

SharePlex[®] 12.3

Release Notes

Revision: 5/18/2026

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About SharePlex

For over two decades, SharePlex has provided high speed database replication for mission critical database environments.

SharePlex supports a wide variety of configurations to meet different and complex data availability needs. A primary class of use cases revolves around database scaling and availability.

- SharePlex supports reliable Oracle and PostgreSQL high-availability and disaster recovery configurations where replication maintains a duplicate database in a different location that is ready for fast, seamless fail-over and failback in planned or unplanned mode.
- SharePlex also supports bi-directional, active/active configurations with conflict resolution for PostgreSQL to PostgreSQL and Oracle to Oracle to support horizontal scaling and strategic placement of databases near regional users.
- SharePlex can support cross platform (Oracle ← → PostgreSQL) bi-directional, active-active replication with conflict resolution to de-risk Oracle to PostgreSQL migrations in complex Oracle environments.
- SharePlex can improve scaling by offloading Oracle or PostgreSQL reporting workloads.

Another class of use cases involves (generally) cross-platform data movement to support application integration, database interoperability and data lake population. Examples include:

- PostgreSQL and/or Oracle replication to Snowflake to support data warehouse/data lake pipelines
- PostgreSQL and/or Oracle replication to Kafka for real-time streaming analytic applications
- PostgreSQL to Oracle (or) Oracle to PostgreSQL replication to provide interoperability between systems to support database refactoring or migration from Oracle to PostgreSQL.

You can also use SharePlex to replicate data from Oracle source to maintain a change history database in an Oracle target. Rather than updating or deleting target rows based on the source change, SharePlex inserts a new row on the target for every source change. The result is an archive that reflects the chronological history of every change made to the source database.

SharePlex's value and versatility continue to grow with the requirements and requests of our customers. Although SharePlex is a reliable, relatively low-maintenance solution, our top-rated support team is ready around the clock to help with any trouble you may have. To get you started with your deployment, our professional services team is highly experienced and readily available.

Join our community

For expert advice and the latest news about SharePlex, join the SharePlex Community at <https://www.quest.com/community/products/shareplex>. Take advantage of our forums, blogs, videos, and more from our own experts, as well as input from our customers and partners.

Revision History

Document Version	Date	Change History
2	18 th May 2026	Removed information for RHEL 7.x.

What's New in this Release

The following new features, enhancements and platforms are supported in this release.

Feature enhancements

The following technical feature enhancements are supported in this release.

Support for large data types in custom conflict resolution (PostgreSQL to PostgreSQL)

SharePlex now supports large data types in custom conflict resolution for PostgreSQL to PostgreSQL replication. Supported data types include **CHAR (>2000)**, **VARCHAR (>4000 or unspecified length)**, **TEXT**, **JSON**, **JSONB**, and **BYTEA**.

Support for UUID data type (PostgreSQL to PostgreSQL)

SharePlex now supports the **UUID** data type for PostgreSQL-to-PostgreSQL replication.

Support for Oracle to Google Cloud Replication using Parquet File Format

SharePlex now supports replication from Oracle databases to the Google Cloud Platform using the Parquet file format.

Support for Extended Data Types in Oracle to PostgreSQL Replication

SharePlex now supports the replication of data from Oracle to PostgreSQL for the following extended data types:

- VARCHAR2 (4000-32767 bytes)
- NVARCHAR2 (4000-32767 bytes)
- RAW (2000-32767 bytes)

Support for mTLS Authentication

SharePlex now supports mutual Transport Layer Security (mTLS) authentication for Oracle and PostgreSQL databases. This enhancement enables secure, encrypted, and authenticated connections between systems, improving overall data protection and communication security.

Support for FIPS 140-3 Standard Compliance

To align with CMVP (Cryptographic Module Validation Program) guidelines and enhance data security, SharePlex now supports FIPS 140-3 standard compliance on the Linux platform. This enhancement ensures that cryptographic operations are performed using validated modules, meeting the latest FIPS 140-3 security requirements.

Platform support

The following new platform is supported in this release:

- SharePlex now supports **PostgreSQL 18** as both a source and target.
- SharePlex now supports **Microsoft SQL Server 2025** as a target for Oracle, PostgreSQL, and PGDBaaS sources.
- SharePlex now supports **Oracle 26ai** as both a source and target on the Linux platform.
- SharePlex now supports Google Cloud Platform **Infrastructure as a Service (IaaS)**.
- SharePlex now supports **Exadata** on Google Cloud Platform (Oracle Database@Google Cloud).

Resolved Issues in this Release

The following is a list of issues addressed in this release of SharePlex.

Issue ID	Issues	Source and Target	Component/ Feature
SPO-25259	The Poster process failed due to an out-of-memory error while processing large CLOB data for Oracle to Kafka.	Oracle to Kafka	Poster
SPO-25237	SharePlex caused a server lock due to a paging storm during an xsync task while executing a copy using config command in Oracle-to-PostgreSQL replication.	Oracle to PostgreSQL	Copy using config
SPO-25236	In an A > B > C non-cascading replication setup, the Poster process fails with the <code>ORA-24801: illegal parameter value in OCI LOB function</code> error when replicating CLOB data using Advanced Compression (HIGH).	Oracle to Oracle	Poster
SPO-25224	The Capture process was unable to find the archive log even though the archive log exists in archive log directory.	Oracle to Oracle	Capture
SPO-25223	SharePlex posted an invalid numeric precision value to the target during PostgreSQL logical replication.	PostgreSQL to PostgreSQL	Logical replication
SPO-25197	When SharePlex was installed using <code>sp_setup-12.2.001.exe</code> , <code>cmd.exe</code> was unable to find system commands for searching some parts of PATH.	Oracle to Oracle	sp_setup
SPO-25191	While using the Connection command to update the ASM password, the password was written in plain text to the <code>event_log</code> instead of being masked.	Oracle to Oracle	Connection
SPO-25187	Certain XML data types were being replicated with the value <code><temp/></code> .	Oracle to Oracle	XML data types
SPO-25186	Core dumps occurred while processing XML data from specific rows, and XML data in certain columns was not properly replicated to the target.	Oracle to Oracle	XML data

Deprecated Platforms and Operating Systems

The following platform has been deprecated in SharePlex 12.3 version:

RHEL 7.x

Planned platform deprecation in future releases:

No platforms are anticipated to be deprecated at this time.

Basic System Requirements

This chapter contains the basic system requirements for SharePlex. See also: [Source and Target System Requirements and Data Types](#)

System

Before installing SharePlex, ensure that your system meets the minimum hardware and software requirements.

- SharePlex processes are all 64-bit and can exceed 4 GB.
- Per process memory of greater than or equal to 256 MB is required. Depending on how you configure SharePlex, there can be one or more of the following processes on a system :
 - Capture
 - Read
 - Export
 - Import
 - Post
- See the Preinstallation Checklist in the [SharePlex Installation Guide](#) for additional system and/or database requirements.

Communications Protocols

SSL/TLS

For TLS connections, SharePlex supports TLS 1.2 or 1.3 only.

Internet protocol

SharePlex supports IPv4 and IPv6 internet protocols. The following table shows the operating systems for which SharePlex was tested with IPv6.

Operating System	Source	Target	SharePlex versions	On-premises	Cloud
Linux RHEL 8	Link-Local IPV6	Link-Local IPV6	11.0 and above	√	√
Linux RHEL 9	Link-Local IPV6	Link-Local IPV6	11.4 and above	√	√
HP UA	Link-Local IPV6	Link-Local IPV6	11.0 and above	√	√
HP IA	Link-Local IPV6	Link-Local IPV6	11.0 and above	√	√
SUN Sparc	Link-Local IPV6	Link-Local IPV6	11.0 and above	√	√
SUN Solaris	Link-Local IPV6	Link-Local IPV6	11.0 and above	√	√
AIX	Link-Local IPV6	Link-Local IPV6	11.0 and above	√	√

Interoperability Between Versions

Refer to the following guidelines if the system where you are installing SharePlex is in a configuration where one or more other systems will continue to use an older version of SharePlex. An example is when installing or upgrading SharePlex on a target, but the source will continue to use SharePlex 9.4.x/10.x.

Versions with interoperability for Oracle database as a source

The following SharePlex versions are interoperable for Oracle database as a source, including the Compare/Repair feature:

- 9.4.x
- 10.0.x
- 10.1.x
- 10.2

NOTES:

- SharePlex 10.2, as a source, and above versions are not interoperable with older versions than 10.2 as a target when using Extended Data Types and TLS 1.3.
- For the supported features of SharePlex 11.0 and above, including its version interoperability, see [SharePlex Features Interoperable with Versions 11.x and 12.3](#).

To support replication from a higher to a lower version, set the `SP_SYS_TARGET_COMPATIBILITY` parameter on the **source** system to the *lower* SharePlex version. If Capture is running, restart it.

