

# **SAP Cloud Integration for data services**

## **Product Availability Matrix (PAM)**

Last update: April 4, 2024

# SAP Cloud Integration for data services

## How to read this PAM

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The following legend applies to the subsequent slides in this document.

Descriptor <sup>(*)</sup>	Description
✓	Supported
[Version]	Support introduced since [Version]
NR since SPx Px	Not Recommended (NR) versions are not supported. SAP recommends that you use a newer certified version instead. SAP provides fixes for supported versions only, not for NR (Not Recommended) versions.
D since SPx Px	Support deprecated since the specified version. Support existed in the previous version(s), however one or more newer versions are available/certified and recommended.
-	Support does not exist.

<sup>(\*)</sup> No Data Services Agent GA (General Availability) between Patch 31 and Patch 35

# SAP Cloud Integration for data services

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## PRODUCT AVAILABILITY MATRIX

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# **SAP Cloud Integration for data services**

## **Data Services Agent Upgrade Recommendation**

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For the SAP DATA SERVICES OD Agent support, it is strongly recommended to use the most recent version. If you prefer to use an older version, it must be a version that was released within one year of the most recent release.

For example, with the Agent release of 2303 (1.0.11.5537), the version being used must not be older than 2203 (1.0.11.5148).

Reference of releases: [2324184 - SAP Cloud Integration for data services 1.0.11 release information](#)

Documentation Reference: [Upgrade Recommendations for SAP Data Services Agent](#)

# SAP Cloud Integration for data services

## Data Services Agent Supported Operating Systems

	Windows Server <sup>(*)</sup>			Linux Server <sup>(*)</sup>				
	Windows Server 2016	Windows Server 2019	Windows Server 2022	SuSE SLES 12 x86_64	SuSE SLES 15 x86_64	SuSE SLES 15 x86_64	Red Hat EL 8 x86_64	Red Hat EL 8 x86_64
				SP5	SP3	SP4	RHEL 8.6	RHEL 8.8
Data Services Agent	✓ NR as of 2311	SP11 P38	2309	SP11 P41	2209 NR as of 2311	2309	2209 NR as of 2403	2403

### Minimum Hardware Requirements \*

- 64-bit Intel or AMD CPU
- 4 processor cores with a minimum of 2 GHz and 16 GB RAM
- 50 GB free disk space

\* This is a minimum hardware requirement and needs to be adjusted based on your data loads and transformation requirements.

Note: The platform versions listed in this page have gone through formal internal testing for “direct support.” SAP will grant “compatible support” for higher incremental version releases as long as the platform vendor guarantees compatibility to the previous platform’s version that is directly supported by SAP. Please note that Major or Minor Releases of OS are not eligible for “compatible support.” For more details, please refer to the attachment (PDF) in KBA [2144559](#), “Support Policy Guide for SAP BusinessObjects Products 2010.pdf” and see the sections, “Level of Support” and “OS version identification matrix”, and Appendix 11.

(\*) Windows Server Datacenter, Enterprise, Standard and Web Edition supported.

(\*) This is a Red Hat Enterprise Linux or SuSE Minor version that SAP Cloud Integration for data services certified. Red Hat and SuSE state the installation of packages between minor releases is supported. Hence SAP Cloud Integration for data services will grant “compatible support” with other Red Hat/SuSE higher and lower minor versions within the same major version based on Red Hat’s/SuSE’s eligibility statement of minor version compatibility.

# SAP Cloud Integration for data services

## Web Browser Support

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Web Browser	Windows
Microsoft Edge	2206
Google Chrome <sup>(*1)</sup>	✓
Mozilla Firefox ESR <sup>(*1)</sup> <sup>(*2)</sup> (Firefox Extended Support Release – ESR)	✓

(<sup>\*1</sup>) The current version of Google Chrome and Mozilla Firefox ESR are supported based on testing with earlier versions of these browser versions during development. Although SAP will work to maintain compatibility with these browser versions, please be aware that issues may be introduced if and when Google or Mozilla makes significant changes to their versions between rapid-releases.

