), [IQ](#), [SQL Anywhere](#)
- **Snowflake** [Snowflake](#)
- **SQLite** [SQLite](#)
- **Starburst** [Starburst Enterprise](#)
- **Teradata** [Teradata](#)
- **Trino** [Trino](#)

Amazon Athena

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
Athena	JDBC	Athena JDBC42 Driver 2.0	BI 2025	Athena Engine Version Reference

Amazon Aurora

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
MySQL in Amazon Aurora	JDBC	MySQL 8.0 JDBC Driver (mysql-connector-java-8.0.12)	BI 2025	Release Notes for Aurora MySQL Certification done with TLS 1.2+.
PostgreSQL in Amazon Aurora	JDBC	PostgreSQL 12.00 JDBC Driver (postgresql-42.2.11.jar)	BI 2025	Release Notes for Aurora PostgreSQL

Amazon EMR (*1)

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
Hive in Amazon EMR 5	JDBC / ODBC	Amazon Hive JDBC42 / ODBC Driver 2.06 / 2.08	BI 2025	Amazon EMR 5.x release versions
Hive in Amazon EMR 6	JDBC / ODBC	Amazon Hive JDBC42 / ODBC Driver 2.06 / 2.08	BI 2025	Amazon EMR 6.x release versions

(*1) Hive JDBC and ODBC Drivers for Amazon EMR need to be downloaded from [Amazon EMR site](#) and installed before using this data source.

Amazon RDS

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
MariaDB in Amazon RDS	JDBC	Use MariaDB JDBC connection	BI 2025	RDS for MariaDB
MySQL in Amazon RDS	JDBC	Use MySQL 8.0 JDBC connection	BI 2025	RDS for MySQL
Oracle in Amazon RDS	JDBC	Use Oracle 21c JDBC connection	BI 2025	RDS for Oracle release notes
PostgreSQL in Amazon RDS	JDBC	Use PostgreSQL JDBC connection	BI 2025	RDS for PostgreSQL release notes
SQL Server in Amazon RDS	JDBC	Use SQL Server JDBC connection	BI 2025	RDS for SQL Server

Amazon Redshift (*1)

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
Amazon Redshift	JDBC	Amazon Redshift JDBC42 Driver 2.1	BI 2025	Amazon Redshift Cluster Versions Including support for AWS Redshift Datashares via External Schema Tables
	ODBC	Amazon Redshift ODBC Driver 2.x	BI 2025	

(*1) JDBC and ODBC Drivers for Amazon Redshift need to be downloaded from [Amazon Redshift site](#) and installed before using this data source.

Cloudera (*1)(*2)

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
Hive in CDP 7	JDBC / ODBC	Cloudera Hive JDBC4 / ODBC Driver 2.6 / 2.8	BI 2025	Cloudera Data Platform Release Notes
Impala in CDP 7	JDBC / ODBC	Cloudera Impala JDBC42 / ODBC Driver 2.6 / 2.8	BI 2025	

(*1) Hive / Impala JDBC and ODBC Drivers for Cloudera need to be downloaded from [Cloudera Downloads site](#) and installed before using this data source.

(*2) Cloudera CDH services are no longer supported by vendor recommending to move to the Cloudera CDP combining the best of CDH and HDP (Hortonworks Data Platform) services.



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
Databricks	JDBC	Databricks JDBC Driver 02.06.32	BI 2025	Databricks Release Notes Support on Azure, AWS, and GCP. Including support for OAuth authentication mode in Databricks.

Denodo

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
Denodo 8	JDBC / OBDC	JDBC / ODBC Driver for Denodo Platform 8.0 (denodo-vdp-jdbcdriver-8.0-update-20210209 / denodo-vdp-odbcdriver-8.0-update-20210209)	BI 2025	Denodo Platform 8.0 Documentation

Generic (*1)

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
Generic Java Beans	JavaBean	N/A	BI 2025	No SQL. Only exposed as stored procedures.
Generic JDBC	JDBC	N/A	BI 2025	Java JDBC API Reference
Generic OData 2.0	ODATA	BusinessObjects ODATA 2 connector	BI 2025	OData Version 2.0 Reference
Generic ODBC 3	ODBC	N/A	BI 2025	ODBC API Reference
Generic OLEDB	OLE DB	N/A	BI 2025	OLE DB API Reference
Text Files	BO OC	BusinessObjects Text File connector	BI 2025	
Web Services (WSDL 1.1)	BO OC	BusinessObjects Web Service connector	BI 2025	
XML Files	BO OC	BusinessObjects XML File connector	BI 2025	