IMPORTANT: Downgrading from a higher to a lower version of SharePlex is not supported.

NOTES:

- The older version of the `SP_SYS_TARGET_COMPATIBILITY` parameter, `SP_OCT_TARGET_COMPATIBILITY`, was deprecated in version 9.0. If your source SharePlex is currently replicating to a lower SharePlex version on the target and you have `SP_OCT_TARGET_COMPATIBILITY` set to the lower version, SharePlex will continue to use that value after you upgrade to the current version.
- If you upgrade the target to the current release at a future time, issue a reset for `SP_OCT_TARGET_COMPATIBILITY` on the source system to remove it from the SharePlex environment. Going forward, SharePlex will use the setting of the new `SP_SYS_TARGET_COMPATIBILITY` parameter, which defaults to the current version.

To reset `SP_OCT_TARGET_COMPATIBILITY`:

1. Stop Capture.
`sp_ctrl> stop capture`
2. In `sp_ctrl` on the source system, issue the following command:
`sp_ctrl>reset param SP_OCT_TARGET_COMPATIBILITY`
3. Restart Capture.
`sp_ctrl>start capture`

SharePlex Features Interoperable with Versions 11.x and 12.3

The below table provides a list of features with their SharePlex version compatibility details with supported source and target databases.

SharePlex feature	Supported source database	Supported target database	SharePlex source version	SharePlex target version
Ability to replicate PostgreSQL timestamp to Oracle Date Unidirectional replication	PostgreSQL	Oracle	SharePlex 11.0 and above	SharePlex 11.1 and above
Ability to replicate PostgreSQL timestamp to Oracle Date replication with BDR support	PostgreSQL	Oracle and PostgreSQL	SharePlex 11.1 and above	SharePlex 11.1 and above
Activate config with LSN using user provided LSN ¹	PostgreSQL	PostgreSQL, Oracle, SQL Server, Kafka, Snowflake	SharePlex 11.1 and above	SharePlex 11.1 and above
show_last_posted utility ¹	PostgreSQL	PostgreSQL	SharePlex 11.1 and above	SharePlex 11.1 and above
High Availability cluster environment with CrunchyData ¹	PostgreSQL	PostgreSQL	SharePlex 11.1 and above	SharePlex 11.0 and above
PG2O-O2PG BDR - SharePlex prepared routines - !MostRecentRecord, !LeastRecentRecord, !UpdateUsingKeyOnly, !HostPriority, !UpdateUsingKeyOnly	Oracle and PostgreSQL	Oracle and PostgreSQL	SharePlex 11.0 & Above	SharePlex 11.0 & Above
Case sensitive column names	PostgreSQL	Oracle	SharePlex 11.1 & Above	SharePlex 11.1 and above
PostgreSQL Database as a Service as source	PostgreSQL	PostgreSQL, Oracle, SQL Server, Kafka, Snowflake	SharePlex 11.1 and above	SharePlex 11.0 & Above
Trigger scripts	PostgreSQL	PostgreSQL	SharePlex 11.1 and above	SharePlex 11.1 and above
SharePlex PostgreSQL - config.sql and build_config.sql scripts	PostgreSQL	Not target dependent	SharePlex 11.1 and above	SharePlex 11.1 and above
BOOLEAN data type	PostgreSQL	PostgreSQL, Oracle, Kafka, Snowflake	SharePlex 11.1 & Above	SharePlex 11.1 & Above

SharePlex feature	Supported source database	Supported target database	SharePlex source version	SharePlex target version
TIME data type	PostgreSQL	PostgreSQL, Kafka, Snowflake	SharePlex 11.1 & Above	SharePlex 11.1 & Above
BYTEA data type	PostgreSQL	PostgreSQL, Kafka, Oracle	SharePlex 11.1 & Above	SharePlex 11.1 & Above
Column name > 30 characters ³	PostgreSQL, Oracle	PostgreSQL, Oracle, SQL Server, Kafka, Snowflake	SharePlex 11.1 and above	SharePlex 11.1 and above
Kafka Partition key	Oracle	Kafka	SharePlex 11.1 and above	SharePlex 11.1 and above
Long table name	Oracle	PostgreSQL, Oracle, SQL Server, Kafka, Snowflake	SharePlex 11.0 and above	SharePlex 11.1 and above
PostgreSQL Compression Algorithm with Physical replication ²	PostgreSQL	PostgreSQL, Oracle, SQL Server, Kafka, Snowflake	SharePlex 11.0 and above	SharePlex 11.0 and above
PostgreSQL Compression Algorithm with Logical replication ²	PostgreSQL	PostgreSQL, Oracle, SQL Server, Kafka, Snowflake	SharePlex 11.1 and above	SharePlex 11.1 and above
Compare and Repair commands	PostgreSQL	PostgreSQL	SharePlex 11.4 and above	SharePlex 11.4 and above
Docker Container	Oracle, PostgreSQL	Oracle, PostgreSQL	SharePlex 11.4 and above	SharePlex 11.4 and above
Compare and Repair commands ⁴	Oracle	PostgreSQL	SharePlex 12.0 and above	SharePlex 12.0 and above
Ignore Port	PostgreSQL	PostgreSQL	SharePlex 12.0 and above	SharePlex 12.0 and above
AVRO format ⁵	Oracle	Confluent Kafka	SharePlex 12.0 and above	SharePlex 12.0 and above
	Oracle	Apache Kafka	SharePlex 12.2.1 and above	SharePlex 12.2.1 and above

SharePlex feature	Supported source database	Supported target database	SharePlex source version	SharePlex target version
Kubernetes	PostgreSQL	PostgreSQL	SharePlex 12.0 and above	SharePlex 12.0 and above
Parquet file format for storing on AWS S3 and Azure BLOB storage ⁸	Oracle	Parquet	SharePlex 12.1 and above	SharePlex 12.1 and above
Copy/Append ⁷	Oracle	PostgreSQL, Parquet file	SharePlex 12.1 and above	SharePlex 12.1 and above
Compare and Repair commands ⁶	PostgreSQL	Oracle	SharePlex 12.1 and above	SharePlex 12.1 and above
Logs and process monitoring using SpClient utility on Windows	N/A	N/A	SharePlex 12.1 and above	SharePlex 12.1 and above
High Availability (HA) Failover with Capture auto restart	PostgreSQL	All	SharePlex 12.1 and above	SharePlex 12.1 and above
Multiple concurrent Capture Connections to the Same Remote Oracle Database	Oracle	All	SharePlex 12.2.1 and above	N/A
Oracle ADB (only for autonomous transaction processing workload) as a target	Oracle, PostgreSQL	Oracle	N/A	SharePlex 12.2.1 and above
Trigger Script support for Oracle ATP	Oracle, PostgreSQL	Oracle	SharePlex 12.2.1 and above	SharePlex 12.2.1 and above
Compare/Repair on Windows	Oracle	PostgreSQL	SharePlex 12.2.1 and above	SharePlex 12.2.1 and above
Oracle extended data types	Oracle	PostgreSQL	SharePlex 12.3 and above	SharePlex 12.3 and above
PostgreSQL CHAR >2000, VARCHAR >4000 or unspecified length, TEXT, JSON, JSONB, and BYTEA data types for custom conflict resolution procedures	PostgreSQL	PostgreSQL	SharePlex 12.3 and above	SharePlex 12.3 and above
PostgreSQL UUID data type	PostgreSQL	PostgreSQL	SharePlex 12.3 and above	SharePlex 12.3 and above
mTLS authentication	PostgreSQL, Oracle	PostgreSQL, Oracle	SharePlex 12.3 and above	SharePlex 12.3 and above

SharePlex feature	Supported source database	Supported target database	SharePlex source version	SharePlex target version
Parquet file format for storing on Google Cloud Platform	Oracle	Parquet	SharePlex 12.3 and above	SharePlex 12.3 and above
AES 256 GCM	Oracle	All	SharePlex 12.3 and above	SharePlex 12.3 and above

Conditions of Support:

1. These features are available only with PostgreSQL physical replication and not with PostgreSQL Database as a Service.

2. Types of PostgreSQL Compression Algorithm:

- pglz is supported with physical replication, where Capture receives data in compressed format and decompresses it.
- pglz and lz4 are supported with logical replication, as decompression is done by the output plugin (pgoutput), and Capture receives data in decompressed format.

3. When a table or column name exceeds 30 characters, Oracle does not log key columns for each update operation in the **Redo** log, resulting insufficient key columns for SharePlex Poster to use, leading to an Out of Sync condition at the target.

It is recommended to set `SP_OCT_USE_SUPP_KEYS = 0`, which directs SharePlex to select the appropriate set of key columns for Poster to use.

NOTE: This may cause additional overhead during the identification of key columns in the SharePlex Read process and at the target during update transactions, potentially resulting in latency at the target.

