



# Supported Operating Systems for TIBCO WebFOCUS<sup>®</sup> 8207

*July 2021*





View supported operating systems, including all supported adapters for each operating system, for TIBCO WebFOCUS® Release 8207.

**Note:** In many cases, database and operating system release level support will be provided if the database or operating system vendor product is supported by the vendor and is upwardly compatible. If a database or operating system that you are interested in is not listed here, please contact the [TIBCO Support Team](#).

This document covers the following topics:

- [AIX 7.1 and up pSeries 64bit](#)
- LINUX
  - [Linux Kernel-2.6.32-glibc-2.6 and up pSeries 64bit](#)
  - [Linux Kernel-2.6.32-glibc-2.6 and up x86 64 64bit](#)
  - [Linux Kernel-3.0.101-glibc-2.11 and up zSeries 64bit](#)
  - [Linux Kernel-3.10.0-glibc-2.17 and up ppc64le 64bit](#)
  - [Linux Kernel-3.10.0-glibc-2.17 and up x86 64 64bit](#)
- [OS400 V7R3 and up iSeries](#)
- Solaris
  - [Solaris 10 and up Sparc 64bit](#)
  - [Solaris 10 and up x86 64 64bit](#)
  - [Solaris 11 and up Sparc 64bit](#)
  - [Solaris 11 and up x86 64 64bit](#)
- [Windows x86 64 64bit](#)
- [zOS 2.2 and up zSeries 64bit](#)

## AIX 7.1 and up pSeries 64bit

Operating System	Adapter Category	Adapter Name	Adapter Release	
AIX 7.1 and up pSeries 64bit	DBMS	Adabas	6.3.1	
		LDAP	IBM (preferred) OpenLdap	
		Lotus_Notes	All Relevant	
	ERP	JD_Edwards_EnterpriseOne	All Relevant	
		Lawson	7 - 9.0	
		Microsoft_Dynamics_CRM	(Unicode Optional)	
		Oracle_Applications	All Relevant	
		PeopleSoft	All Relevant	
		Salesforce.com	(Unicode Optional)	
		SAP		4.6C - ECC 5.0, 6.x Non Unicode
				ECC 5.0, 6.x Unicode
				NetWeaver 7.x Non Unicode
				SAP S4 Hana/NetWeaver 7.x Unicode

		Siebel	7x - 8x
Files		Delimited_Files_(CSV_TAB)	All Relevant
		Excel	All Relevant
		Fixed_Format_Files	All Relevant
		Informix_CISAM	7.2.6
		Kafka	All Relevant
		MicroFocus_CISAM	All Relevant
GIS		ESRI_ArcGIS	(Unicode Optional)
OLAP		ESSBASE	11.1.2.1
		SAP_BW	3.1C - 3.5x Non Unicode
			3.50 Unicode
			NetWeaver 7.x Non Unicode
	NetWeaver 7.x/Hana MDX Unicode		
Other		Focus_FDS	All Relevant
Procedures		CICS_Transaction	All Relevant
		CICS_Transaction_for_Natural	All Relevant
		Hyperledger_Fabric	All Relevant
		IMS_Transaction	All Relevant
		IWAF	All Relevant
		Natural_Batch	All Relevant
		REST	(Unicode Optional)
		Web_Services	(Unicode Optional)
		WebFOCUS_Client_REST	(Unicode Optional)
Remote Storage		AWS_S3	(Unicode Optional)
		Google_Drive	(Unicode Optional)
SCCS		GIT	All Relevant
Search Engines		Elastic_Search	(Unicode Optional)
		Lucene_Search	All Relevant
		Solr_Search	(Unicode Optional)
Social Media		ALCHEMY	(Unicode Optional)
		Facebook	(Unicode Optional)
		Google_Analytics	(Unicode Optional)
		Google_Sheets	(Unicode Optional)
		LinkedIn	(Unicode Optional)
		Slack	(Unicode Optional)
		Twitter	(Unicode Optional)
		WAND	(Unicode Optional)
		Words_Analysis	All Relevant
SQL		Amazon_Athena	JDBC (Unicode Optional)
		Apache_Drill	(Unicode Optional)
		Apache_Hive	(Unicode Optional)
		Apache_Phoenix	(Unicode Optional)
		Apache_Spark_SQL	(Unicode Optional)
		Cloudera_Impala	(Unicode Optional)
		DB2_DB2_Warehouse	105 cli (Unicode Optional)
			11 cli (Unicode Optional)
			115 cli (Unicode Optional)
			jdbc (Unicode Optional)
		Google_BigQuery	(Unicode Optional)
Greenplum_DB	(Unicode Optional)		

	H2	(Unicode Optional)
	Hyperstage	JDBC (Unicode Optional)
	Hyperstage_(PG)	JDBC (Unicode Optional)
	IBM_i_Access	JDBC (Unicode Optional)
	Informix	SDK 3.7
		SDK 4.1 (Unicode Optional)
	Ingres	All Relevant
	JBoss	All Relevant
	JDBC	Generic
	Jethro	JDBC (Unicode Optional)
	MariaDB	(Unicode Optional)
	MongoDB	BIC (Unicode Optional)
	MS_Azure_Synapse_Analytics_(formerly_SQL_DW)	JDBC (Unicode Optional)
	MS_SQL_Server_JDBC_AzureDB	(Unicode Optional)
	MySQL	(Unicode Optional)
	Netezza	JDBC (Unicode Optional)
	Oracle	11g (Unicode Optional)
		12c (Unicode Optional)
		19c (Unicode Optional)
	Oracle_TimesTen	(Unicode Optional)
	PostgreSQL	(Unicode Optional)
	Presto	(Unicode Optional)
	PSQL	All Relevant
	SAP_Hana_DB	JDBC (Unicode Optional)
	SnappyData	(Unicode Optional)
	Snowflake	JDBC (Unicode Optional)
	SQLBase	All Relevant
	Stratio_Crossdata	JDBC (Unicode Optional)
	Sybase	ASE/IQ 15.7 OCS 15 Client (Unicode Optional)
		ASE/IQ 16.0 OCS 16 Client (Unicode Optional)
		IQ/ASE JDBC Client (Unicode Optional)
	Teradata	TTU16/15/14: CLI (Unicode Optional)
		TTU16/15/14: ODBC
		TTU16/15: ODBC wide API (Unicode Optional)
	Transoft	All Relevant
	UniData	All Relevant
	UniVerse	All Relevant
	Vertica	(Unicode Optional)
Statistics	PYTHON	Python 3.6
	Rserve	All Relevant
	RStat_Compiled_Models	All Relevant
XML Based	JSON	All Relevant
	OData	(Unicode Optional)
	SharePoint	(Unicode Optional)
	XML	All Relevant



## Linux Kernel-2.6.32-glibc-2.6 and up pSeries 64bit

Operating System	Adapter Category	Adapter Name	Adapter Release
Linux Kernel-2.6.32-glibc-2.6 and up pSeries 64bit	DBMS	LDAP	OpenLdap (preferred)
		Lotus_Notes	All Relevant
	ERP	JD_Edwards_EnterpriseOne	All Relevant
		Lawson	7 - 9.0
		Microsoft_Dynamics_CRM	(Unicode Optional)
		Oracle_Applications	All Relevant
		PeopleSoft	All Relevant
		Salesforce.com	(Unicode Optional)
		Siebel	7x - 8x
	Files	Delimited_Files_(CSV_TAB)	All Relevant
		Excel	All Relevant
		Fixed_Format_Files	All Relevant
		Kafka	All Relevant
	GIS	ESRI_ArcGIS	(Unicode Optional)
	Other	Focus_FDS	All Relevant
	Procedures	CICS_Transaction	All Relevant
		CICS_Transaction_for_Natural	All Relevant
		Hyperledger_Fabric	All Relevant
		IMS_Transaction	All Relevant
		IWAF	All Relevant
		Natural_Batch	All Relevant
		REST	(Unicode Optional)
		Web_Services	(Unicode Optional)
		WebFOCUS_Client_REST	(Unicode Optional)
	Remote Storage	AWS_S3	(Unicode Optional)
		Google_Drive	(Unicode Optional)
	SCCS	GIT	All Relevant
	Search Engines	Elastic_Search	(Unicode Optional)
		Lucene_Search	All Relevant
		Solr_Search	(Unicode Optional)
	Social Media	ALCHEMY	(Unicode Optional)
		Facebook	(Unicode Optional)
		Google_Analytics	(Unicode Optional)
		Google_Sheets	(Unicode Optional)
		LinkedIn	(Unicode Optional)
		Slack	(Unicode Optional)
		Twitter	(Unicode Optional)
		WAND	(Unicode Optional)
	Words_Analysis	All Relevant	
	SQL	Amazon_Athena	JDBC (Unicode Optional)
		Apache_Drill	(Unicode Optional)
		Apache_Hive	(Unicode Optional)
		Apache_Phoenix	(Unicode Optional)
		Apache_Spark_SQL	(Unicode Optional)
		Cache	JDBC (Unicode Optional)
	Cloudera_Impala	(Unicode Optional)	