(*1) Generic: Standard connectivity or middleware tested by SAP on a reference source: MS SQL for ODBC and OLE DB or MySQL for JDBC. For customer drivers based on Generic, see the [Data Source Support Policy statement](#)

Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
BigQuery	JDBC	Google BigQuery JDBC 1.2.25	BI 2025	Google BigQuery Release Notes
	ODBC	Google BigQuery ODBC 2.4.6	BI 2025	

Greenplum

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
Greenplum 7	JDBC	Progress DataDirect for JDBC for Greenplum - 6.0.0	BI 2025	Greenplum 7 Release Notes
	ODBC	Progress DataDirect for ODBC for Greenplum Wire Protocol - 8.0.2	BI 2025	



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
HP Vertica 23	JDBC / ODBC	HP Vertica 23.0 JDBC / ODBC Driver	BI 2025	HP Vertica 23 Release Notes

IBM - Db2 for i

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
Db2 for i v7	Db2 Client	Db2 Connect v10.05	BI 2025	
	ODBC	Db2 iSeries Access ODBC 13.00	BI 2025	Only on Windows.

IBM - Db2 for LUW

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
Db2 for LUW 11	Db2 Client	Db2 Client 11.05	BI 2025	Release Notes for Db2 Version 11 for Linux, Unix and Windows
	JDBC	JDBC Driver Version 4.26	BI 2025	
IBM Db2 for LUW 12.1	Db2 Client	Db2 Client 12.1	BI 2025 Patch 01	

IBM - Db2 for zOS

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
Db2 for z/OS 12	Db2 Client	Db2 Client 11.01	BI 2025	
	JDBC	JDBC Driver Version 4.22	BI 2025	

IBM - Db2 Warehouse

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
Db2 Warehouse 3	Db2 Client	Db2LUWClient 11.5	BI 2025	IBM Db2 Warehouse 3 Release Notes
	JDBC	db2driver-for-JDBC-sqlj-v11.5	BI 2025	

IBM - Informix Dynamic Server

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
Informix Dynamic Server 12	JDBC / ODBC	IBM Informix JDBC driver / Client SDK 3.7	BI 2025	IBM Informix 12 Release Notes
Informix Dynamic Server 14	JDBC / ODBC	IBM Informix JDBC driver / Client SDK 4.50	BI 2025	IBM Informix 14 Release Notes

IBM - Netezza

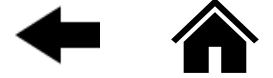
Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
Netezza Performance Server	JDBC	Netezza JDBC Driver 11.0	BI 2025	IBM Netezza 11 Release Notes
	ODBC	Netezza ODBC Driver 7.2	BI 2025	

MapR (*1)(*2)

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
Hive in MEP 7	JDBC / ODBC	Cloudera Hive JDBC4 / ODBC Driver 2.6 / 2.8	BI 2025	MEP 7 Hive Release Notes
Impala in MEP 7	JDBC / ODBC	Cloudera Impala JDBC42 / ODBC Driver 2.6 / 2.8	BI 2025	MEP 7 Impala Release Notes
Spark in MEP 7	JDBC / ODBC	MapR Spark JDBC4 / ODBC Driver 2.6 / 2.6	BI 2025	MEP 7 Spark Release Notes
Hive in MEP 8	JDBC / ODBC	Cloudera Hive JDBC4 / ODBC Driver 2.6 / 2.8	BI 2025	MEP 8 Hive Release Notes Only on Windows and Linux for ODBC
Spark in MEP 8	JDBC / ODBC	MapR Spark JDBC4 / ODBC Driver 2.6 / 2.6	BI 2025	MEP 8 Spark Release Notes Only on Windows for ODBC

(*1) Hive / Impala / Spark JDBC and ODBC Drivers for MapR MEP need to be downloaded from [MapR MEP Downloads site](#) and installed before using this data source.

(*2) MapR Hive and Impala connections can be also used with Cloudera Hive and Impala drivers available in [Cloudera Downloads site](#).