4. The **Compare and Repair** commands for Oracle-to-PostgreSQL replication are certified for use with Oracle 18c, 19c, 21c, and 23ai as well as all supported PostgreSQL platforms.

5. The **AVRO** format is supported only on the Linux operating system.

6. The **Compare and Repair** commands for PostgreSQL to Oracle are not supported on the Windows operating system. To refer to the additional conditions of support, see the **Compare and Repair** commands section in the [SharePlex Reference Guide](#).

7. To refer to the conditions of support, see the **Copy/Append** commands section in the [SharePlex Reference Guide](#).

8. Values in `TIMESTAMP WITH LOCAL TIME ZONE` columns at the Oracle source are replicated into the Parquet file without time zone conversion (unlike `TIMESTAMP WITH TIME ZONE`). If the database local time zone differs from UTC, the corresponding values in the Parquet file may appear different when fetched as UTC.

Source and Target System Requirements and Data Types

This chapter contains the requirements when capturing from various source databases and replicating to supported target databases.

Supported Source and Target Combinations

The following table provides information about the supported source and target database combinations.

Target databases	Oracle (Source)	PostgreSQL (Source)	PostgreSQL Database as a Service (Source)
Azure Event Hub	√	X	X
File Output	√	X	X
JMS	√	X	X
Kafka	√	√	√
MariaDB	√	X	X
MySQL	√	X	X
Oracle	√	√	√
PostgreSQL	√	√	√
PostgreSQL Database as a Service	√	√	√
Snowflake	√	√	√
SQL Server	√	√	√
Parquet	√	X	X

Platform Support Matrix

Oracle as source & target	All supported platforms ¹
Postgres as source	Linux
Postgres as Target	Linux, Windows
SQL Server	Linux, Windows
My SQL	Linux, Windows
SnowFlake	Linux, Windows

MariaDB	Linux
Kafka	Linux
Event Hub	Linux
JMS	All supported platforms
File	All supported platforms
Parquet	Linux

1. Refer to the [System Requirements](#) section of the respective platform for detailed platform support information.

Compatibility Across Operating Systems (Remote Collection and Posting)

If users cannot or choose not to install SharePlex directly on the source and/or target server, they can use an intermediate server where SharePlex collects data from the source and/or posts data to the target remotely. In these situations, users must consider the operating system of both the intermediate server running SharePlex and the source and/or target database platform.

Shareplex Platform	Database Platform
Oracle Linux 9.x, 8.x, and 7.x; RHEL 9.x and 8.x; Rocky Linux 8.x; SUSE SLES 12.x and 15.x; Ubuntu 22.04	AIX 7.3
	Oracle Linux 9.x, 8.x, and 7.x; RHEL 9.x and 8.x; Rocky Linux 8.x; SUSE SLES 12.x and 15.x; Ubuntu 22.04
	Sun Solaris Sparc 11.4
	Sun Solaris Intel 11.4
	Windows 2019, 2022, 2025*
AIX 7.3	AIX 7.3
Solaris Sparc 11.4	Solaris Sparc 11.4
Solaris intel 11.4	Solaris intel 11.4
Windows 2019, 2022, 2025	Windows 2019, 2022, 2025
HP-UX 11.31 Itanium	HP-UX 11.31 Itanium

* SharePlex supports only the Oracle Capture feature when replicating data remotely from Linux to Windows platforms.

NOTES:

- SharePlex supports replication to and from Oracle RDS when it is installed on any of the supported operating systems (Windows, Linux, and Unix).

- By using remote replication, database running on Solaris SPARC 11.1, 11.2, and 11.3 or Windows 2012, 2012 r2, and 2016 can leverage remote replication to capture and/or post data using SharePlex installed on Solaris SPARC 11.4, or Windows 2019, 2022, and 2025 respectively ensuring replication continues without the need for direct installation on the unsupported platform.

Feature to Operating System Support Mapping

Shareplex Features	Source Operating Systems	Target Operating Systems
Compare and Repair commands for Oracle to Oracle	Windows, Linux, Unix	Windows, Linux, Unix
Compare and Repair commands for Oracle to PostgreSQL	Windows, Linux	Windows, Linux
Compare and Repair commands for PostgreSQL to Oracle	Linux	Windows, Linux
Ignore Port	Linux	N/A
AVRO format	N/A	Linux
Parquet file format	N/A	Linux
Copy/Append for Oracle to Oracle	Windows, Linux, Unix	Windows, Linux, Unix
Copy/Append for Oracle to PostgreSQL	Windows, Linux	Windows, Linux
Copy/Append for Oracle to Parquet	Windows, Linux	Linux
Logs and process monitoring using SpClient utility	Windows	Windows
High Availability (HA) Failover with Capture auto restart	Linux	Linux
Multiple Capture Connections to the Same Remote Oracle Database	Linux	N/A
Oracle Autonomous Database (ADB) as a target	N/A	Windows, Linux, Unix
Remote Capture and Remote Poster	Windows, Linux, Unix	Windows, Linux, Unix
Nullsoft Scriptable Install System (NSIS) Installer	Windows	Windows

Compatibility matrix for supported operating system and target platform

The table below provides information about supported source and target operating systems and target database versions compatible with **Oracle as a source**. The statistics in this table apply only to on-premise platforms.

Source platforms	Target platforms										
Operating Systems	Operating Systems	Oracle	PostgreSQL	Azure Event Hubs	File Output	JMS	Kafka	MariaDB	MySQL	Snowflake	SQL Server
AIX 7.3	AIX 7.3	√	X	X	√	√	X	X	X	X	X
	Oracle Linux 9.x, 8.x, 7.x	√	√	√	√	√	√	√	√	√	√
	RHEL 9.x, 8.x	√	√	√	√	√	√	√	√	√	√
	Rocky Linux 8.x	√	√	√	√	√	√	√	√	√	√
	SUSE SLES 12.x, 15.x	√	√	√	√	√	√	√	√	√	√
	Ubuntu 22.04	√	√	√	√	√	√	√	√	√	√
HP-UX 11.31	HP-UX 11.31	√	X	X	√	√	X	X	X	X	X
Oracle Solaris SPARC 11.4	Oracle Solaris SPARC 11.4	√	X	X	√	√	X	X	X	X	X
	Oracle Linux 9.x, 8.x, 7.x	√	√	√	√	√	√	√	√	√	√

Source platforms	Target platforms										
Operating Systems	Operating Systems	Oracle	PostgreSQL	Azure Event Hubs	File Output	JMS	Kafka	MariaDB	MySQL	Snowflake	SQL Server
	RHEL 9.x, 8.x	√	√	√	√	√	√	√	√	√	√
	Rocky Linux 8.x	√	√	√	√	√	√	√	√	√	√
	SUSE SLES 12.x, 15.x	√	√	√	√	√	√	√	√	√	√
	Ubuntu 22.04	√	√	√	√	√	√	√	√	√	√
Oracle Solaris x86 11.4	Oracle Solaris x86 11.4	√	X	X	√	√	X	X	X	X	X
Windows 2025, 2022, 2019 ¹	Windows 2025, 2022, 2019	√	√	X	√	√	X	X	√	√	√
	Oracle Linux 9.x, 8.x, 7.x	√	√	√	√	√	√	√	√	√	√
	RHEL 9.x, 8.x	√	√	√	√	√	√	√	√	√	√
	Rocky Linux 8.x	√	√	√	√	√	√	√	√	√	√
	SUSE SLES 12.x, 15.x	√	√	√	√	√	√	√	√	√	√
	Ubuntu 22.04	√	√	√	√	√	√	√	√	√	√
Linux	Oracle Linux	√	√	√	√	√	√	√	√	√	√

Source platforms	Target platforms										
Operating Systems	Operating Systems	Oracle	PostgreSQL	Azure Event Hubs	File Output	JMS	Kafka	MariaDB	MySQL	Snowflake	SQL Server
	9.x, 8.x, 7.x										
	RHEL 9.x, 8.x	√	√	√	√	√	√	√	√	√	√
	SUSE SLES 12.x, 15.x	√	√	√	√	√	√	√	√	√	√
	Rocky Linux 8.x	√	√	√	√	√	√	√	√	√	√
	Ubuntu 22.04	√	√	√	√	√	√	√	√	√	√
	Windows 2025, 2022, 2019	√	√	X	√	√	X	X	√	√	√
	AIX 7.3	√	X	X	√	√	X	X	X	X	X
	Oracle Solaris x86 11.4	√	X	X	√	√	X	X	X	X	X
	Oracle Solaris SPARC 11.4	√	X	X	√	√	X	X	X	X	X

¹Unsupported features on the Windows platform:

- PostgreSQL database as a source
- AVRO file format
- MariaDB

NOTE:

- The release of the Windows platform with version 12.0 does not support in-place upgrades from older SharePlex versions due to compatibility issues. Hence, it is recommended to perform a fresh installation of SharePlex 12.0. For further details, please refer to the [SharePlex 12.0 Upgrade Guide](#).
- SharePlex supports the above operating systems and only where the version matches the specified platforms. For example, Oracle 19c supports Linux 7 and later, therefore installation of SharePlex on a system with Oracle 19c is supported only on Linux 7 and later.