(<sup>\*2</sup>) For more information about Firefox Extended Support Releases, see <http://www.mozilla.org/en-US/firefox/organizations/faq/>

# SAP Cloud Integration for data services

## Supported Source and Target Combinations [1/2]

From (source):	To (target):								
	Files	On-Prem Databases	On-Premise Business Suite Applications	SAP HANA Service for SAP BTP, Neo	IBP	SAP HANA Cloud / SAP Datasphere / SAP HANA Service for SAP BTP, CF(HaaS)	Cloud Storage	Web Services (SOAP, Rest)	SuccessFactors Applications, oData
Files	✓	✓	-	NR since 2403	✓	✓	✓	✓	✓
On-Premise Databases <sup>(*4)</sup>	✓	✓	-		✓	✓	✓	✓	✓
On-Premise Business Suite Applications, BW <sup>(*1)</sup>	✓	-	-		✓	-	✓	✓	✓
SAP HANA Service for SAP BTP, Neo	NR since 2403				NR since 2403				
IBP	✓	✓	✓ <sup>(*1)</sup>		2209 <sup>(*5)</sup>	✓ <sup>(*3)</sup>	✓	✓	✓
SAP HANA Cloud / SAP Datasphere / SAP HANA Service for SAP BTP, CF(HaaS)	✓	-	-		✓ <sup>(*3)</sup>	✓ <sup>(*3)</sup>	✓	✓	✓
Cloud Storage (Azure)	✓	✓	✓		✓	✓	✓	✓	✓
Google BigQuery (GBQ)	-	-	-		2306 <sup>(*5) (*6)</sup>	-	-	-	-
Web Services (SOAP, Rest) <sup>(*2)</sup>	✓	✓	-		✓	✓	✓	✓	✓
SuccessFactors Applications, oData	✓	✓	-		✓	✓	✓	✓	-

Refer to next slide for footnote details.

# **SAP Cloud Integration for data services**

## **Supported Source and Target Combinations [2/2]**

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(\*1) Loading data to On-Premise Business Suite applications is possible through web services enabled on the Business Suite. For BW native loading is available through the BW Target datastore.

(\*2) In order to use a web Service as source, a file or database datastore should be used to construct the input messages, which are next passed as a function call to the web services in order to retrieve the requested data.

(\*3) To connect to SAP HANA Cloud, use HANA Database Datastore connectivity. Minimum HANA ODBC Client 2.04 or higher is required to connect to SAP HANA Cloud.

(\*4) The target support could be different for various databases as listed in the coming pages of the PAM.

(\*5) Supported only with WebSocket RFC Connection.

(\*6) Supported as source



# SAP Cloud Integration for data services

## Connectivity to Databases [1/3]

Data Source	Version	Client <sup>(*)1</sup>	Source	Target
SAP ASE	16.0 SP02 and above <sup>(*)4</sup>	Sybase Open Client 16.0	2111	-
SAP HANA	2.0 SPS05	SAP HANA Client 2.5 (ODBC) <sup>(*)3</sup> SAP HANA Client 2.11 (ODBC) <sup>(*)5</sup>	NR	NR
	2.0 SPS07	SAP HANA Client 2.12 (ODBC) SAP HANA Client 2.16 (ODBC) <sup>(*)6</sup> SAP HANA Client 2.19 (ODBC) <sup>(*)7</sup>	2309	2309

(\*)1 The appropriate client software from the database vendor needs to be installed (64-bit version) and configured on the machine where the Data Services agent is running.

(\*)2 Connectivity to SAP HANA views (attribute, analytic, and calculation) is supported.

(\*)3 HANA ODBC with SSL enabled requires a minimum HANA driver to be used. Refer to SAP Note [2947987](#).

(\*)4 SAP Cloud Integration for data services supports SAP ASE 16.0 SP02 and higher compatible SP, such as SP03, SP04, etc. based on the vendor compatibility statement.

(\*)5 HANA ODBC 2.11.0 is supported since version 2203.

(\*)6 HANA ODBC 2.16.26 is supported since version 2309.

(\*)7 HANA ODBC 2.19.20 is supported since version 2403.