		DB2_DB2_Warehouse	105 cli (Unicode Optional) jdbc (Unicode Optional)
		Google_BigQuery	(Unicode Optional)
		Greenplum_DB	(Unicode Optional)
		H2	(Unicode Optional)
		Hyperstage	JDBC (Unicode Optional)
		Hyperstage_(PG)	JDBC (Unicode Optional)
		IBM_i_Access	JDBC (Unicode Optional)
		Informix	SDK 4.1 (Unicode Optional)
		Ingres	All Relevant
		JBoss	All Relevant
		JDBC	Generic
		Jethro	JDBC (Unicode Optional)
		MariaDB	(Unicode Optional)
		MongoDB	BIC (Unicode Optional)
		MS_Azure_Synapse_Analytics_(formerly_SQL_DW)	JDBC (Unicode Optional)
		MS_SQL_Server_JDBC_AzureDB	(Unicode Optional)
		MySQL	(Unicode Optional)
		Netezza	JDBC (Unicode Optional)
		Oracle	11g (Unicode Optional)
		Oracle_TimesTen	(Unicode Optional)
		PostgreSQL	(Unicode Optional)
		Presto	(Unicode Optional)
		PSQL	All Relevant
		SAP_Hana_DB	JDBC (Unicode Optional)
		SnappyData	(Unicode Optional)
		Snowflake	JDBC (Unicode Optional)
		SQLBase	All Relevant
		Stratio_Crossdata	JDBC (Unicode Optional)
		Sybase	IQ/ASE JDBC Client (Unicode Optional)
		Transoft	All Relevant
		UniData	All Relevant
		Vertica	(Unicode Optional)
	Statistics	Rserve	All Relevant
		RStat_Compiled_Models	All Relevant
	XML Based	JSON	All Relevant
		OData	(Unicode Optional)
		SharePoint	(Unicode Optional)

		XML	All Relevant
--	--	-----	--------------

## Linux Kernel-2.6.32-glibc-2.6 and up x86\_64 64bit

Operating System	Adapter Category	Adapter Name	Adapter Release	
Linux Kernel-2.6.32-glibc-2.6 and up x86_64 64bit	DBMS	LDAP	OpenLdap (preferred)	
		Lotus_Notes	All Relevant	
	ERP	JD_Edwards_EnterpriseOne	All Relevant	
		Lawson	7 - 9.0	
		Microsoft_Dynamics_CRM	(Unicode Optional)	
		Oracle_Applications	All Relevant	
		PeopleSoft	All Relevant	
		Salesforce.com	(Unicode Optional)	
		SAP	4.6C - ECC 5.0, 6.x Non Unicode	
			ECC 5.0, 6.x Unicode	
			NetWeaver 7.x Non Unicode	
			SAP S4 Hana/NetWeaver 7.x Unicode	
	Siebel	7x - 8x		
	Files	Delimited_Files_(CSV_TAB)	All Relevant	
		Excel	All Relevant	
		Fixed_Format_Files	All Relevant	
		Informix_CISAM	7.2.6	
		Kafka	All Relevant	
		MicroFocus_CISAM	All Relevant	
	GIS	ESRI_ArcGIS	(Unicode Optional)	
	OLAP	ESSBASE	11.1.2.0	
			11.1.2.1	
		SAP_BW	3.1C - 3.5x Non Unicode	
			3.50 Unicode	
			NetWeaver 7.x Non Unicode	
	NetWeaver 7.x/Hana MDX Unicode			
	Other	Focus_FDS	All Relevant	
	Procedures	CICS_Transaction	All Relevant	
		CICS_Transaction_for_Natural	All Relevant	
		Hyperledger_Fabric	All Relevant	
		IMS_Transaction	All Relevant	
		IWAF	All Relevant	
		Natural_Batch	All Relevant	
		REST	(Unicode Optional)	
		Web_Services	(Unicode Optional)	
		WebFOCUS_Client_REST	(Unicode Optional)	
	Remote Storage	AWS_S3	(Unicode Optional)	
		Google_Drive	(Unicode Optional)	

	SCCS	GIT	All Relevant
	Search Engines	Elastic_Search	(Unicode Optional)
		Lucene_Search	All Relevant
		Solr_Search	(Unicode Optional)
	Social Media	ALCHEMY	(Unicode Optional)
		Facebook	(Unicode Optional)
		Google_Analytics	(Unicode Optional)
		Google_Sheets	(Unicode Optional)
		LinkedIn	(Unicode Optional)
		Slack	(Unicode Optional)
		Twitter	(Unicode Optional)
		WAND	(Unicode Optional)
		Words_Analysis	All Relevant
	SQL	1010data	All Relevant
		Amazon_Athena	JDBC (Unicode Optional)
			ODBC (Unicode Optional)
		Amazon_Redshift_ODBC	(Unicode Optional)
		Apache_Drill	(Unicode Optional)
		Apache_Hive	(Unicode Optional)
		Apache_Phoenix	(Unicode Optional)
		Apache_Spark_SQL	(Unicode Optional)
		Cache	JDBC (Unicode Optional)
			ODBC
		Cloudera_Impala	(Unicode Optional)
		DB2_DB2_Warehouse	105 cli (Unicode Optional)
			jdbc (Unicode Optional)
		Google_BigQuery	(Unicode Optional)
		Greenplum_DB	(Unicode Optional)
		H2	(Unicode Optional)
		Hyperstage	JDBC (Unicode Optional)
		Hyperstage_(PG)	JDBC (Unicode Optional)
			ODBC DataDirect (Unicode Optional)
		IBM_i_Access	JDBC (Unicode Optional)
		Informix	SDK 3.7
			SDK 4.1 (Unicode Optional)
		Ingres	All Relevant
		JBoss	All Relevant
	JDBC	Generic	
	Jethro	JDBC (Unicode Optional)	
	MariaDB	(Unicode Optional)	
	MongoDB	BIC (Unicode Optional)	
	MS_Azure_Synapse_Analytics_(formerly_SQL_DW)	JDBC (Unicode Optional)	



			ODBC (Unicode Optional)
		MS_SQL_Server_JDBC_AzureDB	(Unicode Optional)
		MS_SQL_Server_ODBC_AzureDB	(Unicode Optional)
		MySQL	(Unicode Optional)
		Netezza	JDBC (Unicode Optional)
		Oracle	11g (Unicode Optional) 12c (Unicode Optional)
		Oracle_TimesTen	(Unicode Optional)
		PostgreSQL	(Unicode Optional)
		Presto	(Unicode Optional)
		PSQL	All Relevant
		SAP_Hana_DB	JDBC (Unicode Optional)
		SnappyData	(Unicode Optional)
		Snowflake	JDBC (Unicode Optional)
			ODBC (Unicode Optional)
		SQLBase	All Relevant
		Stratio_Crossdata	JDBC (Unicode Optional)
		Sybase	ASE/IQ 15.7 OCS 15 Client (Unicode Optional)
			ASE/IQ 16.0 OCS 16 Client (Unicode Optional)
			IQ/ASE JDBC Client (Unicode Optional)
		Teradata	TTU16/15/14: CLI (Unicode Optional)
			TTU16/15/14: ODBC
			TTU16/15: ODBC wide API (Unicode Optional)
		Transoft	All Relevant
		UniData	All Relevant
		UniVerse	All Relevant
		Vertica	(Unicode Optional)
	Statistics	PYTHON	Python 3.6
		Rserve	All Relevant
		RStat_Compiled_Models	All Relevant
	XML Based	JSON	All Relevant
		OData	(Unicode Optional)
		SharePoint	(Unicode Optional)
		XML	All Relevant