Unsupported features on the Unix platform:

Heterogeneous Compare, Repair, and Copy operations are not supported on Unix platforms.

NOTE: If the database is running on a UNIX platform and users need to use the Copy, Append, Compare, or Repair commands with SharePlex for Oracle as the source and PostgreSQL as the target, they can configure the source SharePlex on Linux, which will connect to the database remotely to perform the Copy, Append, Compare, or Repair operations.

The table below provides information about supported source and target operating systems and target database versions compatible with **PostgreSQL as a source**. The statistics in this table apply only to on-premise platforms.

Source platforms	Target platforms										
Operating Systems	Operating Systems	Oracle	PostgreSQL	Azure Event Hub	File Output	JMS	Kafka	MariaDB	MySQL	Snowflake	SQL Server
Linux	Oracle Linux 9.x, 8.x, 7.x	√	√	X	X	X	√	X	X	√	√
	RHEL 9.x, 8.x	√	√	X	X	X	√	X	X	√	√
	SUSE SLES 12.x, 15.x	√	√	X	X	X	√	X	X	√	√
	Rocky Linux 8.x	√	√	X	X	X	√	X	X	√	√
	Ubuntu 22.04	√	√	X	X	X	√	X	X	√	√
	Windows 2025, 2022, 2019	√	√	X	X	X	X	X	X	√	√
	AIX 7.3	√	X	X	√	√	X	X	X	X	X
	Oracle Solaris x86 11.4	√	X	X	√	√	X	X	X	X	X
	Oracle Solaris SPARC 11.4	√	X	X	√	√	X	X	X	X	X

NOTES:

- For detailed information about the supported source and target database versions, refer to the respective subsections under the [Source and Target System Requirements and Data Types](#) section.
- SharePlex supports only the 64-bit version of the listed operating systems.

System Requirements and Conditions of Support When Replicating from Oracle

This chapter contains the requirements when capturing from an Oracle database and replicating to supported target databases.

PRE-REQUISITE: At least the minimum level of supplemental logging must be enabled. Some SharePlex features may require PK/UK supplemental logging to be enabled.

Oracle source basics

This section contains the requirements for an Oracle database as a source when capturing from an Oracle database and replicating to supported target databases.

Supported operating systems

For information regarding supported source and target operating systems with specific database versions, see the [Compatibility Matrix for Supported Operating Systems and Target Platforms](#) section.

Supported versions

- Standard and Enterprise Editions of Oracle 12cR1, 12cR2, 18c, 19c, 21c, 23ai*, and 26ai*
- Oracle ADB for autonomous transaction processing database 19c.

NOTES:

- Unless specified, Oracle, RAC, and ASM are supported for the same versions.
- In addition to the supported operating systems for Oracle and the supported cloud platforms for Oracle, the Oracle versions listed above are also supported when running on an on-premises Oracle Exadata Database Machine. Any issues reported on an on-premises Oracle Exadata Database Machine will be tested against Oracle Exadata Cloud Service for reproduction purposes.
- Amazon RDS for Oracle 12cR1 (supported 12cR1 versions are 12.1.0.2.v7 or later) and 19c. Support for Oracle features on Amazon RDS is limited to the default option groups: `default:oracle-ee-12-1`, `default:oracle-ee-19`, and `default:oracle-se2-19`.
- On **Windows** Server, Oracle 19c versions below 19.6 have an Oracle bug (29865658) that causes the SharePlex **ora_setup**, **Reader**, and **Poster** processes to get stuck. This bug is fixed in version 19.6 and later. To avoid this issue with SharePlex, either upgrade the Oracle 19c database to version 19.6 or higher. Users need to contact Oracle to obtain a patch for bug **29865658** or set the `CLIENT_STATISTICS_LEVEL` database parameter to 'OFF'.

Steps to update the `CLIENT_STATISTICS_LEVEL` Database Parameter

1. To see the current value of `CLIENT_STATISTICS_LEVEL`, use the following command:

```
SQL> SHOW PARAMETER CLIENT_STATISTICS_LEVEL;
```

2. If the current value is set to **TYPICAL**, update it to **OFF** using the following command:

```
SQL> ALTER SYSTEM SET CLIENT_STATISTICS_LEVEL = 'OFF' SCOPE=SPFILE;
```

3. To apply the change, restart the database by executing the following commands:

```
SQL> SHUTDOWN IMMEDIATE;
```

```
SQL> STARTUP;
```

*Conditions of Support:

- Oracle 23ai has been renamed to 26ai and includes additional features. Oracle 23ai is no longer available for new installations. However, SharePlex continues to support Oracle 23ai for customers who have already installed it.
- Oracle 23ai is supported on **DBCS**, **ExaCS/ExaCC**, and **Oracle on-premises Exadata** platforms.
- On Oracle 23ai, the **Copy/Append** command is not supported with encrypted tablespaces.
- Oracle 26ai is supported only on the Linux platform.
- Oracle 26ai is supported on **OCI-DBCS** and on the **Oracle Exadata Dedicated Infrastructure** platform.
- Cloud platforms such as **Oracle Database@AWS**, **Oracle Database@Azure**, and **Oracle Database@GCP** are not supported with Oracle 26ai.
- In 23ai and 26ai, when creating a table with an XMLType column, it is created with a default storage type of **TRANSPORTABLE BINARY XML**. To enable SharePlex support, change the XMLType column's storage type to **BINARY XML**.
- For CDB or PDB users with a 23ai or 26ai database using the 23ai or 26ai Oracle client, when **SP_OCT_OLOG_USE_OCI** is set to 1 on either local or remote Capture, provide the following grants to the SharePlex user from `CDB$ROOT`:

CDB container user:

```
GRANT SELECT, UPDATE ON sys.dir$ to <shareplex database user name>  
container=ALL;
```

```
GRANT SELECT, UPDATE ON sys.obj$ to <shareplex database user name>  
container=ALL;
```

PDB container user:

```
GRANT SELECT, UPDATE ON sys.dir$ to <shareplex database user name>  
container=CURRENT;
```

```
GRANT SELECT, UPDATE ON sys.obj$ to <shareplex database user name>  
container=CURRENT;
```

Supported cloud platforms

Oracle Cloud Infrastructure

- Oracle Exadata Cloud Service (ExaCS)¹
- Oracle Exadata Cloud@Customer (ExaCC)¹
- Oracle Database Cloud Service (DBCS)²
 - Enterprise Standard Edition
 - Enterprise Edition High Performance
 - Enterprise Edition Extreme Performance
- Oracle Compute (IaaS) Virtual Machines and Bare Metal

Amazon Web Services

- Amazon RDS for Oracle³
- Amazon EC2 (IaaS) Virtual Machine
- Oracle Database@AWS

Microsoft Azure

- Azure Virtual Machine (IaaS)
- Oracle Database@Azure

Google Cloud Platform:

- Google Cloud Virtual machine (IaaS)
- Oracle Database@GCP

Conditions of support

1. **Oracle Exadata:** Issues on Oracle Exadata will be tested against Oracle Exadata Cloud Service for reproduction purposes.
2. **Oracle Database Cloud Service (DBCS):** SharePlex only supports Transparent Data Encryption (TDE) feature on DBCS EE-HP, DBCS EE-EP, and ExaCS/CC.
3. **Amazon RDS for Oracle:** Please see [Supported Oracle Source and Target Versions](#) for additional clarification on version compatibility.

Oracle source basic conditions of support

Non-supported Oracle features

This is a list of commonly used Oracle features which SharePlex does not replicate and are not listed elsewhere in this document. Since both Oracle and SharePlex continually change and improve, this list of exclusions cannot be considered complete. Unless an item is stated here as being supported, assume that SharePlex does not replicate it.

Object/operation/feature	Not supported
Oracle operations	Operations that do not appear in the redo logs. This includes any DML or DDL not in the redo logs, and also PL/SQL packages which do not write results to the redo logs, for example, dbms_shared_pool.keep and related packages.
dbms_scheduler.create_job	This object is not supported.
Flashback	SharePlex does not support the Oracle Flashback Table feature. If the SP_REPLICATE_ALL_DDL parameter is enabled (value of 1), SharePlex may try to replicate the flashback DDL, which will return an error. To perform Flashback Table on a table that is in replication, use the following procedures in the SharePlex Administrator Guide to work around this issue: <ol style="list-style-type: none"> 1. Remove source objects from replication 2. Perform the flashback 3. Add or change objects in an active configuration
Special characters	<ul style="list-style-type: none"> • SharePlex currently does not support the use of a dot (.) in Oracle schema names or in Oracle objects such as , sequences, tables, columns, materialized views, synonyms, users, and other related objects. • If a quoted username (Oracle allows quoted identifier names) is used during Ora_setup, the setup process will fail, and subsequent configuration activation will also fail.