# SAP Cloud Integration for data services

## Connectivity to Databases [2/3]

Data Source	Version	Client <sup>(*)1</sup>	Source	Target
SAP IQ	16.1 SP05	Sybase ODBC 11 for Adaptive Server IQ 17.0	2209	-
IBM DB2	10.5	DB2 Client 10.5	✓	✓
IBM DB2 on iSeries	7.1	DB2 connect server 11.5	2203	-
Microsoft SQL Server <sup>(*)2</sup> <sup>(*)3</sup> <sup>(*)4</sup>	2019	Microsoft ODBC Driver 17 for SQL Server (Windows) DataDirect ODBC Driver V8.0.2 or higher compatible version <sup>(*)2</sup> <sup>(*)5</sup>	SP11 P38	SP11 P38

- (\*)1 The appropriate client software from the database vendor needs to be installed (64-bit version) and configured on the machine where the Data Services agent is running.
- (\*)2 Agent installed on Linux will support connectivity to Microsoft SQL Server using DataDirect ODBC Driver. For more information, refer to the [SAP Cloud Integration for data services Agent Guide](#).
- (\*)3 Microsoft SQL Server can be on-premise, Azure PaaS and Azure VM.
- (\*)4 For Microsoft ODBC Driver version compatibility with MS SQL Server, see [vendor information](#).
- (\*)5 The support for Linux started with version 2203.

# SAP Cloud Integration for data services

## Connectivity to Databases [3/3]

Data Source	Version	Client <sup>(*)</sup>	Source	Target
Oracle	19c	Oracle Net Client 19	SP11 P38	SP11 P38
MySQL	5.6	MySQL ODBC Connector 5.6	✓	-
Teradata	15.0	Teradata ODBC 15.0	NR	NR
	15.10	Teradata ODBC 15.10	✓	✓

- (\*) The appropriate client software from the database vendor needs to be installed (64-bit version) and configured on the machine where the Data Services agent is running.
- (\*) Agent installed on Linux will support connectivity to Microsoft SQL Server using DataDirect ODBC Driver. For more information, refer to the [SAP Cloud Integration for data services Agent Guide](#).
- (\*) Microsoft SQL Server can be on-premise, Azure PaaS and Azure VM.
- (\*) For Microsoft ODBC Driver version compatibility with MS SQL Server, see [vendor information](#).
- (\*) The support for Linux started with version 2203.

# SAP Cloud Integration for data services

## Connectivity to on-premise Business Suite Applications [1/2]

Data Source <sup>(*1)(*4)(*5)(*6)</sup>	Version <sup>(*7)</sup>	Client	Source
SAP ERP <sup>(*10)</sup>	ECC 6.0 <sup>(*9)</sup>	Not Applicable	✓
	S/4HANA 1709 (up to FPS13)		✓
	S/4HANA 1809 (up to FPS11)		SP11 P36
	S/4HANA 1909 (up to FPS08)		SP11 P37
	S/4HANA 2020 (up to FPS07)		SP11 P41
	S/4HANA 2021 (up to FPS05)		2111
	S/4HANA 2022 (up to FPS02)		2211
	S/4HANA 2023		2403
SAP SCM (APO)	SCM 7.0		✓

- <sup>(\*1)</sup> SAP GUI Client: SAP GUI 7.10 is the recommended version of SAP GUI. However since SAP GUI is backwards compatible, multiple versions are supported. Please refer to [SAP Note 30460](#), which provides detailed compatibility information.
- Installing SAP GUI is optional on the agent machine, all required libraries for extracting from ECC are bundled with the agent.
- <sup>(\*2)</sup> For business content extractor support see [SAP Note 1521883](#) and [SAP Note 1931427](#) for the pre-requisites on your NetWeaver stack
- <sup>(\*3)</sup> The /BODS/ function group needs to be available on the NetWeaver/ERP/BW stack. To obtain these functions and configure the objects check the Data Services agent installer guide on <http://help.sap.com/cloudintegration> or SAP Note 1919255 - [How to obtain transport files for Data Services](#) for the latest details.
- <sup>(\*4)</sup> Writing data back to an on-premise SAP Business Suite application is possible through a web service-enabled BAPI function or RFC function modules.
- <sup>(\*5)</sup> RFC functions can be called only in transformation step, but not as a source or target in dataflow.
- <sup>(\*6)</sup> See [SAP Note 2441584](#) for minimum SAP Kernel patch requirements on your S/4 system.
- <sup>(\*7)</sup> SAP Cloud Integration for data services supports newer support patches within the same major release.
- <sup>(\*8)</sup> SAP Cloud Integration for data services provides loader support for BW/4HANA as of SP11 P41. Reader support is provided since 2109.
- <sup>(\*9)</sup> Support both Unicode and non-Unicode systems. Multi-byte processing might require special configuration or language pack to be applied on the SAP Systems.
- <sup>(\*10)</sup> SAP Cloud Integration for data services supports SAP applications such as SAP ECC, BW/4HANA, SAP S/4HANA, SAP CRM, and SAP SRM running with the supported SAP NetWeaver versions.