## Linux Kernel-3.0.101-glibc-2.11 and up zSeries 64bit

Operating System	Adapter Category	Adapter Name	Adapter Release
Linux Kernel-3.0.101-glibc-2.11 and up zSeries 64bit	DBMS	LDAP	OpenLdap (preferred)
		Lotus_Notes	All Relevant
	ERP	JD_Edwards_EnterpriseOne	All Relevant
		Lawson	7 - 9.0
		Microsoft_Dynamics_CRM	(Unicode Optional)
		Oracle_Applications	All Relevant
		PeopleSoft	All Relevant
		Salesforce.com	(Unicode Optional)
		Siebel	7x - 8x
	Files	Delimited_Files_(CSV_TAB)	All Relevant
		Excel	All Relevant
		Fixed_Format_Files	All Relevant
		Kafka	All Relevant
	GIS	ESRI_ArcGIS	(Unicode Optional)
	Other	Focus_FDS	All Relevant
	Procedures	CICS_Transaction	All Relevant
		CICS_Transaction_for_Natural	All Relevant
		Hyperledger_Fabric	All Relevant
		IMS_Transaction	All Relevant
		IWAF	All Relevant
		Natural_Batch	All Relevant
		REST	(Unicode Optional)
		Web_Services	(Unicode Optional)
		WebFOCUS_Client_REST	(Unicode Optional)
	Remote Storage	AWS_S3	(Unicode Optional)
		Google_Drive	(Unicode Optional)
	SCCS	GIT	All Relevant
	Search Engines	Elastic_Search	(Unicode Optional)
		Lucene_Search	All Relevant
		Solr_Search	(Unicode Optional)
	Social Media	ALCHEMY	(Unicode Optional)
		Facebook	(Unicode Optional)
		Google_Analytics	(Unicode Optional)
		Google_Sheets	(Unicode Optional)
		LinkedIn	(Unicode Optional)
		Slack	(Unicode Optional)
		Twitter	(Unicode Optional)
		WAND	(Unicode Optional)
	Words_Analysis	All Relevant	
	SQL	Amazon_Athena	JDBC (Unicode Optional)
		Apache_Drill	(Unicode Optional)
		Apache_Hive	(Unicode Optional)
		Apache_Phoenix	(Unicode Optional)
		Apache_Spark_SQL	(Unicode Optional)
		Cache	JDBC (Unicode Optional)
		Cloudera_Impala	(Unicode Optional)

	DB2_DB2_Warehouse	105 cli (Unicode Optional)
		jdbc (Unicode Optional)
	Google_BigQuery	(Unicode Optional)
	Greenplum_DB	(Unicode Optional)
	H2	(Unicode Optional)
	Hyperstage	JDBC (Unicode Optional)
	Hyperstage_(PG)	JDBC (Unicode Optional)
	IBM_i_Access	JDBC (Unicode Optional)
	Ingres	All Relevant
	JBoss	All Relevant
	JDBC	Generic
	Jethro	JDBC (Unicode Optional)
	MariaDB	(Unicode Optional)
	MongoDB	BIC (Unicode Optional)
	MS_Azure_Synapse_Analytics_(formerly_SQL_DW)	JDBC (Unicode Optional)
	MS_SQL_Server_JDBC_AzureDB	(Unicode Optional)
	MySQL	(Unicode Optional)
	Netezza	JDBC (Unicode Optional)
	Oracle	12c (Unicode Optional)
	Oracle_TimesTen	(Unicode Optional)
	PostgreSQL	(Unicode Optional)
	Presto	(Unicode Optional)
	PSQL	All Relevant
	SAP_Hana_DB	JDBC (Unicode Optional)
	SnappyData	(Unicode Optional)
	Snowflake	JDBC (Unicode Optional)
	SQLBase	All Relevant
	Stratio_Crossdata	JDBC (Unicode Optional)
	Sybase	IQ/ASE JDBC Client (Unicode Optional)
	Teradata	TTU16/15/14: CLI (Unicode Optional)
		TTU16/15/14: ODBC
		TTU16/15: ODBC wide API (Unicode Optional)
	Transoft	All Relevant
	UniData	All Relevant
	Vertica	(Unicode Optional)
Statistics	Rserve	All Relevant

		RStat_Compiled_Models	All Relevant
	XML Based	JSON	All Relevant
		OData	(Unicode Optional)
		SharePoint	(Unicode Optional)
		XML	All Relevant

## Linux Kernel-3.10.0-glibc-2.17 and up ppc64le 64bit

Operating System	Adapter Category	Adapter Name	Adapter Release
Linux Kernel-3.10.0-glibc-2.17 and up ppc64le 64bit	DBMS	LDAP	OpenLdap (preferred)
		Lotus_Notes	All Relevant
	ERP	JD_Edwards_EnterpriseOne	All Relevant
		Lawson	7 - 9.0
		Microsoft_Dynamics_CRM	(Unicode Optional)
		Oracle_Applications	All Relevant
		PeopleSoft	All Relevant
		Salesforce.com	(Unicode Optional)
		Siebel	7x - 8x
	Files	Delimited_Files_(CSV_TAB)	All Relevant
		Excel	All Relevant
		Fixed_Format_Files	All Relevant
		Kafka	All Relevant
	GIS	ESRI_ArcGIS	(Unicode Optional)
	Other	Focus_FDS	All Relevant
	Procedures	CICS_Transaction	All Relevant
		CICS_Transaction_for_Natural	All Relevant
		Hyperledger_Fabric	All Relevant
		IMS_Transaction	All Relevant
		IWAF	All Relevant
		Natural_Batch	All Relevant
		REST	(Unicode Optional)
		Web_Services	(Unicode Optional)
	Remote Storage	AWS_S3	(Unicode Optional)
		Google_Drive	(Unicode Optional)
	SCCS	GIT	All Relevant
	Search Engines	Elastic_Search	(Unicode Optional)
		Lucene_Search	All Relevant
		Solr_Search	(Unicode Optional)
	Social Media	ALCHEMY	(Unicode Optional)
		Facebook	(Unicode Optional)
		Google_Analytics	(Unicode Optional)
		Google_Sheets	(Unicode Optional)
		LinkedIn	(Unicode Optional)
		Slack	(Unicode Optional)
		Twitter	(Unicode Optional)
		WAND	(Unicode Optional)
	Words_Analysis	All Relevant	

	SQL	Amazon_Athena	JDBC (Unicode Optional)
		Apache_Drill	(Unicode Optional)
		Apache_Hive	(Unicode Optional)
		Apache_Phoenix	(Unicode Optional)
		Apache_Spark_SQL	(Unicode Optional)
		Cache	JDBC (Unicode Optional)
		Cloudera_Impala	(Unicode Optional)
		DB2_DB2_Warehouse	jdbc (Unicode Optional)
		Google_BigQuery	(Unicode Optional)
		Greenplum_DB	(Unicode Optional)
		H2	(Unicode Optional)
		Hyperstage	JDBC (Unicode Optional)
		Hyperstage_(PG)	JDBC (Unicode Optional)
		IBM_i_Access	JDBC (Unicode Optional)
		Ingres	All Relevant
		JBoss	All Relevant
		JDBC	Generic
		Jethro	JDBC (Unicode Optional)
		MariaDB	(Unicode Optional)
		MongoDB	BIC (Unicode Optional)
		MS_Azure_Synapse_Analytics_(formerly_SQL_DW)	JDBC (Unicode Optional)
		MS_SQL_Server_JDBC_AzureDB	(Unicode Optional)
		MySQL	(Unicode Optional)
		Netezza	JDBC (Unicode Optional)
		Oracle	12c (Unicode Optional)
		Oracle_TimesTen	(Unicode Optional)
		PostgreSQL	(Unicode Optional)
		Presto	(Unicode Optional)
		PSQL	All Relevant
		SAP_Hana_DB	JDBC (Unicode Optional)
		SnappyData	(Unicode Optional)
		Snowflake	JDBC (Unicode Optional)
		SQLBase	All Relevant
Stratio_Crossdata	JDBC (Unicode Optional)		
Sybase	IQ/ASE JDBC Client (Unicode Optional)		
Transoft	All Relevant		
UniData	All Relevant		
Vertica	(Unicode Optional)		