Additional information about data types

Notes about open target data type support

- Replication of SecureFile LOBS to non-Oracle databases is supported except if the storage specification includes any level of compression, encryption, and/or deduplication.
- Replication of LOB operations generated by **dbms_job** are not supported when replicating to non-Oracle targets.
- SharePlex applies replicated Oracle data to the target according to the data type of the target column, rather than mapping to a default data type. Corresponding source and target columns must contain compatible data types to ensure successful DML operations.
- If the precision or size of the target data type is not large enough for the data being replicated, the target database may truncate or round the data when SharePlex applies it.

SharePlex supports replication of the following extended data types from Oracle to Oracle or PostgreSQL. Other open targets are not supported:

- VARCHAR2 (4000-32767 bytes)
- NVARCHAR2 (4000-32767 bytes)
- RAW (2000-32767 bytes)

NOTE: SharePlex does not support the use of extended character sets/encodings (e.g., JA16EUCEXT).

The `errlog.sql` file logs column values only for basic data types and does not support logging for Large Object (LOB) or advanced or extended data types.

Logging is not supported for the following Large Object data types:

BLOB, CLOB, NCLOB, BFILE

Supported / non-supported SharePlex features for Oracle to open targets replication

The following table shows whether specific SharePlex features are supported for replication from Oracle to open targets.

SharePlex feature	Supported open targets
Reconcile command (target instantiation)	All
Compare/Compare Using and Repair/Repair Using commands ¹	PostgreSQL
Copy/Copy Using and Append/Append Using commands	PostgreSQL Parquet file ²
Hash horizontally partitioned replication	All
Column-based horizontally partitioned replication	All
Vertically partitioned replication	All
Column mapping	All
Key definition	All
Build configuration with scripts	Not supported
Named queues	All
Commit Reduction (feature of Post Enhanced Performance)	All
Dependency Checking (feature of Post Enhanced Performance)	Not supported
Transformation	Not supported
Conflict resolution	PostgreSQL
Peer-to-peer replication (bi-directional)	PostgreSQL
Consolidated replication (many to one)	All
Broadcast replication (one to many)	All
High availability replication (active/passive bi-directional)	PostgreSQL
Change tracking target (CDC)	Not supported
Data encryption	All
Data compression	All
SSH	All
auth_hosts file	All

SharePlex feature	Supported open targets
Monitoring scripts	All
SNMP monitoring	All
Continue posting on error (SP_OPX_CONT_ON_ERR)	All
Suspend on out of sync errors (SP_OPX_OUT_OF_SYNC_SUSPEND)	All
Reduced key (SP_OPX_REDUCED_KEY)	All
Logical Transaction Rollback on out-of-sync transactions	Not supported
HSM: Oracle database wallet key store on external storage using <code>sp_hsm</code> utility	All

1 The Compare and Repair commands for Oracle to PostgreSQL replication are certified for use with Oracle 18c, 19c, 21c, 23ai, and 26ai.

2 Append command is not supported for Parquet file.

System requirements for replication of OLTP compressed data

This chapter contains the requirements when capturing OLTP compressed data from an Oracle source database and replicating it to a supported target database.

Supported operating systems

The following operating systems are supported for capture from a supported Oracle database and replication to a supported target database.

SharePlex supports only the 64-bit version of the listed operating systems.

For OLTP, SharePlex supports the following operating systems only:

- AIX 7.3
- HP-UX 11.31 Itanium
- Oracle Linux 7.x, 8.x, and 9.x
- Oracle Solaris SPARC 11.4
- RHEL 8.x and 9.x
- Rocky Linux 8.x
- SuSE SLES 12.x and 15.x
- Windows Server 2019, 2022, and 2025

Supported Oracle database version/s

SharePlex supports the Standard and Enterprise Editions of Oracle 12cR1, 12cR2, 18c, 19c, and 21c for replicating the OLTP compressed data.

Supported objects and operations for DML replication

SharePlex supports DML operations on tables and sequences, with some conditions. DML can be replicated from an Oracle source to an Oracle or an open target.

NOTE: Replication to targets with a different character set is supported, with limitations. When posting to open target databases, XML files and JMS, SharePlex supports only UNICODE and US7ASCII on the target, but conversion can be performed by an Oracle client installed on the target system. Parquet supports only the UTF-8 character set. For full details, see the Preinstallation Checklist in the [SharePlex Installation and Setup Guide](#).

Tables

SharePlex supports the following DML operations on tables:

- INSERT, UPDATE, DELETE, COMMIT, ROLLBACK
- Direct-path loads (SQL*Loader) (INSERT AND FULL ROLLBACK).

NOTE: Replication of partial rollbacks of DLOADs is **not** supported.

The target table must support the column types that are being replicated from the source Oracle table.

SharePlex supports the following table types for DML operations:

Supported table type*	Conditions of Support
Regular Oracle tables	None
Index-organized tables	SharePlex does not support: <ul style="list-style-type: none">• Replication to/from index-organized tables that contain LOB or VARRAY columns• Replication from a non-index-organized table to an index-organized table• SharePlex hash-based horizontal partitioning of index-organized tables
Partitioned tables	None
Views	None
Materialized views	SharePlex does not support replication from a materialized view to a materialized view. SharePlex can replicate the underlying table of a materialized view to a regular target table.

SharePlex does not support the following table types:

- Replication to/from nested tables
- Replication to/from clustered tables

***SharePlex does not support the following for any table type:**

- Replication to/from Identity columns.
- Replication of rows changed by 'UPDATE WITH CASE' syntax.
- Replication of rows in which data exceeds 319 KB in size, excluding LOB and LONG columns
- Replication of external tables or tables with external partitions

Sequences

- Transactional changes to Oracle sequences can be replicated only from Oracle to Oracle.
- To replicate transactional changes to sequences, the supplemental logging of primary and unique keys must be enabled at the database level, or you must enable supplemental logging for primary keys on the **sys.seq\$** table.

Secured and compressed objects

SharePlex supports DML operations on secured or compressed objects as described in the following table. See "Conditions of support" following this table for additional information.

Secured/Compressed Object	Can be replicated to:
DML on tables encrypted by Oracle Obfuscation Toolkit	All target types
DML on tables with Transparent Data Encryption (TDE) ¹	All target types
DML on Oracle Label Security (OLS) ²	All target types
DML on compressed objects: Basic, Advanced Row (OLTP) Compression, HCC ³	All target types
Direct Load (DLOAD) on compressed objects: Basic, Advanced Row (OLTP) Compression, HCC ³	All target types

Conditions of support

1. TDE

- SharePlex supports Tablespace Encryption and Column Encryption, both source and target.
- The SharePlex **copy/append** command does not support TDE.
- TDE is not supported for sources on RDS.
- SharePlex only supports the AES and DES encryption algorithms.

2. OLS

By default, SharePlex cannot process rows that are protected by OLS (Oracle Label Security) because users granted DBA privileges (like SharePlex) do not have enough privileges to access those rows. However, if privilege is granted from the OLSSYS user, SharePlex can support OLS. SharePlex was tested under the following OLS configuration:

- The SharePlex user was granted full privilege to the objects in replication.
- Test tables with OLS security were created.

- Data was replicated using INSERT, UPDATE, DELETE, ROLLBACK, and TRUNCATE operations, and ALTER TABLE to add and drop columns.

NOTE: If the OLS policy data label column is defined as hidden, the data in that column cannot be replicated by SharePlex.

IMPORTANT: Shareplex does not support OLS policy configuration changes on tables during active replication. Users need to apply these configurations before activating the configuration.

3. Compression

For HCC compression: SharePlex does not support query low compression. Supported types of compression are query high, archive low and archive high.

For Advanced Row (OLTP) Compression: Under certain conditions, Oracle does not provide enough information in the redo log for SharePlex to replicate a DML operation on a OLTP compressed object. Testing of OLTP compressed objects is advised.

Oracle to open targets DDL support

SharePlex provides default and optional DDL support.

NOTES: ALTER TABLE to ADD COLUMN and ALTER TABLE to DROP COLUMN are supported on Basic, Advanced Row (OLTP) Compression, and HCC compressed Oracle objects for replication to all Oracle and open targets.

SharePlex does not support:

- ANALYZE TABLE and ANALYZE INDEX
- DDL to ALTER TABLE ADD OVERFLOW to an IOT in replication
- DDL operations issued by the SharePlex database user
- DDL to ALTER INDEX to an IOT in replication

SharePlex provides limited DDL support for replication from Oracle to open targets. The involved objects must be listed in the active configuration file explicitly or with a wildcard. There is no optional DDL support for replication from Oracle to cross platforms.