MariaDB

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
MariaDB	JDBC	MariaDB Connector/J 3.0.7	BI 2025	MariaDB Release Notes

Microsoft - Azure

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
Azure SQL Database	JDBC	Microsoft JDBC Driver 8.4 for SQL Server (mssql-jdbc-8.4.1.jre8.jar)	BI 2025	What is Azure SQL Database
	ODBC	SQL Server Native Client 17.05	BI 2025	
Azure Synapse Analytics	JDBC	Microsoft JDBC Driver 6.0 for SQL Server (sqljdbc_6.0.8112.200)	BI 2025	Azure Synapse Analytics releases

Microsoft - Access and Excel

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
MS Access / Excel 2013	ODBC	Office Access ODBC 15.00	BI 2025	Only on Windows.
MS Access / Excel 2016	ODBC	Office Access ODBC 16.00	BI 2025	Only on Windows.
MS Access / Excel 2019	ODBC	Office Access ODBC 16.00	BI 2025	Only on Windows.
MS Excel 2021	ODBC	Office Access ODBC 16.00	BI 2025	Only on Windows.

Microsoft - MS Parallel Data Warehouse

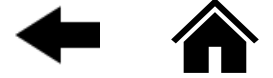
Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since
MS Parallel Data Warehouse	JDBC	SQL Server 2016 driver for JDBC	BI 2025

Microsoft - SQL Server

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
SQL Server 2016	JDBC / ODBC	JDBC: SQL Server driver for JDBC (sqlJDBC4.jar) ODBC: SQL Server Native Client 11.0 / Data direct 7.0.1 for all unix only	BI 2025	SQL Server 2016 Release Notes
SQL Server 2017	JDBC / ODBC / OLEDB	JDBC: MS JDBC Driver 6.4 for SQL Server (mssql-jdbc-6.4.0.jre8.jar) ODBC: ODBC Driver 17 for SQL Server / Data direct 7.0.1 for all unix only OLEDB: OLE DB Driver 18.3 for SQL Server	BI 2025	SQL Server 2017 Release Notes
SQL Server 2019	JDBC / ODBC / OLEDB	JDBC: JDBC Driver 8.4 for SQL Server (mssql-jdbc-8.4.1.jre8.jar) ODBC: ODBC Driver 17 for SQL Server / Data Direct 8.00 for all unix only OLEDB: OLE DB Driver 18.4 for SQL Server	BI 2025	SQL Server 2019 Release Notes
SQL Server 2022	JDBC / ODBC / OLEDB	JDBC: JDBC driver 12.2 for SQL server (mssql-jdbc-12.2.0.jre8.jar) ODBC: ODBC Driver 18 for SQL Server / Data Direct 8.00 for all unix only OLEDB: OLE DB Driver 19 for SQL Server	BI 2025	SQL Server 2022 Release Notes

Microsoft - Text Files

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
MS Text Files	ODBC	MS Text ODBC Driver	BI 2025	Only on Windows.



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
MongoDB BI Connector	JDBC	MySQL 5 JDBC 5.3.4 (not support for MySQL Connector/J version for the 6.x or later with BI connector)	BI 2025	Release Notes for MongoDB Connector for BI Support for MongoDB Databases and MongoDB Atlas
	ODBC	MongoDB BI Connector ODBC Driver v1.4.5	BI 2025	

Oracle - MySQL

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
MySQL 8	JDBC / ODBC	mysql-connector-java-8.0.12 / MySQL ODBC 8.0.12	BI 2025	MySQL 8.0 Release Notes No support for MySQL 8 ODBC on Red Hat Enterprise Linux 8
MySQL 9	JDBC	mysql-connector-java-9.1.0	BI 2025	MySQL 9 Release Notes

Oracle - Oracle Database and Exadata (*1)

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
Oracle Database 19c *3	JDBC	Oracle JDBC Version 19.3	BI 2025	Oracle Database 19c Release Notes
	ODBC(*2)	Oracle ODBC version 19.11	BI 2025	
	OCI	Oracle OCI 19.0	BI 2025	
Oracle Database 21c *3	JDBC	Oracle JDBC Version 21.6	BI 2025	Oracle Database 21c Release Notes
	ODBC	Oracle ODBC version 21.03	BI 2025	
	OCI	Oracle OCI 21.0	BI 2025	
Oracle Database 23ai *3	JDBC	Oracle JDBC Version 23.6.0	BI 2025	Oracle Database 23ai Release Notes
	ODBC	Oracle ODBC version 23.05	BI 2025	
	OCI	Oracle OCI 23.05	BI 2025	

(*1) Oracle Database / Oracle Exadata 12c & 18c are no longer supported by vendor. Please, refer to the SAP note [1174136](#).