	Statistics	Rserve	All Relevant
		RStat_Compiled_Models	All Relevant
	XML Based	JSON	All Relevant
		OData	(Unicode Optional)
		SharePoint	(Unicode Optional)
		XML	All Relevant

## Linux Kernel-3.10.0-glibc-2.17 and up x86\_64 64bit

Operating System	Adapter Category	Adapter Name	Adapter Release
Linux Kernel-3.10.0-glibc-2.17 and up x86_64 64bit	DBMS	LDAP	OpenLdap (preferred)
		Lotus_Notes	All Relevant
	ERP	JD_Edwards_EnterpriseOne	All Relevant
		Lawson	7 - 9.0
		Microsoft_Dynamics_CRM	(Unicode Optional)
		Oracle_Applications	All Relevant
		PeopleSoft	All Relevant
		Salesforce.com	(Unicode Optional)
		SAP	4.6C - ECC 5.0, 6.x Non Unicode
			ECC 5.0, 6.x Unicode
			NetWeaver 7.x Non Unicode
			SAP S4 Hana/NetWeaver 7.x Unicode
	Siebel	7x - 8x	
	Files	Delimited_Files_(CSV_TAB)	All Relevant
		Excel	All Relevant
		Fixed_Format_Files	All Relevant
		Informix_CISAM	7.2.6
		Kafka	All Relevant
	GIS	ESRI_ArcGIS	(Unicode Optional)
	OLAP	ESSBASE	11.1.2.4
		SAP_BW	3.1C - 3.5x Non Unicode
			3.50 Unicode
			NetWeaver 7.x Non Unicode
	NetWeaver 7.x/Hana MDX Unicode		
	Other	Focus_FDS	All Relevant
	Procedures	CICS_Transaction	All Relevant
		CICS_Transaction_for_Natural	All Relevant
		Hyperledger_Fabric	All Relevant
		IMS_Transaction	All Relevant
		IWAF	All Relevant
		Natural_Batch	All Relevant
		REST	(Unicode Optional)
		Web_Services	(Unicode Optional)
		WebFOCUS_Client_REST	(Unicode Optional)

	Remote Storage	AWS_S3	(Unicode Optional)
		Google_Drive	(Unicode Optional)
	SCCS	GIT	All Relevant
	Search Engines	Elastic_Search	(Unicode Optional)
		Lucene_Search	All Relevant
		Solr_Search	(Unicode Optional)
	Social Media	ALCHEMY	(Unicode Optional)
		Facebook	(Unicode Optional)
		Google_Analytics	(Unicode Optional)
		Google_Sheets	(Unicode Optional)
		LinkedIn	(Unicode Optional)
		Slack	(Unicode Optional)
		Twitter	(Unicode Optional)
		WAND	(Unicode Optional)
		Words_Analysis	All Relevant
	SQL	1010data	All Relevant
		Amazon_Athena	JDBC (Unicode Optional)
			ODBC (Unicode Optional)
		Amazon_Redshift_ODBC	(Unicode Optional)
		Apache_Drill	(Unicode Optional)
		Apache_Hive	(Unicode Optional)
		Apache_Phoenix	(Unicode Optional)
		Apache_Spark_SQL	(Unicode Optional)
		Cache	JDBC (Unicode Optional)
			ODBC
		Cloudera_Impala	(Unicode Optional)
		Couchbase_(Pilot)	(Unicode Optional)
		DB2_DB2_Warehouse	105 cli (Unicode Optional)
			11 cli (Unicode Optional)
			115 cli (Unicode Optional)
			jdbc (Unicode Optional)
		EXASol	(Unicode Optional)
		Google_BigQuery	(Unicode Optional)
		Greenplum_DB	(Unicode Optional)
		H2	(Unicode Optional)
		Hyperstage	JDBC (Unicode Optional)
		Hyperstage_(PG)	JDBC (Unicode Optional)
			ODBC DataDirect (Unicode Optional)
	IBM_i_Access	JDBC (Unicode Optional)	
	Informix	SDK 4.1 (Unicode Optional)	
SDK 4.5 (Unicode Optional)			

		Ingres	All Relevant
		JBoss	All Relevant
		JDBC	Generic
		Jethro	JDBC (Unicode Optional)
		MariaDB	(Unicode Optional)
		MongoDB	BIC (Unicode Optional)
		MS_Azure_Synapse_Analytics_(formerly_SQL_DW)	JDBC (Unicode Optional)
			ODBC (Unicode Optional)
		MS_SQL_Server_JDBC_AzureDB	(Unicode Optional)
		MS_SQL_Server_ODBC_AzureDB	(Unicode Optional)
		MySQL	(Unicode Optional)
		Netezza	JDBC (Unicode Optional)
		Oracle	12c (Unicode Optional)
			18c (Unicode Optional)
			19c (Unicode Optional)
		Oracle_TimesTen	(Unicode Optional)
		PostgreSQL	(Unicode Optional)
		Presto	(Unicode Optional)
		Progress	12.0 (Unicode Optional)
		PSQL	All Relevant
		SAP_Hana_DB	JDBC (Unicode Optional)
		SnappyData	(Unicode Optional)
		Snowflake	JDBC (Unicode Optional)
			ODBC (Unicode Optional)
		SQLBase	All Relevant
		Stratio_Crossdata	JDBC (Unicode Optional)
		Sybase	ASE/IQ 16.0 OCS 16 Client (Unicode Optional)
			IQ/ASE JDBC Client (Unicode Optional)
		Teradata	TTU16/15/14: CLI (Unicode Optional)
			TTU16/15/14: ODBC
			TTU16/15: ODBC wide API (Unicode Optional)
		Transoft	All Relevant
		UniData	All Relevant
		UniVerse	All Relevant
		Vertica	(Unicode Optional)
	Statistics	PYTHON	Python 3.6
		Rserve	All Relevant
		RStat_Compiled_Models	All Relevant
	XML Based	JSON	All Relevant
		OData	(Unicode Optional)



	SharePoint	(Unicode Optional)
	XML	All Relevant

## OS400 V7R3 and up iSeries

Operating System	Adapter Category	Adapter Name	Adapter Release
OS400 V7R3 and up iSeries	DBMS	LDAP	IBM (preferred)
		Lotus_Notes	All Relevant
	ERP	JD_Edwards_EnterpriseOne	All Relevant
		JD_Edwards_World	A7.x - A9.x
		Lawson	7 - 9.0
		Microsoft_Dynamics_CRM	(Unicode Optional)
		Salesforce.com	(Unicode Optional)
		Siebel	7x - 8x
	Files	DB_Heritage_Files	All Relevant
		Delimited_Files_(CSV_TAB)	All Relevant
		Excel	All Relevant
		Fixed_Format_Files	All Relevant
		Kafka	All Relevant
	GIS	ESRI_ArcGIS	(Unicode Optional)
	Other	Focus_FDS	All Relevant
	Procedures	CICS_Transaction	All Relevant
		CICS_Transaction_for_Natural	All Relevant
		Hyperledger_Fabric	All Relevant
		IMS_Transaction	All Relevant
		IWAF	All Relevant
		Natural_Batch	All Relevant
		Query_400	All Relevant
		REST	(Unicode Optional)
		Web_Services	(Unicode Optional)
	WebFOCUS_Client_REST	(Unicode Optional)	
	Remote Storage	AWS_S3	(Unicode Optional)
		Google_Drive	(Unicode Optional)
	SCCS	GIT	All Relevant
	Search Engines	Elastic_Search	(Unicode Optional)
		Lucene_Search	All Relevant
		Solr_Search	(Unicode Optional)
	Social Media	ALCHEMY	(Unicode Optional)
		Facebook	(Unicode Optional)
		Google_Analytics	(Unicode Optional)
		Google_Sheets	(Unicode Optional)
		LinkedIn	(Unicode Optional)
		Slack	(Unicode Optional)
		Twitter	(Unicode Optional)
		WAND	(Unicode Optional)
		Words_Analysis	All Relevant
	SQL	Amazon_Athena	JDBC (Unicode Optional)
		Apache_Drill	(Unicode Optional)