The default Oracle to open target configuration is represented by the following parameter setting:

SP_OCT_REPLICATE_DDL=3

See "Table Notes" following this table for additional information.

Supported object	Supported Operation
Table and IOT	Truncate ¹
	Alter table add column ²
	Alter table drop column

TABLE NOTES:

- TRUNCATE TABLE is not supported from Oracle compressed objects to open targets.
- The default mappings of Oracle data types to their open target counterpart for replicated ALTER TABLE ADD COLUMN DDL are shown in the "Supported Data type" section of the respective target. When adds the column, it defines it with the default data type. This mapping applies to the entire configuration (not per table).

Oracle to Azure Event Hubs replication

SharePlex supports replication from Oracle to Azure Event Hubs, according to the details below.

Supported target operating systems

For information regarding supported source and target operating systems with specific database versions, see the [Compatibility Matrix for Supported Operating Systems and Target Platforms](#) section. To view compatibility across operating systems for remote replication, see [Compatibility Across Operating Systems \(Remote Collection and Posting\)](#).

Supported Azure Event Hubs target

Supported platform as a service: Azure Event Hubs

LIMITATION: SharePlex displays incorrect column names for schemas when the column name exceeds 30 characters on the source, in JSON and XML formats, during replication from Oracle to Azure Event Hubs.

Supported file types

- XML file
For XML supported data type information, see [XML Supported Data Types](#).
- JSON file
For JSON supported data type information, see [JSON Supported Data Types](#).

Supported operations and objects for DML replication

SharePlex supports DML operations on tables and sequences, with some conditions. DML can be replicated from an Oracle source to an Azure Event Hubs target. For additional information, see [Supported Operations and Objects for DML Replication](#).

Supported operations and objects for DDL replication

SharePlex supports DDL operations on tables and sequences, with some conditions. DDL can be replicated from an Oracle source to an Azure Event Hubs target. For additional information, see [Oracle to open target DDL support](#).

Oracle to Cloud Storage replication

Oracle to Parquet file replication

SharePlex supports replication from Oracle to Parquet file, according to the details below.

Supported target operating systems

For information regarding supported source and target operating systems with specific database versions, see the [Compatibility Matrix for Supported Operating Systems and Target Platforms](#) section. To view compatibility across operating systems for remote replication, see [Compatibility Across Operating Systems \(Remote Collection and Posting\)](#).

Supported target type

File (format record=parquet)

NOTE: Parquet supports only the UTF-8 character set.

Parquet format supported open targets

Oracle	Parquet Logical Type	Parquet Physical Type
CHAR	STRING	BYTE_ARRAY with UTF-8 encoding
VARCHAR / VARCHAR2	STRING	BYTE_ARRAY with UTF-8 encoding
NUMBER(p)	DECIMAL(p)	FIXED_LEN_BYTE_ARRAY
NUMBER(p, s)	DECIMAL(p, s)	FIXED_LEN_BYTE_ARRAY
NUMBER	DECIMAL(38, 18)	FIXED_LEN_BYTE_ARRAY
BINARY_FLOAT / BINARY_DOUBLE	DOUBLE	DOUBLE
DATE	TIMESTAMP (milliseconds / seconds)	INT64
TIMESTAMP([0-3]/[4-6]/[7-9])	TIMESTAMP (milliseconds / microsecond / nanosecond)	INT64
TIMESTAMP with TZ	TIMESTAMP (milliseconds / microsecond / nanosecond)	INT64
TIMESTAMP with LTZ	TIMESTAMP (milliseconds / microsecond / nanosecond)	INT64
CLOB / NCLOB	STRING	BYTE_ARRAY with UTF-8 encoding
LONG / LONGVARCHAR	STRING	BYTE_ARRAY with UTF-8 encoding

Oracle	Parquet Logical Type	Parquet Physical Type
BLOB	BINARY	BYTE_ARRAY
RAW / LONGRAW	BINARY	BYTE_ARRAY

Supported operations and objects for DML replication

SharePlex supports DML operations on tables and sequences, with some conditions. DML can be replicated from an Oracle source to a Parquet target.

Supported operations and objects for DDL replication

SharePlex does not support DDL operations and objects when replicating data from an Oracle source to a Parquet target.

Oracle to File Output replication

SharePlex supports replication from Oracle to File Output, according to the details below.

Supported target operating systems

For information regarding supported source and target operating systems with specific database versions, see the [Compatibility Matrix for Supported Operating Systems and Target Platforms](#) section.

Supported file types

- XML file
- SQL file
- JSON file
- Parquet file*

* **NOTE:** The Parquet file type is supported only on Linux platforms.

LIMITATION: SharePlex displays incorrect column names for schemas when the column name exceeds 30 characters on the source, in JSON and XML formats, during replication from Oracle to File Output.

XML format supported open targets

This mapping applies to all targets that receive messages as XML:

- File in XML format
- JMS
- Kafka
- Azure/Kafka Event Hubs

Oracle	XML
BINARY_DOUBLE	decimal
BINARY_FLOAT	decimal
BLOB	base64Binary
CHAR	string
CLOB	string
DATE	dateTime
INTERVAL DAY TO SECOND	dayTimeDuration
INTERVAL YEAR TO MONTH	yearMonthDuration

Oracle	XML
LONG	string
NCHAR	string
NCLOB	string
NUMBER	decimal
NVARCHAR2	string
RAW	base64Binary
ROWID	string
TIMESTAMP	dateTime
TIMESTAMP WITH LOCAL TIME ZONE	dateTimeStamp
TIMESTAMP WITH TIME ZONE	dateTimeStamp
VARCHAR2	string
VARRAY	Post maps the data types in the source VARRAY to the appropriate XML data types. Only certain data types in a VARRAY are supported. See the conditions of support.

Conditions of support

Only the following data types in a VARRAY are supported by SharePlex when replicating to XML output:

- BINARY_FLOAT
- VARCHAR2
- BINARY_DOUBLE
- NUMBER
- TIMESTAMP (This is converted to a DATE data type without microseconds in XML output)
- DATE
- UDT (only if it contains one of the data types in this list)

See [Conditions of support](#) for the above-mentioned supported data types.

JSON format supported open targets

This mapping applies to all targets that receive messages as JSON:

- File in XML format
- JMS
- Kafka
- Azure/Kafka Event Hubs

Oracle	JSON
BINARY_DOUBLE	Number
BINARY_FLOAT	Number
BLOB	String containing base64 encoded data
CHAR	String
CLOB	String
DATE	String containing date
INTERVAL DAY TO SECOND	String containing interval
INTERVAL YEAR TO MONTH	String containing interval
LONG	String
NCHAR	String
NCLOB	String
NUMBER	Number
NVARCHAR2	String
RAW	String containing hex encoded data
ROWID	String
TIMESTAMP	String containing timestamp
TIMESTAMP WITH LOCAL TIME ZONE	String containing timestamp
TIMESTAMP WITH TIME ZONE	String containing timestamp
VARCHAR2	String

Conditions of support: See [Conditions of support](#) for the above-mentioned supported data types.

Parquet format supported open targets

Oracle	Parquet Logical Type	Parquet Physical Type
CHAR	STRING	BYTE_ARRAY with UTF-8 encoding
VARCHAR / VARCHAR2	STRING	BYTE_ARRAY with UTF-8 encoding
NUMBER(p)	DECIMAL(p)	FIXED_LEN_BYTE_ARRAY
NUMBER(ps)	DECIMAL(p, s)	FIXED_LEN_BYTE_ARRAY
NUMBER	DECIMAL(38, 18)	FIXED_LEN_BYTE_ARRAY
BINARY_FLOAT / BINARY_DOUBLE	DOUBLE	DOUBLE
DATE	TIMESTAMP (milliseconds / seconds)	INT64
TIMESTAMP([0-3]/[4-6]/	TIMESTAMP (milliseconds / microsecond/	INT64

Oracle	Parquet Logical Type	Parquet Physical Type
[7-9])	nanosecond)	
TIMESTAMP with TZ	TIMESTAMP (milliseconds / microsecond/ nanosecond)	INT64
TIMESTAMP with LTZ	TIMESTAMP (milliseconds / microsecond/ nanosecond)	INT64
CLOB / NCLOB	STRING	BYTE_ARRAY with UTF-8 encoding
LONG / LONGVARCHAR	STRING	BYTE_ARRAY with UTF-8 encoding
BLOB	BINARY	BYTE_ARRAY
RAW / LONGRAW	BINARY	BYTE_ARRAY

Supported operations and objects for DML replication

SharePlex supports DML operations on tables and sequences, with some conditions. DML can be replicated from an Oracle source to a File Output target. For additional information, see [Supported Operations and Objects for DML Replication](#).