(*2) ODBC connections are not supported for Oracle Exadata.

(*3) Exadata (OnPrem-Cloud) is supported

Oracle Cloud

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
Oracle Cloud Database Services	JDBC / ODBC / OCI	Oracle JDBC/ODBC/OCI 23ai-based drivers	BI 2025	Oracle Cloud Infrastructure

Oracle E-Business Suite

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Notes
Oracle EBS	OCI	See supported Oracle Database slide for compatibility with Oracle EBS	Support by compatibility

PostgreSQL

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
PostgreSQL 14	JDBC	PostgreSQL JDBC postgresql-42.3.3	BI 2025	PostgreSQL 14 Release Notes
	ODBC	PostgreSQL 13.02 ODBC Driver	BI 2025	
PostgreSQL 15	JDBC	PostgreSQL JDBC postgresql-42.5.4	BI 2025	PostgreSQL 15 Release Notes
	ODBC	PostgreSQL 13.02 ODBC Driver	BI 2025	
PostgreSQL 16	JDBC	PostgreSQL JDBC postgresql-42.7.5	BI 2025	PostgreSQL 16 Release Notes
	ODBC	PostgreSQL 16.00 ODBC Driver	BI 2025	

PrestoDB

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
PrestoDB (*1)	JDBC	Presto JDBC Driver (presto-jdbc-350.jar from io.prestosql foundation / presto-jdbc 0.263.jar)	BI 2025	PrestoDB Release Notes

(*1) [PrestoDB connectors](#) are supported **by reference** in SAP Business Intelligence. This means that if there are issues occurring on these connectors, customers should contact PrestoDB Support, as described in the [Data Source Support Policy statement](#)

Progress OpenEdge

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
OpenEdge 12	JDBC	OpenEdge JDBC Driver 5.1.4	BI 2025	OpenEdge 12.0 Release Notes
	ODBC	OpenEdge ODBC Driver 7.16	BI 2025	

SAP - BI Platform CMS System Database

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
BI Platform CMS System Database	BO OC	BI Platform CMS DB connector	BI 2025	

SAP - Datasphere

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
SAP Datasphere	JDBC / ODBC	HANA JDBC / ODBC Driver 2.0 SP7	BI 2025	To run with Datasphere via SQL, make sure to use version 2.4.167 (2.4.67 for the JDBC driver) or later of the SAP HANA client interfaces.

SAP - ERP

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
mySAP ERP 2004	JCO	SAP JCO 3.0.17	BI 2025	
SAP ERP 6	JCO	SAP JCO 3.0.17	BI 2025	
SAP ERP R/3	JCO	SAP JCO 3.0.17	BI 2025	Should support: R/3 Enterprise, R/3 4.0, R/3 4.6, MySAP ERP 2004.

SAP - HANA

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
SAP HANA	JDBC/ODBC	HANA JDBC / ODBC Driver 2.0 SP7	BI 2025	SAP HANA Database 2.0 Release Notes

SAP - HANA Cloud

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
SAP HANA Cloud	JDBC / ODBC	HANA JDBC / ODBC Driver 2.0 SP7	BI 2025	To run with HANA Cloud via SQL, make sure to use SAP HANA Client version 2.4.167 (or 2.4.67 for the JDBC driver) or later of the SAP HANA client interfaces.