	Apache_Hive	(Unicode Optional)
	Apache_Phoenix	(Unicode Optional)
	Apache_Spark_SQL	(Unicode Optional)
	Cache	JDBC (Unicode Optional)
	Cloudera_Impala	(Unicode Optional)
	DB2_DB2_Warehouse	cli
		jdbc (Unicode Optional)
	Greenplum_DB	(Unicode Optional)
	H2	(Unicode Optional)
	Hyperstage	JDBC (Unicode Optional)
	Hyperstage_(PG)	JDBC (Unicode Optional)
	Ingres	All Relevant
	JBoss	All Relevant
	JDBC	Generic
	Jethro	JDBC (Unicode Optional)
	MariaDB	(Unicode Optional)
	MS_Azure_Synapse_Analytics_(formerly_SQL_DW)	JDBC (Unicode Optional)
	MS_SQL_Server_JDBC_AzureDB	(Unicode Optional)
	MySQL	(Unicode Optional)
	Netezza	JDBC (Unicode Optional)
	Oracle_TimesTen	(Unicode Optional)
	PostgreSQL	(Unicode Optional)
	Presto	(Unicode Optional)
	PSQL	All Relevant
	SAP_Hana_DB	JDBC (Unicode Optional)
	SnappyData	(Unicode Optional)
	Snowflake	JDBC (Unicode Optional)
	SQLBase	All Relevant
	Stratio_Crossdata	JDBC (Unicode Optional)
	Transoft	All Relevant
	UniData	All Relevant
	Vertica	(Unicode Optional)
	Statistics	PYTHON
		Rserve
		RStat_Compiled_Models
	XML Based	JSON
		OData
		SharePoint
		XML

## Solaris 10 and up Sparc 64bit

Operating System	Adapter Category	Adapter Name	Adapter Release	
Solaris 10 and up Sparc 64bit	DBMS	LDAP	IBM	
			Novell	
			OpenLdap	
				Sun Microsystems (preferred)
			Lotus_Notes	All Relevant
	ERP		JD_Edwards_EnterpriseOne	All Relevant
			Lawson	7 - 9.0
			Microsoft_Dynamics_CRM	(Unicode Optional)
			Oracle_Applications	All Relevant
			PeopleSoft	All Relevant
			Salesforce.com	(Unicode Optional)
			SAP	4.6C - ECC 5.0, 6.x Non Unicode
				ECC 5.0, 6.x Unicode
				NetWeaver 7.x Non Unicode
			SAP S4 Hana/NetWeaver 7.x Unicode	
			Siebel	7x - 8x
	Files		Delimited_Files_(CSV_TAB)	All Relevant
			Excel	All Relevant
			Fixed_Format_Files	All Relevant
			Informix_CISAM	7.2.6
			Kafka	All Relevant
			MicroFocus_CISAM	All Relevant
	GIS		ESRI_ArcGIS	(Unicode Optional)
	OLAP	ESSBASE		11.1.2.0
				11.1.2.1
				9.3
		SAP_BW	3.1C - 3.5x Non Unicode	
			3.50 Unicode	
			NetWeaver 7.x Non Unicode	
			NetWeaver 7.x/Hana MDX Unicode	
	Other		Focus_FDS	All Relevant
	Procedures		CICS_Transaction	All Relevant
			CICS_Transaction_for_Natural	All Relevant
			Hyperledger_Fabric	All Relevant
			IMS_Transaction	All Relevant
			IWAF	All Relevant
			Natural_Batch	All Relevant
			REST	(Unicode Optional)
			Web_Services	(Unicode Optional)
			WebFOCUS_Client_REST	(Unicode Optional)
	Remote Storage		AWS_S3	(Unicode Optional)
			Google_Drive	(Unicode Optional)
	SCCS		GIT	All Relevant

	Search Engines	Elastic_Search	(Unicode Optional)
		Lucene_Search	All Relevant
		Solr_Search	(Unicode Optional)
	Social Media	ALCHEMY	(Unicode Optional)
		Facebook	(Unicode Optional)
		Google_Analytics	(Unicode Optional)
		Google_Sheets	(Unicode Optional)
		LinkedIn	(Unicode Optional)
		Slack	(Unicode Optional)
		Twitter	(Unicode Optional)
		WAND	(Unicode Optional)
		Words_Analysis	All Relevant
	SQL	Amazon_Athena	JDBC (Unicode Optional)
		Apache_Drill	(Unicode Optional)
		Apache_Hive	(Unicode Optional)
		Apache_Phoenix	(Unicode Optional)
		Apache_Spark_SQL	(Unicode Optional)
		Cache	JDBC (Unicode Optional)
		Cloudera_Impala	(Unicode Optional)
		DB2_DB2_Warehouse	105 cli (Unicode Optional)
			jdbc (Unicode Optional)
		Google_BigQuery	(Unicode Optional)
		Greenplum_DB	(Unicode Optional)
		H2	(Unicode Optional)
		Hyperstage	JDBC (Unicode Optional)
		Hyperstage_(PG)	JDBC (Unicode Optional)
		IBM_i_Access	JDBC (Unicode Optional)
		Informix	SDK 3.7
		Ingres	All Relevant
		JBoss	All Relevant
		JDBC	Generic
		Jethro	JDBC (Unicode Optional)
		MariaDB	(Unicode Optional)
		MongoDB	BIC (Unicode Optional)
		MS_Azure_Synapse_Analytics_(formerly_SQL_DW)	JDBC (Unicode Optional)
		MS_SQL_Server_JDBC_AzureDB	(Unicode Optional)
		MySQL	(Unicode Optional)
		Netezza	JDBC (Unicode Optional)
		Nucleus_SAND	4.2 - 6.1
		Oracle	10g (Unicode Optional)
11g (Unicode Optional)			
9.2.0			
Oracle_TimesTen		(Unicode Optional)	
PostgreSQL		(Unicode Optional)	
Presto	(Unicode Optional)		
PSQL	All Relevant		
SAP_Hana_DB	JDBC (Unicode Optional)		
SnappyData	(Unicode Optional)		
Snowflake	JDBC (Unicode Optional)		
SQLBase	All Relevant		
Stratio_Crossdata	JDBC (Unicode Optional)		



		Sybase	ASE/IQ 15.7 OCS 15 Client (Unicode Optional)
			IQ/ASE JDBC Client (Unicode Optional)
		Teradata	TTU16/15/14: CLI (Unicode Optional)
			TTU16/15/14: ODBC
			TTU16/15: ODBC wide API (Unicode Optional)
		Transoft	All Relevant
		UniData	All Relevant
		Vertica	(Unicode Optional)
	Statistics	Rserve	All Relevant
		RStat_Compiled_Models	All Relevant
	XML Based	JSON	All Relevant
		OData	(Unicode Optional)
		SharePoint	(Unicode Optional)
		XML	All Relevant

## Solaris 10 and up x86\_64 64bit

Operating System	Adapter Category	Adapter Name	Adapter Release	
Solaris 10 and up x86_64 64bit	DBMS	LDAP	OpenLdap	
			Sun Microsystems (preferred)	
		Lotus_Notes	All Relevant	
	ERP	JD_Edwards_EnterpriseOne	All Relevant	
			Lawson	7 - 9.0
			Microsoft_Dynamics_CRM	(Unicode Optional)
			Oracle_Applications	All Relevant
			PeopleSoft	All Relevant
			Salesforce.com	(Unicode Optional)
			SAP	4.6C - ECC 5.0, 6.x Non Unicode
				ECC 5.0, 6.x Unicode
	NetWeaver 7.x Non Unicode			
	SAP S4 Hana/NetWeaver 7.x Unicode			
		Siebel	7x - 8x	
	Files	Delimited_Files_(CSV_TAB)	All Relevant	
			Excel	All Relevant
			Fixed_Format_Files	All Relevant
			Kafka	All Relevant
	GIS	ESRI_ArcGIS	(Unicode Optional)	
	OLAP	SAP_BW	3.1C - 3.5x Non Unicode	
			3.50 Unicode	
			NetWeaver 7.x Non Unicode	
			NetWeaver 7.x/Hana MDX Unicode	