# SAP Cloud Integration for data services

## Connectivity to on-premise Business Suite Applications [2/2]

Data Source <sup>(*1)(*4)(*5)(*6)</sup>	Version <sup>(*7)</sup>	Client	Source
SAP NetWeaver <sup>(*2) (*3)</sup>	7.3, 7.4	Not Applicable	NR
	7.5 (up to 7.5.28)		✓
SAP BW <sup>(*10)</sup>	7.50		✓
SAP BW/4HANA <sup>(*8) (*10)</sup>	2.0 (up to SP15)	SAP GUI Client 6.20 or higher (Windows) <sup>(*1)</sup> RFC SDK 7.1 and JCO 3.0 (Linux)	2109
	2021 (up to SP07)		2206

- <sup>(\*1)</sup> SAP GUI Client: SAP GUI 7.10 is the recommended version of SAP GUI. However since SAP GUI is backwards compatible, multiple versions are supported. Please refer to [SAP Note 30460](#), which provides detailed compatibility information.
- Installing SAP GUI is optional on the agent machine, all required libraries for extracting from ECC are bundled with the agent.
- <sup>(\*2)</sup> For business content extractor support see [SAP Note 1521883](#) and [SAP Note 1931427](#) for the pre-requisites on your NetWeaver stack
- <sup>(\*3)</sup> The /BODS/ function group needs to be available on the NetWeaver/ERP/BW stack. To obtain these functions and configure the objects check the Data Services agent installer guide on <http://help.sap.com/cloudintegration> or SAP Note 1919255 - [How to obtain transport files for Data Services](#) for the latest details.
- <sup>(\*4)</sup> Writing data back to an on-premise SAP Business Suite application is possible through a web service-enabled BAPI function or RFC function modules.
- <sup>(\*5)</sup> RFC functions can be called only in transformation step, but not as a source or target in dataflow.
- <sup>(\*6)</sup> See [SAP Note 2441584](#) for minimum SAP Kernel patch requirements on your S/4 system.
- <sup>(\*7)</sup> SAP Cloud Integration for data services supports newer support patches within the same major release.
- <sup>(\*8)</sup> SAP Cloud Integration for data services provides loader support for BW/4HANA as of SP11 P41. Reader support is provided since 2109.
- <sup>(\*9)</sup> Support both Unicode and non-Unicode systems. Multi-byte processing might require special configuration or language pack to be applied on the SAP Systems.
- <sup>(\*10)</sup> SAP Cloud Integration for data services supports SAP applications such as SAP ECC, BW/4HANA, SAP S/4HANA, SAP CRM, and SAP SRM running with the supported SAP NetWeaver versions.

# SAP Cloud Integration for data services

## Connectivity to Cloud Applications

Data Source	Version	Client	Source	Target
SAP HANA Service for SAP BTP, Neo (HANA schema)	Current version	N/A	NR since 2403	
SAP HANA Cloud <sup>(*)3</sup> <sup>(*)4</sup>	2023.04 (QRC 1/2023)	HANA ODBC 2.12 HANA ODBC 2.16 HANA ODBC 2.19	SP11 P39 <sup>(*)1</sup>	SP11 P39 <sup>(*)1</sup>
SAP Datasphere	2023.11	HANA ODBC 2.12 HANA ODBC 2.16 HANA ODBC 2.19	2206	2206
SAP HANA Service for SAP BTP, CF(HaaS) <sup>(*)2</sup> <sup>(*)4</sup>	Current version	HANA ODBC 2.12 HANA ODBC 2.16 HANA ODBC 2.19	SP11 P39 <sup>(*)1</sup>	SP11 P39 <sup>(*)1</sup>
SAP Integrated Business Planning	1708 and Above	N/A	✓	✓
SuccessFactors SF API	Current version	N/A	✓	✓
Google BigQuery (GBQ)	Current version	ODBC Driver 2.4.5.1014 for BigQuery ODBC release 2.5.2.1004 ODBC release 3.0.0.1001	2306	-
MS SQL Server on Azure VM	All SQL Server supported versions	Microsoft ODBC Driver 17 for SQL Server (Windows) Microsoft ODBC Driver 18 for SQL Server (Windows) DataDirect ODBC Driver V8.0.2 (Linux)	2309	2309
Azure SQL Database (Azure PaaS)	Current version	Microsoft ODBC Driver 17 for SQL Server (Windows) Microsoft ODBC Driver 18 for SQL Server (Windows) DataDirect ODBC Driver V8.0.2 (Linux)	2309	2309