SAP - HANA Cloud, data lake

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
SAP HANA Cloud, data lake	ODBC	HANA DATALAKE CLIENT - ODBC Driver 17.01.04	BI 2025	SAP HANA Cloud, Data Lake Documentation

SAP - MaxDB

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
SAP MaxDB	JDBC / ODBC	MaxDB JDBC / ODBC 7.9.08.23	BI 2025	

SAP Sybase - Adaptive Server Enterprise (ASE)

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
Adaptive Server Enterprise 15	JDBC	Sybase JDBC 7.07	BI 2025	SAP ASE 15 Release Notes No stored procedures support in universes.
	Sybase Open Client	Sybase Open Client 15.7	BI 2025	
Adaptive Server Enterprise 16	JDBC	Sybase JDBC Jconn4.jar	BI 2025	SAP ASE 16 Release Notes No stored procedures support in universes.
	Sybase Open Client	Sybase Open Client 16	BI 2025	

SAP Sybase - IQ

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
IQ 16.1	JDBC	Sybase JDBC jconn4.jar	BI 2025	SAP IQ 16.1 Release Notes
	ODBC	Sybase ODBC for Sybase IQ 16.1	BI 2025	

SAP Sybase - SQL Anywhere

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
SQL Anywhere 16	JDBC	Sybase JDBC Jconn4.jar	BI 2025	
	ODBC	SQL Anywhere ODBC Driver 16	BI 2025	
SQL Anywhere 17	JDBC	Sybase JDBC Jconn4.jar	BI 2025	
	ODBC	SQL Anywhere ODBC Driver 17	BI 2025	

Snowflake

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
Snowflake	JDBC	Snowflake JDBC version 3.13	BI 2025	Snowflake Release Notes
	ODBC	Snowflake ODBC version 2.22	BI 2025	

SQLite

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
SQLite	BO OC	SQLite C Library version 3.38.5	BI 2025	SQLite Documentation

Starburst Enterprise

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
Starburst Enterprise	JDBC	Use Trino JDBC connection	BI 2025	Starburst Release Notes Support by reference to Trino

Teradata Corporation

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
Teradata 17	JDBC	Teradata JDBC Driver 17.20	BI 2025	Teradata 17.20 Release Notes Support for Teradata Vantage 2.x / Teradata Database 17.20 (including 17.05 and 17.10) versions.
	ODBC	Teradata ODBC Driver 17.20	BI 2025	

Trino

Relational Semantic Layer Data Sources



Provider Name / Version	Middleware Type	Minimum Middleware Version	Supported since	Notes
Trino (*1)	JDBC	Trino JDBC Driver (trino-jdbc-395.jar)	BI 2025	Trino Release Notes

(*1) [Trino connectors](#) are supported **by reference** in SAP Business Intelligence. This means that if there are issues occurring on these connectors, customers should contact Trino Support, as described in the [Data Source Support Policy statement](#)

Deprecated Semantic Layer data sources (1/2) ^(1*)

Relational Semantic Layer Data Sources



Vendor	Database Name / Version	Middleware Type	Deprecated since	Replaced by	Notes
Cloudera	Hive and Impala in CDH 6	JDBC/ODBC	BI 2025	Hive and Impala in CDP 7	End of maintenance by vendor
Denodo	Denodo 7	JDBC	BI 2025	Denodo 8	End of maintenance by vendor
Google	Google BigQuery	BO OC	BI 2025	Google BigQuery JDBC	
Greenplum	Greenplum 5 / 6	JDBC/ODBC	BI 2025	Greenplum 7	End of maintenance by vendor
Hortonworks	Hive, Impala and Spark in HDP	JDBC/ODBC	BI 2025	Hive and Impala in CDP 7 No replacement for Spark in HDP	
HP	Vertica 11 / 12	JDBC/ODBC	BI 2025	Vertica 23	End of maintenance by vendor
Microsoft	SQL Server 2014	JDBC/ODBC/OLED B	BI 2025	SQL Server 2016	End of maintenance by vendor
MongoDB	MongoDB via Simba	JDBC/ODBC	BI 2025	MongoDB BI Connector	

(*1) Deprecated: Used to be supported in the past but not anymore; excepted if mentioned as renamed, or replaced by another version. For more details, see the [Data Source Support Policy statement](#)

Deprecated Semantic Layer data sources (2/2) ^(1*)

Relational Semantic Layer Data Sources



Vendor	Database Name / Version	Middleware Type	Deprecated since	Replaced by	Notes
Oracle	MySQL 5	JDBC/ODBC	BI 2025	MySQL 8	End of maintenance by vendor
Oracle	Oracle 12 / 18c	JDBC/ODBC/OCI	BI 2025	Oracle 19c	End of maintenance by vendor
PostgreSQL	PostgreSQL 11 / 12 / 13	JDBC/ODBC	BI 2025	PostgreSQL 14	End of maintenance by vendor
SAP	SAP HANA Vora	JDBC/ODBC	BI 2025	No replacement	
SAP	SAP Vora 1 / 2	JDBC	BI 2025	No replacement	
Teradata	Teradata 16	JDBC	BI 2025	Teradata 17	End of maintenance by vendor