	Other	Focus_FDS	All Relevant
	Procedures	CICS_Transaction	All Relevant
		CICS_Transaction_for_Natural	All Relevant
		Hyperledger_Fabric	All Relevant
		IMS_Transaction	All Relevant
		IWAF	All Relevant
		Natural_Batch	All Relevant
		REST	(Unicode Optional)
		Web_Services	(Unicode Optional)
		WebFOCUS_Client_REST	(Unicode Optional)
	Remote Storage	AWS_S3	(Unicode Optional)
		Google_Drive	(Unicode Optional)
	SCCS	GIT	All Relevant
	Search Engines	Elastic_Search	(Unicode Optional)
		Lucene_Search	All Relevant
		Solr_Search	(Unicode Optional)
	Social Media	ALCHEMY	(Unicode Optional)
		Facebook	(Unicode Optional)
		Google_Analytics	(Unicode Optional)
		Google_Sheets	(Unicode Optional)
		LinkedIn	(Unicode Optional)
		Slack	(Unicode Optional)
		Twitter	(Unicode Optional)
		WAND	(Unicode Optional)
		Words_Analysis	All Relevant
	SQL	Amazon_Athena	JDBC (Unicode Optional)
		Apache_Drill	(Unicode Optional)
		Apache_Hive	(Unicode Optional)
		Apache_Phoenix	(Unicode Optional)
		Apache_Spark_SQL	(Unicode Optional)
		Cache	JDBC (Unicode Optional)
		Cloudera_Impala	(Unicode Optional)
		DB2_DB2_Warehouse	jdbc (Unicode Optional)
		Google_BigQuery	(Unicode Optional)
		Greenplum_DB	(Unicode Optional)
		H2	(Unicode Optional)
		Hyperstage	JDBC (Unicode Optional)
		Hyperstage_(PG)	JDBC (Unicode Optional)
		IBM_i_Access	JDBC (Unicode Optional)
		Informix	SDK 3.7
		Ingres	All Relevant
		JBoss	All Relevant
		JDBC	Generic
		Jethro	JDBC (Unicode Optional)
		MariaDB	(Unicode Optional)
		MongoDB	BIC (Unicode Optional)
		MS_Azure_Synapse_Analytics_(formerly_SQL_DW)	JDBC (Unicode Optional)
		MS_SQL_Server_JDBC_AzureDB	(Unicode Optional)
		MySQL	(Unicode Optional)
		Netezza	JDBC (Unicode Optional)
		Oracle	10g (Unicode Optional)
			11g (Unicode Optional)

		Oracle_TimesTen	(Unicode Optional)
		PostgreSQL	(Unicode Optional)
		Presto	(Unicode Optional)
		PSQL	All Relevant
		SAP_Hana_DB	JDBC (Unicode Optional)
		SnappyData	(Unicode Optional)
		Snowflake	JDBC (Unicode Optional)
		SQLBase	All Relevant
		Stratio_Crossdata	JDBC (Unicode Optional)
		Sybase	IQ/ASE JDBC Client (Unicode Optional)
		Teradata	TTU16/15/14: CLI (Unicode Optional) TTU16/15/14: ODBC TTU16/15: ODBC wide API (Unicode Optional)
		Transoft	All Relevant
		UniData	All Relevant
		Vertica	(Unicode Optional)
	Statistics	Rserve	All Relevant
		RStat_Compiled_Models	All Relevant
	XML Based	JSON	All Relevant
		OData	(Unicode Optional)
		SharePoint	(Unicode Optional)
		XML	All Relevant

## Solaris 11 and up Sparc 64bit

Operating System	Adapter Category	Adapter Name	Adapter Release		
Solaris 11 and up Sparc 64bit	DBMS	LDAP	OpenLdap		
			Sun Microsystems (preferred)		
			Lotus_Notes	All Relevant	
	ERP		JD_Edwards_EnterpriseOne	All Relevant	
			Lawson	7 - 9.0	
			Microsoft_Dynamics_CRM	(Unicode Optional)	
			Oracle_Applications	All Relevant	
			PeopleSoft	All Relevant	
			Salesforce.com	(Unicode Optional)	
			SAP		4.6C - ECC 5.0, 6.x Non Unicode
					ECC 5.0, 6.x Unicode
					NetWeaver 7.x Non Unicode
					SAP S4 Hana/NetWeaver 7.x Unicode
			Siebel	7x - 8x	
	Files		Delimited_Files_(CSV_TAB)	All Relevant	
			Excel	All Relevant	
			Fixed_Format_Files	All Relevant	
			Informix_CISAM	7.2.6	

	Kafka	All Relevant
GIS	ESRI_ArcGIS	(Unicode Optional)
OLAP	ESSBASE	11.1.2.0
		11.1.2.1
		9.3
	SAP_BW	3.1C - 3.5x Non Unicode
		3.50 Unicode
		NetWeaver 7.x Non Unicode
	NetWeaver 7.x/Hana MDX Unicode	
Other	Focus_FDS	All Relevant
Procedures	CICS_Transaction	All Relevant
	CICS_Transaction_for_Natural	All Relevant
	Hyperledger_Fabric	All Relevant
	IMS_Transaction	All Relevant
	IWAF	All Relevant
	Natural_Batch	All Relevant
	REST	(Unicode Optional)
	Web_Services	(Unicode Optional)
	WebFOCUS_Client_REST	(Unicode Optional)
Remote Storage	AWS_S3	(Unicode Optional)
	Google_Drive	(Unicode Optional)
SCCS	GIT	All Relevant
Search Engines	Elastic_Search	(Unicode Optional)
	Lucene_Search	All Relevant
	Solr_Search	(Unicode Optional)
Social Media	ALCHEMY	(Unicode Optional)
	Facebook	(Unicode Optional)
	Google_Analytics	(Unicode Optional)
	Google_Sheets	(Unicode Optional)
	LinkedIn	(Unicode Optional)
	Slack	(Unicode Optional)
	Twitter	(Unicode Optional)
	WAND	(Unicode Optional)
	Words_Analysis	All Relevant
SQL	Amazon_Athena	JDBC (Unicode Optional)
	Apache_Drill	(Unicode Optional)
	Apache_Hive	(Unicode Optional)
	Apache_Phoenix	(Unicode Optional)
	Apache_Spark_SQL	(Unicode Optional)
	Cache	JDBC (Unicode Optional)
	Cloudera_Impala	(Unicode Optional)
	DB2_DB2_Warehouse	105 cli (Unicode Optional)
		jdbc (Unicode Optional)
	Google_BigQuery	(Unicode Optional)
	Greenplum_DB	(Unicode Optional)
	H2	(Unicode Optional)
	Hyperstage	JDBC (Unicode Optional)
	Hyperstage_(PG)	JDBC (Unicode Optional)
	IBM_i_Access	JDBC (Unicode Optional)
	Informix	SDK 3.7



			SDK 4.1 (Unicode Optional)
			SDK 4.5 (Unicode Optional)
		Ingres	All Relevant
		JBoss	All Relevant
		JDBC	Generic
		Jethro	JDBC (Unicode Optional)
		MariaDB	(Unicode Optional)
		MongoDB	BIC (Unicode Optional)
		MS_Azure_Synapse_Analytics_(formerly_SQL_DW)	JDBC (Unicode Optional)
		MS_SQL_Server_JDBC_AzureDB	(Unicode Optional)
		MySQL	(Unicode Optional)
		Netezza	JDBC (Unicode Optional)
		Oracle	11g (Unicode Optional)
			12c (Unicode Optional)
			18c (Unicode Optional)
			19c (Unicode Optional)
		Oracle_TimesTen	(Unicode Optional)
		PostgreSQL	(Unicode Optional)
		Presto	(Unicode Optional)
		Progress	11.7 (Unicode Optional)
		PSQL	All Relevant
		SAP_Hana_DB	JDBC (Unicode Optional)
		SnappyData	(Unicode Optional)
		Snowflake	JDBC (Unicode Optional)
		SQLBase	All Relevant
		Stratio_Crossdata	JDBC (Unicode Optional)
		Sybase	ASE/IQ 16.0 OCS 16 Client (Unicode Optional)
			IQ/ASE JDBC Client (Unicode Optional)
		Teradata	TTU16/15/14: CLI (Unicode Optional)
			TTU16/15/14: ODBC
			TTU16/15: ODBC wide API (Unicode Optional)
		Transoft	All Relevant
		UniData	All Relevant
		Vertica	(Unicode Optional)
	Statistics	Rserve	All Relevant
		RStat_Compiled_Models	All Relevant
	XML Based	JSON	All Relevant
		OData	(Unicode Optional)
		SharePoint	(Unicode Optional)
		XML	All Relevant