Supported operations and objects for DDL replication

SharePlex supports DDL operations on tables and sequences, with some conditions. DDL can be replicated from an Oracle source to a File Output target. SharePlex does not support DDL replication from Oracle to a Parquet file. For additional information, see [Oracle to open target DDL support](#).

Oracle to JMS Message Queues replication

SharePlex supports replication from Oracle to JMS Message Queues, according to the details below.

Supported target operating systems

For information regarding supported source and target operating systems with specific database versions, see the [Compatibility Matrix for Supported Operating Systems and Target Platforms](#) section.

Supported JMS Message Queues

- JMS - Apache ActiveMQ 5.8 and 5.16.7
- JMS - IBM MQ 8 and 9.3

Supported file types

- XML file
For XML supported data type information, see [XML Supported Data Types](#).
- JSON file
For JSON supported data type information, see [JSON Supported Data Types](#).

LIMITATION: SharePlex displays incorrect column names for schemas when the column name exceeds 30 characters on the source, in JSON and XML formats, during replication from Oracle to JMS Message Queues.

Supported operations and objects for DML replication

SharePlex supports DML operations on tables and sequences, with some conditions. DML can be replicated from an Oracle source to a JMS Message Queues target. For additional information, see [Supported Operations and Objects for DML Replication](#).

Supported operations and objects for DDL replication

SharePlex supports DDL operations on tables and sequences, with some conditions. DDL can be replicated from an Oracle source to a JMS Message Queue target. For additional information, see [Oracle to open target DDL support](#).

Oracle to Kafka replication

SharePlex supports replication from Oracle to Kafka, according to the details below.

Supported target operating systems

For information regarding supported source and target operating systems with specific database versions, see the [Compatibility Matrix for Supported Operating Systems and Target Platforms](#) section. To view compatibility across operating systems for remote replication, see [Compatibility Across Operating Systems \(Remote Collection and Posting\)](#).

Supported Kafka targets

- Apache Kafka 3.6.1 and 3.8
- Confluent Kafka 7.6.0

Supported JDBC connector version `confluentinc-kafka-connect-jdbc-10.7.6`

Confluent Kafka, along with Schema Registry and AVRO format, supports the following authentication methods:

- SASL_PLAINTEXT with PLAIN authentication
- Kerberos SASL_PLAINTEXT with GSSAPI authentication

We test and reproduce issues against:

- Apache Kafka
- Confluent Kafka

NOTE: If you would like to use a different vendor who provides their own Kafka distribution or provides a Kafka compliant interface, you are welcome to do so. From a support perspective, our support and development teams will share any Kafka broker errors that SharePlex receives and also ensure SharePlex itself is working properly to capture data, the target configuration formats in SharePlex are correct, and the SharePlex poster is posting or attempting to post according to the Kafka versions under support. If there are SharePlex issues with Kafka support that can be reproduced on Apache Kafka or otherwise demonstrated to be definitely associated with SharePlex, our team will address those as standard Kafka issues.

Supported formats

- XML format
For XML supported data type information, see [XML Format Supported Data Types](#).
- JSON format
For JSON supported data type information, see [JSON Format Supported Data Types](#).
- AVRO format
For AVRO supported data type information, see [AVRO Format Supported Data Types](#).

LIMITATION: SharePlex displays incorrect column names for schemas when the column name exceeds 30 characters on the source, in JSON and XML formats, during replication from Oracle to Kafka.

AVRO format supported data types

Oracle	Kafka (AVRO format)
VARCHAR2	string
CHAR	string
ROWID	string
NUMBER (P, S <= 0)	P-S < 10 -> int P-S < 19 -> long P-S >= 19 -> decimal (logical)
NUMBER (P, S > 0)	decimal (logical)
NUMBER without precision and scale*	string
BINARY FLOAT	float
BINARY DOUBLE	double
DATE	date (logical)/string
TIMESTAMP	timestamp-millis (logical)/string
TIMESTAMP_TZ	timestamp-millis (logical)/string
TIMESTAMP_LTZ	timestamp-millis (logical)/string
INTERVAL_YEAR	string
INTERVAL_DAY	string
RAW	bytes
CLOB	string
BLOB	bytes
LONG	string
LONG VARCHAR	string
LONG RAW	bytes

* **NOTE:** Several variants of the NUMBER data type (such as SMALLINT, INT, DECIMAL, and NUMERIC) result in a NULL precision value in `sys.col$`. In the SharePlex object cache, their precision is set to 0. Consequently, these data types are also mapped to an Avro string.

LIMITATIONS:

The following limitations should be considered when replicating data from Oracle to Apache Kafka:

- COMMIT and TRUNCATE operations are not supported
- DateTime Handling with AVRO parameter `datetime_logical` set to `yes` using the Target command `datetime_logical = yes`, DATE and TIMESTAMP can store values only after 01-Jan-1970. If earlier values are received, processing stops with an error.

The following limitations should be considered when replicating data from Oracle to Confluent Kafka:

- An UPDATE on a key column results in a DELETE operation followed by the INSERT. If the UPDATE does not include data for LOB columns, those columns will become empty.
- The Confluent `kafka-connect-jmespath` predicate plugin, used for filtering fields, does not support the AVRO BYTES datatype. Therefore, binary LONGs/LOBs (such as LONG RAW and BLOB) mapped to AVRO BYTES cannot be filtered out. When such columns lack data, they are populated with the value `_splex_default` during updates, which must be filtered out using appropriate transform and predicate configurations.
- Commit operations are not directly posted as commits. They are handled by the JDBC Sink Connector and are configurable with JDBC Sink Connector configurations, which commits after a configurable limit is reached.
- TRUNCATE operations are not supported by the JDBC Sink Connector. The Poster will ignore any TRUNCATE transactions.
- DateTime Handling with AVRO parameter `datetime_logical` set to `yes` using the Target command `datetime_logical = yes`:
 - Timestamp precision is supported up to milliseconds.
 - DATE and TIMESTAMP can store values only after 01-Jan-1970. If earlier values are received, processing stops with an error.
- If an Oracle Date datatype includes TIME, the JDBC Sink Connector will fail to insert the record in the Oracle target database when `datetime_logical` is set to `'no'` and the date format includes time.

Supported operations and objects for DML replication

SharePlex supports DML operations on tables and sequences, with some conditions. DML can be replicated from an Oracle source to a Kafka target. For additional information, see [Supported Operations and Objects for DML Replication](#).

Supported operations and objects for DDL replication

SharePlex supports DDL operations on tables and sequences, with some conditions. DDL can be replicated from an Oracle source to a Kafka target. For additional information, see [Oracle to open target DDL support](#).

Oracle to MariaDB replication

SharePlex supports replication from Oracle to MariaDB, according to the details below.

Supported target operating systems

For information regarding supported source and target operating systems with specific database versions, see the [Compatibility Matrix for Supported Operating Systems and Target Platforms](#) section. To view compatibility across operating systems for remote replication, see [Compatibility Across Operating Systems \(Remote Collection and Posting\)](#).

LIMITATION: The `SP_OPX_THREADS` parameter is not supported in MariaDB.

Supported target versions and ODBC requirements

MariaDB 11.4.2

ODBC driver requirement:

mariadb-connector-odbc-3.1.20-1.x86_64

Supported target cloud platforms

Amazon Web Services: Amazon RDS for MariaDB

Supported data types

SharePlex supports the following data types for replication from Oracle to MariaDB:

Oracle	MariaDB
BINARY_DOUBLE ¹	DOUBLE
BINARY_FLOAT	DOUBLE
BLOB	LONGBLOB
CHAR (n)	CHAR (n)
CLOB	LONGTEXT
DATE	DATETIME (0)
LONG	LONGTEXT
LONGRAW	LONGBLOB
NUMBER	DOUBLE
NUMBER (p,0:)	NUMERIC (p,s)

Oracle	MariaDB
NUMBER (p,s)	DOUBLE
RAW (n)	VARBINARY (n)
TIMESTAMP (7:9)	DATETIME (6)
TIMESTAMP (p)	DATETIME (p)
VARCHAR2 (n)	VARCHAR (n)

Conditions of support: Because Oracle and MariaDB handle this data type differently, there may be a very small difference in precision between the value of the source and the value of the target row. You may see the difference when viewing the data from SQL*Plus or other utility, but SharePlex will not report this difference as an out-of-sync condition.

Supported operations and objects for DML replication

SharePlex supports DML operations on tables and sequences, with some conditions. DML can be replicated from an Oracle source to a MariaDB target. For additional information, see [Supported Operations and Objects for DML Replication](#).

Supported operations and objects for DDL replication

SharePlex supports DDL operations on tables and sequences, with some conditions. DDL can be replicated from an Oracle source to a MariaDB target. For additional information, see [Oracle to open target DDL support](#).

Oracle to MySQL replication

SharePlex supports replication from Oracle to MySQL, according to the details below.