(*1) Deprecated: Used to be supported in the past but not anymore; excepted if mentioned as renamed, or replaced by another version. For more details, see the [Data Source Support Policy statement](#)

OAuth support by Semantic Layer data sources



SAP Business Intelligence 2025 supports **OAuth** authentications for the following data connections via [Authorization Servers](#):

Vendor	Database Name / Version	Middleware Type	Supported since	Notes
Databricks	Databricks	JDBC	BI 2025	
Google	Google BigQuery	JDBC	BI 2025	
	Google Sheets	BO OC (SAP Implementation)	BI 2025	Only use by Web Intelligence
SAP	SAP Datasphere	BICS	BI 2025	
Snowflake	Snowflake	JDBC	BI 2025	

Semantic Layer Data Source Support Policy

Relational Semantic Layer Data Sources



Support by certification

By default, Semantic Layer data sources are tested and certified internally by SAP for given database and middleware versions set as reference versions. In issue cases, SAP provides support that is conditioned on the ability to reproduce the incident on the certification reference versions.

Support by reference or by compatibility

Some data sources, tagged as **compatible**, are not tested by SAP, but are supported by reference with a compatibility statement between middleware and database server publicly provided by the vendor. In issue cases, SAP provides support if and only if the incident is also reproducible on database and middleware versions certified by SAP. otherwise, support will be provided by the vendor.

Limited Support for Generic Standard connectivity

Developers can implement custom Semantic Layer data sources based on Generic standard connectivity such as JDBC, ODBC, OLEDB or JavaBeans. In issue cases, SAP provides support that is conditioned on the ability to reproduce the incident on the reference source: MS SQL for ODBC and OLE DB or MySQL for JDBC. On the other hand, SAP does not provide support for the universe creation or the SQL generation on the top of these custom connections based on Generic standard connectivity.

Support for deprecated data sources

Deprecated data sources are connections used to be supported in the past but not anymore; excepted if there are mentioned as renamed, or replaced by another version. When replaced by another one, SAP continues providing support that is conditioned on the ability to reproduce the incident on the certification reference of replacement versions.



Crystal Reports 2025 Data Access

Suggested way to view find needed information: select Operating system + filter on Sources for your choice of data access.

Crystal Reports 2025 - Data Sources

- Please consult the file [CR2025 Data Access](#)
- Notes:
 - Crystal Reports is offered as a 64-bit native binary. It requires 64-bit data source middleware connectivity on all operating systems.
 - Crystal Reports uses the 64-bit ODBC registry on all versions of Windows. To administer 64-bit ODBC DSNs on 64-bit versions of Windows, run the 64-bit ODBC Administrator, located here: `%windir%\System32\odbcad32.exe`



Appendix

Minimum HW and OS Patch Requirements - Windows



Minimum Screen Resolution

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

Minimum Server Hardware Requirements

For Evaluation Purposes:

CPU performance of at least 8000 SAPS

16 GB RAM minimum (at least 8GB of free memory is required to launch Promotion Management Wizard)

For Deployment & Sizing:

Please refer to the [BI4 Sizing Guide](#).

- For more information on SAPS, see the SAP Sizing portal: <https://www.sap.com/about/benchmark/measuring.html> and also the [SAP benchmarked vendor hardware list](#)
- 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.

Minimum Client Hardware Requirements

Dual Core CPU

8 GB RAM

Required Disk Space Requirements

SAP BusinessObjects BI (client installer):

BI2025 Patch Update : 8 GB

BI2025 Full Installation: 10.5 GB

SAP BusinessObjects BI (server installer):

BI2025 Patch Update : 13.5 GB

BI2025 Full Installation : 37 GB

Minimum OS Patch Requirements:

It is strongly recommended that systems are used with the latest updates and all the required components are present.