## Solaris 11 and up x86\_64 64bit

Operating System	Adapter Category	Adapter Name	Adapter Release		
Solaris 11 and up x86_64 64bit	DBMS	LDAP	OpenLdap		
			Sun Microsystems (preferred)		
		Lotus_Notes	All Relevant		
	ERP	JD_Edwards_EnterpriseOne	JD_Edwards_EnterpriseOne	All Relevant	
			Lawson	7 - 9.0	
			Microsoft_Dynamics_CRM	(Unicode Optional)	
			Oracle_Applications	All Relevant	
			PeopleSoft	All Relevant	
			Salesforce.com	(Unicode Optional)	
			SAP	SAP	4.6C - ECC 5.0, 6.x Non Unicode
					ECC 5.0, 6.x Unicode
					NetWeaver 7.x Non Unicode
					SAP S4 Hana/NetWeaver 7.x Unicode
	Siebel	7x - 8x			
	Files	Delimited_Files_(CSV_TAB)	Delimited_Files_(CSV_TAB)	All Relevant	
			Excel	All Relevant	
			Fixed_Format_Files	All Relevant	
			Kafka	All Relevant	
	GIS	ESRI_ArcGIS	(Unicode Optional)		
	OLAP	SAP_BW	SAP_BW	3.1C - 3.5x Non Unicode	
			3.50 Unicode		
			NetWeaver 7.x Non Unicode		
			NetWeaver 7.x/Hana MDX Unicode		
	Other	Focus_FDS	All Relevant		
	Procedures	CICS_Transaction	CICS_Transaction	All Relevant	
			CICS_Transaction_for_Natural	All Relevant	
			Hyperledger_Fabric	All Relevant	
			IMS_Transaction	All Relevant	
			IWAF	All Relevant	
			Natural_Batch	All Relevant	
			REST	(Unicode Optional)	
			Web_Services	(Unicode Optional)	
	WebFOCUS_Client_REST	(Unicode Optional)			
	Remote Storage	AWS_S3	AWS_S3	(Unicode Optional)	
			Google_Drive	(Unicode Optional)	
	SCCS	GIT	All Relevant		
	Search Engines	Elastic_Search	Elastic_Search	(Unicode Optional)	
			Lucene_Search	All Relevant	
			Solr_Search	(Unicode Optional)	
	Social Media	ALCHEMY	ALCHEMY	(Unicode Optional)	
			Facebook	(Unicode Optional)	
			Google_Analytics	(Unicode Optional)	
			Google_Sheets	(Unicode Optional)	

		LinkedIn	(Unicode Optional)
		Slack	(Unicode Optional)
		Twitter	(Unicode Optional)
		WAND	(Unicode Optional)
		Words_Analysis	All Relevant
	SQL	Amazon_Athena	JDBC (Unicode Optional)
		Apache_Drill	(Unicode Optional)
		Apache_Hive	(Unicode Optional)
		Apache_Phoenix	(Unicode Optional)
		Apache_Spark_SQL	(Unicode Optional)
		Cache	JDBC (Unicode Optional)
		Cloudera_Impala	(Unicode Optional)
		DB2_DB2_Warehouse	jdbc (Unicode Optional)
		Google_BigQuery	(Unicode Optional)
		Greenplum_DB	(Unicode Optional)
		H2	(Unicode Optional)
		Hyperstage	JDBC (Unicode Optional)
		Hyperstage_(PG)	JDBC (Unicode Optional)
		IBM_i_Access	JDBC (Unicode Optional)
		Informix	SDK 4.1 (Unicode Optional)
		Ingres	All Relevant
		JBoss	All Relevant
		JDBC	Generic
		Jethro	JDBC (Unicode Optional)
		MariaDB	(Unicode Optional)
		MongoDB	BIC (Unicode Optional)
		MS_Azure_Synapse_Analytics_(formerly_SQL_DW)	JDBC (Unicode Optional)
		MS_SQL_Server_JDBC_AzureDB	(Unicode Optional)
		MySQL	(Unicode Optional)
		Netezza	JDBC (Unicode Optional)
		Oracle	11g (Unicode Optional)
			12c (Unicode Optional)
			18c (Unicode Optional)
		Oracle_TimesTen	(Unicode Optional)
		PostgreSQL	(Unicode Optional)
		Presto	(Unicode Optional)
		PSQL	All Relevant
		SAP_Hana_DB	JDBC (Unicode Optional)
		SnappyData	(Unicode Optional)
		Snowflake	JDBC (Unicode Optional)
		SQLBase	All Relevant
		Stratio_Crossdata	JDBC (Unicode Optional)
		Sybase	ASE/IQ 16.0 OCS 16 Client (Unicode Optional)
			IQ/ASE JDBC Client (Unicode Optional)
		Teradata	TTU16/15/14: CLI (Unicode Optional)
			TTU16/15/14: ODBC
			TTU16/15: ODBC wide API (Unicode Optional)

		Transsoft	All Relevant
		UniData	All Relevant
		Vertica	(Unicode Optional)
	Statistics	Rserve	All Relevant
		RStat_Compiled_Models	All Relevant
	XML Based	JSON	All Relevant
		OData	(Unicode Optional)
		SharePoint	(Unicode Optional)
		XML	All Relevant

## Windows x86\_64 64bit

Operating System	Adapter Category	Adapter Name	Adapter Release	
Windows x86_64 64bit	DBMS	LDAP	Microsoft (preferred)	
		Lotus_Notes	All Relevant	
	ERP	JD_Edwards_EnterpriseOne	All Relevant	
		Lawson	7 - 9.0	
		Microsoft_Dynamics_CRM	(Unicode Optional)	
		Oracle_Applications	All Relevant	
		PeopleSoft	All Relevant	
		Salesforce.com	(Unicode Optional)	
		SAP		4.6C - ECC 5.0, 6.x Non Unicode
				ECC 5.0, 6.x Unicode
				NetWeaver 7.x Non Unicode
	SAP S4 Hana/NetWeaver 7.x Unicode			
	Siebel	7x - 8x		
	Files		Delimited_Files_(CSV_TAB)	
			Excel	
			Fixed_Format_Files	
			Kafka	
			MicroFocus_CISAM	
	GIS	ESRI_ArcGIS	(Unicode Optional)	
	OLAP	ESSBASE	11.1.2.0	
			11.1.2.3	
			11.1.2.4	
		SAP_BW		3.1C - 3.5x Non Unicode
				3.50 Unicode
				NetWeaver 7.x Non Unicode
				NetWeaver 7.x/Hana MDX Unicode
		SQL_Server_Analysis_Services	2008:2019 (Unicode Optional)	
		SSAS_Tabular_Data_Model	All Relevant	
		Other	Focus_FDS	All Relevant
	Procedures		CICS_Transaction	
			CICS_Transaction_for_Natural	
			Hyperledger_Fabric	