<sup>(\*)1</sup> Connectivity to SAP HANA views (attribute, analytic, and calculation) is supported.

<sup>(\*)2</sup> To connect to SAP HANA Service for SAP BTP, CF(HaaS), use HANA Database Datastore connectivity. Minimum HANA ODBC Client 2.04 or higher is required to connect to SAP HANA Service (HaaS).

<sup>(\*)3</sup> To connect to SAP HANA Cloud, use HANA Database Datastore connectivity. Minimum HANA ODBC Client 2.04 or higher is required to connect to SAP HANA Cloud.

<sup>(\*)4</sup> HANA ODBC with SSL enabled requires a minimum HANA driver to be used. Refer to SAP Note [2947987](#).

# SAP Cloud Integration for data services

## Other Connectivity

Data Source	Version	Client	Source	Target
Delimited files (e.g., csv files)	N/A	N/A	✓	✓
XML files (XSD)	1.0	N/A	✓	✓
XML files (template file)	N/A	N/A	-	✓
Web services (SOAP)	SOAP 1.1 & 1.2 / WSDL 1.1	N/A	(*1)	✓
Web services (REST)	WADL 20090831	N/A	(*2)	✓
oData	V2 (*3)	N/A	✓	✓
	V4	N/A	✓	✓

(\*1) Refer to [SOAP Web Service Documentation](#).

(\*2) Refer to [REST Web Service Documentation](#).

(\*3) oData function import certified for V2.

# SAP Cloud Integration for data services

## Big Data/Cloud Storage

Cloud Storage	Distribution	Client	Source	Target
Azure BLOB Storage	N/A	N/A	SP11 P36	SP11 P36
Azure Data Lake Storage Gen2	N/A	N/A	SP11 P36	SP11 P36



# **APPENDIX 1**

## **Deprecations**

# SAP Cloud Integration for data services

## Deprecated Data Services Agent Supported Operating Systems [1/2]

	Windows Server			Windows Desktop	
	Server 2008 x64	Server 2008 R2 x64	Windows Server 2012 R2	Windows 7 (64bit)	Windows 8 (64bit)
	SP2	SP1		SP1	
Data Services Agent	D since SP11 P38	D since SP11 P38	D since 2309	D since SP11 P38	D since SP11 P41

# SAP Cloud Integration for data services

## Deprecated Data Services Agent Supported Operating Systems [2/2]

Linux Server															
Data Services Agent	SP3	SP0	SP4		SP1	SP2			RHEL 7.6	RHEL 7.7	RHEL 7.8	RHEL 7.9	RHEL 8.1	RHEL 8.3	RHEL 8.4
	D since SP11 P38	D since SP11 P38	D since 2211	D since 2211	D since 2309	D since 2403	D since SP11 P38	D since SP11 P38	D since SP11 P42	D since 2111	D since 2111	D since 2309	D since 2111	D since 2111	D since 2403
	SuSE SLES 11 x86_64	SuSE SLES 12 x86_64	SuSE SLES 12 x86_64	SuSE SLES 15 x86_64	SuSE SLES 15 x86_64	SuSE SLES 15 x86_64	Red Hat EL 6.5 x86_64	Red Hat EL 7.0 x86_64	Red Hat EL 7 x86_64	Red Hat EL 7 x86_64	Red Hat EL 7 x86_64	Red Hat EL 7 x86_64	Red Hat EL 8 x86_64	Red Hat EL 8 x86_64	Red Hat EL 8 x86_64

# SAP Cloud Integration for data services

## Deprecated Web Browser Support

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Web Browser	Windows
Microsoft Internet Explorer 9	Deprecated since SP11 P30
Microsoft Internet Explorer 10	Deprecated since SP11 P38
Microsoft Internet Explorer 11	Deprecated since 2306