Minimum HW Requirements - Linux



Minimum Server Hardware Requirements

For Evaluation Purposes:

CPU performance of at least 8000 SAPS

For single user, 16 GB RAM minimum (at least 8GB of free memory is required to launch Promotion Management Wizard)

For Deployment & Sizing:

Please refer to the [BI4 Sizing Guide](#).

- For more information on SAPS, see the SAP Sizing portal: <https://www.sap.com/about/benchmark/measuring.html> and also the [SAP benchmarked vendor hardware list](#)
- 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.

Note: Compiled binaries of SAP BusinessObjects BI software is supported on versions of the Linux operating system running on CPUs made by AMD or Intel.

Required Disk Space Requirements

SAP BusinessObjects BI (server installer):

BI2025 Patch Update : 13.5 GB

BI2025 Full Installation : 37 GB

Supported Locales - Linux



Language	UNIX Locale
Arabic	ar_SA.utf8
Czech	cs_CZ.utf8
Danish	da_DK.utf8
Dutch	nl_NL.utf8
English	en_US.utf8
Finnish	fi_FI.utf8
French	fr_FR.utf8
German	de_DE.utf8
Hebrew	he_IL.utf-8
Hungarian	hu_HU.utf8
Italian	it_IT.utf8
Japanese	ja_JP.utf8
Kazakh	kk_KZ.utf8
Korean	ko_KR.utf8
Norwegian	no_NO.utf8
Polish	pl_PL.utf8
Portuguese	pt_BR.utf8
Romanian	ro_RO.utf8
Russian	ru_RU.utf8
Slovakian	sk_SK.utf8
Slovenian	sl_SI.utf8
Spanish	es_ES.utf8
Swedish	sv_SE.utf8
Simplified Chinese	zh_CN.utf8
Traditional Chinese	zh_TW.utf8
	zh_HK.utf8
Thai	th_TH.utf8
Turkish	tr_TR.utf8
Ukrainian	uk_UA.utf8

Glossary [1/2]



Term	Definition
AWS	Amazon Web Services.
BI	Business Intelligence.
BICS	Business Intelligence Consumer Services. BICS connectivity is a way for BI tools to connect to Business Explorer (BEx) queries on the SAP NetWeaver BW server.
CA Directory	LDAP Server Implementation for Computer Associates.
EhP	Enhancement Package: an optional package that allows customers to take advantage of ongoing business innovation while keeping the core systems stable.
EOL	End Of Life. Another term is End Of Maintenance.
FP	Feature Package: Package that delivers non-disruptive innovation for generally available product versions, also bundling software corrections and legal changes.
FPS	Feature Package Stack. FPS is similar to an SPS, but it includes non-disruptive and non-mandatory features.
GA	General Availability date: point in time when a product becomes generally available to all customers.
IDT	Information Design Tool: application to define and manage UNX universes.
KBA	Knowledge Base Article. SAP Notes and SAP Knowledge Base Articles are support documents to help users to find answers to questions arising from their daily work with SAP software products.
LDAP	Lightweight Directory Access Protocol.
LDS	Lightweight Directory Services for Active Directory. It is a LDAP directory service that provides support for directory-enabled applications, without the dependencies and domain-related restrictions of Active Directory Domain Services (AD DS).
ODSEE	Oracle Directory Server Enterprise Edition.
OEM	Original Equipment Manufacturer.

Glossary [2/2]



Term	Definition
OS	Operating System.
Release	SAP software that has a version number, is delivered at a particular point in time and has defined maintenance phases. The terms “release” and “product version” are often used as synonyms.
RHCK	Red Hat Compatible Kernel for Oracle Linux.
RHEL	Red Hat Enterprise Linux.
RTC	Release To Customer: date that marks the initial availability of software product for productive use during the controlled delivery phase.
SCN	SAP Community Network.
SLES	SUSE Linux Enterprise Server.
SP	Support Package is a bundle of software corrections available as a support package for a Java support package.
SPS	Support Package Stack is a set of support packages and patches for the respective software product version that shall be used in the given combination. Support package stacks should be seen as an entity in themselves; customers must heed the minimum requirements and dependencies between individual components and apply the support packages and patches specified in the support package stack together.
TLS	Transport Layer Security. It encrypts data sent over the Internet to ensure a better protection.
UEK	Unbreakable Enterprise Kernel for Oracle Linux.
UI	User Interface.
UNX	Relational Universe defined with Information Design Tool (IDT).

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