		IMS_Transaction	All Relevant
		IWAF	All Relevant
		Natural_Batch	All Relevant
		REST	(Unicode Optional)
		Web_Services	(Unicode Optional)
		WebFOCUS_Client_REST	(Unicode Optional)
	Remote Storage	AWS_S3	(Unicode Optional)
	Remote Storage	Google_Drive	(Unicode Optional)
	SCCS	GIT	All Relevant
	Search Engines	Elastic_Search	(Unicode Optional)
		Lucene_Search	All Relevant
		Solr_Search	(Unicode Optional)
	Social Media	ALCHEMY	(Unicode Optional)
		Facebook	(Unicode Optional)
		Google_Analytics	(Unicode Optional)
		Google_Sheets	(Unicode Optional)
		LinkedIn	(Unicode Optional)
		Slack	(Unicode Optional)
		Twitter	(Unicode Optional)
		WAND	(Unicode Optional)
		Words_Analysis	All Relevant
	SQL	1010data	All Relevant
		Amazon_Athena	JDBC (Unicode Optional) ODBC (Unicode Optional)
		Amazon_Redshift_ODBC	(Unicode Optional)
		Apache_Drill	(Unicode Optional)
		Apache_Hive	(Unicode Optional)
		Apache_Phoenix	(Unicode Optional)
		Apache_Spark_SQL	(Unicode Optional)
		Cache	JDBC (Unicode Optional) ODBC
		Cloudera_Impala	(Unicode Optional)
		Couchbase_(Pilot)	(Unicode Optional)
		DB2_DB2_Warehouse	105 cli (Unicode Optional)
			11 cli (Unicode Optional)
			jdbc (Unicode Optional)
		EXASol	(Unicode Optional)
		Excel_(via_ODBC)	All Relevant
		Google_BigQuery	(Unicode Optional)
		Greenplum_DB	(Unicode Optional)
		H2	(Unicode Optional)
		Hyperstage	JDBC (Unicode Optional)
			ODBC
		Hyperstage_(PG)	JDBC (Unicode Optional)
			ODBC DataDirect (Unicode Optional)
			ODBC PostgreSQL (Unicode Optional)
		IBM_i_Access	JDBC (Unicode Optional)
			ODBC (Unicode Optional)
		Informix	SDK 3.7
			SDK 4.1 (Unicode Optional)

		SDK 4.5 (Unicode Optional)
	Ingres	All Relevant
	JBoss	All Relevant
	JDBC	Generic
	Jethro	JDBC (Unicode Optional) ODBC (Unicode Optional)
	MariaDB	(Unicode Optional)
	MongoDB	BIC (Unicode Optional)
	MS_Access	All Relevant
	MS_Azure_Synapse_Analytics_(formerly_SQL_DW)	JDBC (Unicode Optional) ODBC (Unicode Optional)
	MS_SQL_Server_ODBC_AzureDB	(Unicode Optional)
	MS_SQL_Server_OLE_DB_AzureDB	(Unicode Optional)
	MySQL	(Unicode Optional)
	Netezza	JDBC (Unicode Optional)
	Nucleus_SAND	4.2 - 6.1
	ODBC	Generic
	Oracle	10g (Unicode Optional) 11g (Unicode Optional) 12c (Unicode Optional) 18c (Unicode Optional) 19c (Unicode Optional) Instant Client 11 (Unicode Optional)
	Oracle_TimesTen	(Unicode Optional)
	parAccel	All Relevant
	PostgreSQL	(Unicode Optional)
	Presto	(Unicode Optional)
	Progress	11.x (Unicode Optional)
	PSQL	All Relevant
	SAP_Hana_DB	JDBC (Unicode Optional) ODBC (Unicode Optional)
	SnappyData	(Unicode Optional)
	Snowflake	JDBC (Unicode Optional) ODBC (Unicode Optional)
	SQLBase	All Relevant
	Stratio_Crossdata	JDBC (Unicode Optional)
	Sybase	ASE/IQ 15.7 OCS 15 Client (Unicode Optional) ASE/IQ 16.0 OCS 16 Client (Unicode Optional) IQ/ASE JDBC Client (Unicode Optional)
	Teradata	TTU16/15/14: CLI (Unicode Optional) TTU16/15/14: ODBC TTU16/15: ODBC wide API (Unicode Optional)
	Transoft	All Relevant
	UniData	All Relevant
	Vertica	(Unicode Optional)
	Statistics	PYTHON
		Python 3.6

		Rserve	All Relevant
		RStat_Compiled_Models	All Relevant
	XML Based	JSON	All Relevant
		OData	(Unicode Optional)
		SharePoint	(Unicode Optional)
		XML	All Relevant

## zOS 2.2 and up zSeries 64bit

Operating System	Adapter Category	Adapter Name	Adapter Release
zOS 2.2 and up zSeries 64bit	DBMS	Adabas	7.x - 8.x
		Datacom_DB	12 - 15
		IDMS_DB	19
		IMS	DBCTL
		LDAP	IBM (preferred) OpenLdap
		Lotus_Notes	All Relevant
		Millennium	All Relevant
		Model_204	All Relevant
		SUPRA	All Relevant
	ERP	JD_Edwards_EnterpriseOne	All Relevant
		Lawson	7 - 9.0
		Microsoft_Dynamics_CRM	(Unicode Optional)
		Oracle_Applications	All Relevant
		Salesforce.com	(Unicode Optional)
	Files	Delimited_Files_(CSV_TAB)	All Relevant
		Excel	All Relevant
		Fixed_Format_Files	All Relevant
		Kafka	All Relevant
		VSAM	All Relevant
	GIS	ESRI_ArcGIS	(Unicode Optional)
	Other	Focus_FDS	All Relevant
	Procedures	Adabas_NAT	All Relevant
		CICS_Transaction	All Relevant
		CICS_Transaction_for_Natural	All Relevant
		Hyperledger_Fabric	All Relevant
		IMS_Transaction	All Relevant
		IWAF	All Relevant
		Natural_Batch	All Relevant
		REST	(Unicode Optional)
		Web_Services	(Unicode Optional)
	WebFOCUS_Client_REST	(Unicode Optional)	
	Remote Storage	AWS_S3	(Unicode Optional)
		Google_Drive	(Unicode Optional)
	SCCS	GIT	All Relevant
	Search Engines	Elastic_Search	(Unicode Optional)
		Lucene_Search	All Relevant
		Solr_Search	(Unicode Optional)
	Social Media	ALCHEMY	(Unicode Optional)
		Facebook	(Unicode Optional)

		Google_Analytics	(Unicode Optional)
		Google_Sheets	(Unicode Optional)
		LinkedIn	(Unicode Optional)
		Slack	(Unicode Optional)
		Twitter	(Unicode Optional)
		WAND	(Unicode Optional)
		Words_Analysis	All Relevant
	SQL	Amazon_Athena	JDBC (Unicode Optional)
		Apache_Drill	(Unicode Optional)
		Apache_Hive	(Unicode Optional)
		Apache_Spark_SQL	(Unicode Optional)
		Cache	JDBC (Unicode Optional)
		Cloudera_Impala	(Unicode Optional)
		DB2_DB2_Warehouse	11 caf
			11 cli (Unicode Optional)
			12 caf
			12 cli (Unicode Optional)
			jdbc (Unicode Optional)
		Greenplum_DB	(Unicode Optional)
		H2	(Unicode Optional)
		Hyperstage	JDBC (Unicode Optional)
		Hyperstage_(PG)	JDBC (Unicode Optional)
		IDMS_SQL	19
		Ingres	All Relevant
		JBoss	All Relevant
		JDBC	Generic
		Jethro	JDBC (Unicode Optional)
		MariaDB	(Unicode Optional)
		MS_Azure_Synapse_Analytics_(formerly_SQL_DW)	JDBC (Unicode Optional)
		MS_SQL_Server_JDBC_AzureDB	(Unicode Optional)
		MySQL	(Unicode Optional)
		Netezza	JDBC (Unicode Optional)
		Oracle_TimesTen	(Unicode Optional)
		PostgreSQL	(Unicode Optional)
		Presto	(Unicode Optional)
		PSQL	All Relevant
		SAP_Hana_DB	JDBC (Unicode Optional)
		SnappyData	(Unicode Optional)
		Snowflake	JDBC (Unicode Optional)
		SQLBase	All Relevant



		Stratio_Crossdata	JDBC (Unicode Optional)
		Transoft	All Relevant
		UniData	All Relevant
	Statistics	PYTHON	Python 3.6
		Rserve	All Relevant
		RStat_Compiled_Models	All Relevant
	XML Based	JSON	All Relevant
		OData	(Unicode Optional)
		SharePoint	(Unicode Optional)
		XML	All Relevant