# SAP Cloud Integration for data services

## Deprecated Connectivity to Databases [1/3]

Data Source	Version	Client	Source	Target
SAP ASE	15.5	Sybase Open Client 15.5	Deprecated	
	15.7	Sybase Open Client 15.7	Deprecated since 2309	
	16.0 SP02 and above	Sybase Open Client 15.7	Deprecated since 2111	
SAP HANA	1.0 SPS 10	HANA ODBC Client 1.0 SPS 10	Deprecated	
	1.0 SPS11	HANA ODBC Client 1.0 SPS 11	Deprecated	
	1.0 SPS12	SAP HANA Client 1.0 SPS 12 (ODBC)	Deprecated since 2309	
	2.0	SAP HANA Client 2.0 (ODBC)	Deprecated since 2309	
	2.0 SPS01	SAP HANA Client 2.1 (ODBC)	Deprecated since 2309	
	2.0 SPS02	SAP HANA Client 2.2 (ODBC)	Deprecated since 2309	
	2.0 SPS03	SAP HANA Client 2.3 (ODBC)	Deprecated since 2309	
	2.0 SPS04	SAP HANA Client 2.4 (ODBC)	Deprecated since 2309	
	2.0 SPS06	SAP HANA Client 2.12 (ODBC) SAP HANA Client 2.16 (ODBC) <sup>(*6)</sup>	Deprecated since 2403	
SAP IQ	16.0	Sybase ODBC 11 for Adaptive Server IQ 16.0	Deprecated since 2111	
	16.0 SP11	Sybase ODBC 11 for Adaptive Server IQ 16.0	Deprecated since 2309	

# SAP Cloud Integration for data services

## Deprecated Connectivity to Databases [2/3]

Data Source	Version	Client	Source	Target
IBM DB2	9.7	DB2 Client 9.7	Deprecated since 2109	
IBM DB2 for Linux, Unix, Windows	9.1	DB2 Client 9.1	Deprecated	
	10.1	DB2 Client 10.1	Deprecated	
IBM DB2 on iSeries	7.1	DB2 connect 9.5	Deprecated since 2203	
Microsoft SQL Server	2005	MS SQL Server Native Client 11	Deprecated since SP11 P38	
	2008 SP2 & R2	MS SQL Server Native Client 11		
	2012	MS SQL Server Native Client 11		
	2014	MS SQL Server Native Client 11		
	2016	Microsoft ODBC Driver 13 for SQL Server (Windows) DataDirect ODBC Driver V7.1 SP2 or higher compatible version	Deprecated since 2309	
	2017	Microsoft ODBC Driver 17 for SQL Server (Windows) DataDirect ODBC Driver V7.1 SP6 or higher compatible version		

# SAP Cloud Integration for data services

## Deprecated Connectivity to Databases [3/3]

Data Source	Version	Client (*1)	Source	Target
Oracle	10g R2	Oracle Net Client 10	Deprecated since SP11 P38	
	11g R1	Oracle Net Client 11		
	11g R2	Oracle Net Client 11		
	12c R1	Oracle Net Client 12	Deprecated since 2309	
	18c	Oracle Net Client 18	Deprecated since 2309	
mySQL	5.1	MySQL ODBC Connector 5.1	Deprecated	-
	5.5	MySQL ODBC Connector 5.5	Deprecated since SP11 P38	-

# SAP Cloud Integration for data services

## Deprecated Connectivity to on-premise Business Suite Applications

Data Source	Version	Client	Source
SAP ERP	4.7 C	SAP GUI Client 6.20 or higher (Windows) RFC SDK 7.1 (Windows/Linux)	Deprecated
	ECC 5.0		Deprecated
	S/4HANA 1511	Not Applicable	Deprecated since 2403
	S/4HANA 1610	Not Applicable	Deprecated since 2403
SAP BW	7.40	Not Applicable	Deprecated since 2309



# SAP Cloud Integration for data services

## Deprecated Connectivity to Cloud Applications

Data Source	Version	Client	Source	Target
SAP Lumira Cloud	Current version	N/A	Deprecated since 2309	

# SAP Cloud Integration for data services

## Deprecated Big Data/Cloud Storage

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Cloud Storage	Distribution	Client	Source	Target
Azure Data Lake Storage Gen1	N/A	N/A	Deprecated since 2203	

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