Supported target operating systems

For information regarding supported source and target operating systems with specific database versions, see the [Compatibility Matrix for Supported Operating Systems and Target Platforms](#) section. To view compatibility across operating systems for remote replication, see [Compatibility Across Operating Systems \(Remote Collection and Posting\)](#).

LIMITATION: The `SP_OPX_THREADS` parameter is not supported in MySQL.

Supported target versions and ODBC requirements

MySQL 8.0.26 and 8.4

ODBC driver requirement:

ODBC 8.0.26 for Linux

Supported target cloud platforms

Amazon Web Services

- Amazon RDS for MySQL
- Amazon Aurora

Microsoft Azure

- Azure Virtual Machine (IaaS)
- MySQL Azure database (PaaS)

Supported data types

SharePlex supports the following data types for replication from Oracle to MySQL:

Oracle	MySQL
BINARY_DOUBLE ¹	DOUBLE
BINARY_FLOAT	DOUBLE
BLOB	LONGBLOB
CHAR (n)	CHAR (n)
CLOB	LONGTEXT

Oracle	MySQL
DATE	DATETIME (0)
LONG	LONGTEXT
LONGRAW	LONGBLOB
NUMBER	DOUBLE
NUMBER (p,0:)	NUMERIC (p,s)
NUMBER (p,s)	DOUBLE
RAW (n)	VARBINARY (n)
TIMESTAMP (7:9)	DATETIME (6)
TIMESTAMP (p)	DATETIME (p)
VARCHAR2 (n)	VARCHAR (n)

Conditions of support

1. Because Oracle and MySQL handle this data type differently, there may be a very small difference in precision between the value of the source and the value of the target row. You may see the difference when viewing the data from SQL*Plus or other utility, but SharePlex will not report this difference as an out-of-sync condition.

See [Conditions of support](#) for the above-mentioned supported data types.

Supported operations and objects for DML replication

SharePlex supports DML operations on tables and sequences, with some conditions. DML can be replicated from an Oracle source to a MySQL target. For additional information, see [Supported Operations and Objects for DML Replication](#).

Supported operations and objects for DDL replication

SharePlex supports DDL operations on tables and sequences, with some conditions. DDL can be replicated from an Oracle source to a MySQL target. For additional information, see [Oracle to open target DDL support](#).

Oracle to Oracle replication

SharePlex supports replication from Oracle to Oracle, according to the details below.

Supported target operating systems

For information regarding supported source and target operating systems with specific database versions, see the [Compatibility Matrix for Supported Operating Systems and Target Platforms](#) section. To view compatibility across operating systems for remote replication, see [Compatibility Across Operating Systems \(Remote Collection and Posting\)](#).

Supported target versions

- Standard and Enterprise Editions of Oracle 12cR1, 12cR2, 18c, 19c, 21c, 23ai¹, and 26ai²
- Oracle ADB for autonomous transaction processing database 19c.

NOTES:

- Unless specified, Oracle, RAC, and ASM are supported for the same versions.
- In addition to the supported operating systems for Oracle and the supported cloud platforms for Oracle, the Oracle versions listed above are also supported when running on an on-premises Oracle Exadata Database Machine. Any issues reported on an on-premises Oracle Exadata Database Machine will be tested against Oracle Exadata Cloud Service for reproduction purposes.
- Amazon RDS for Oracle 12cR1 (supported 12cR1 versions are 12.1.0.2.v7 or later) and 19c. Support for Oracle features on Amazon RDS is limited to the default option groups: default:oracle-ee-12-1, default:oracle-ee-19, and default:oracle-se2-19.
- On **Windows** Server, Oracle 19c versions below 19.6 have an Oracle bug (29865658) that causes the SharePlex **ora_setup**, **Reader**, and **Poster** processes to get stuck. This bug is fixed in version 19.6 and later. To avoid this issue with SharePlex, either upgrade the Oracle 19c database to version 19.6 or higher. Users need to contact Oracle to obtain a patch for bug **29865658** or set the `CLIENT_STATISTICS_LEVEL` database parameter to 'OFF'.

¹See [Conditions of Support](#) for Oracle 23ai for details on support conditions.

2Conditions of Support for Oracle 26ai:

- Oracle 26ai is supported only on the Linux platform.
- Oracle 26ai is supported on **OCI-DBCS** and on the **Oracle Exadata Dedicated Infrastructure** platform.
- Cloud platforms such as **Oracle Database@AWS**, **Oracle Database@Azure**, and **Oracle Database@GCP** are not supported with Oracle 26ai.

Supported target cloud platforms

Oracle Cloud Infrastructure

- Oracle Exadata Cloud Service (ExaCS)¹
- Oracle Exadata Cloud@Customer (ExaCC)¹
- Oracle Database Cloud Service (DBCS)²
 - Enterprise Standard Edition
 - Enterprise Edition High Performance
 - Enterprise Edition Extreme Performance
- Oracle Compute (IaaS) Virtual Machines and Bare Metal

Amazon Web Services

- Amazon RDS for Oracle³
- Amazon EC2 (IaaS) Virtual Machine
- Oracle Database@AWS

Microsoft Azure

- Azure Virtual Machine (IaaS)
- Oracle Database@Azure

Google Cloud Platform

- Google Cloud Virtual machine (IaaS)
- Oracle Database@GCP

Conditions of support

1. **Oracle Exadata:** Issues on Oracle Exadata will be tested against Oracle Exadata Cloud Service for reproduction purposes.
2. **Oracle Database Cloud Service (DBCS):** SharePlex only supports Transparent Data Encryption (TDE) feature on DBCS EE-HP, DBCS EE-EP, and ExaCS/CC.
3. **Amazon RDS for Oracle:** Please see [Supported Oracle Source and Target Versions](#) for additional clarification on version compatibility.

Supported data types

SharePlex supports the following Oracle data types for replication to Oracle targets. See the [Conditions of support](#) for additional information.

- ANYDATA¹
- B-FILE
- BINARY DOUBLE
- BINARY FLOAT
- BLOB²

- CHAR
- CLOB²
- DATE
- INTERVAL
- LONG RAW²
- LONG²
- NCHAR
- NCLOB³
- NUMBER
- NVARCHAR2⁸
- RAW⁸
- ROWID
- SDO_GEOMETRY
- TIMESTAMP
- TIMESTAMP WITH LOCAL TIME ZONE
- TIMESTAMP WITH TIME ZONE
- UDT (User Defined Type)⁵
- UROWID
- VARCHAR
- VARCHAR2⁸
- VARRAY collectors
- XMLTYPE⁴

NOTE: SharePlex supports columns that are defined as INVISIBLE.

Conditions of support

1. ANYDATA

- Replication of ANYDATA is supported, except when it contains a UDT or the storage is defined as SecureFile LOB with compression. SecureFile LOB without compression is supported. Only the following data types within ANYDATA are supported by SharePlex:
 - CHAR
 - DATE
 - NUMBER
 - RAW
 - VARCHAR
 - VARCHAR2
 - TIMESTAMP
- A data type within an ANYDATA type must be in-row (inside the column data). Oracle encapsulates the ANYDATA type as an in-row secure file LOB. If the encapsulated data is longer than the length allowed for an in-row LOB, that data appears as out-of-row LOB data. SharePlex assumes that the encapsulated data always appears as in-row LOB.

2. LONG and LOB (BLOB, CLOB)

- Any table that contains a LOB or LONG should have a primary key or unique key defined on it. If a table does not have a key, SharePlex builds its own key from all of the columns except LONGs or LOBs. If a LOB or LONG is the only difference between two rows that otherwise satisfy the Post WHERE clause, SharePlex cannot guarantee that the correct row will be updated.
- SharePlex supports SecureFiles LOBs as follows:
 - Logging must be enabled.
 - SharePlex supports uncompressed SecureFiles LOBS and SecureFiles LOBS with high or medium compression (compressed with ZLIB or ZSTD compression libraries)
 - SecureFiles LOBS are not supported when the storage specification includes encryption and/or deduplication.
- SharePlex does not support LONG and LONG_RAW data types in a configuration where transformation or conflict resolution are performed.

3. NCLOB

NCLOBs are not supported by Compare/Repair if the source and target have different character sets.

4. XMLTYPE

SharePlex supports the replication of XMLTYPE stored as CLOB and BINARY. SharePlex does not support XMLTYPE stored as OBJECT RELATIONAL or TRANSPORTABLE BINARY. Additionally, the following applies:

- XMLTYPE stored as BINARY is not supported when the storage is defined as SecureFile LOB with compression. SecureFile LOB without compression is supported.

- Binary XMLTypes are not supported by Compare/Repair when the source and target character sets are different and require character set conversion.
- Compare/Repair does not support comparison of XMLTYPE when the source and target have different storage clauses. Compare/Repair only supports compare/repair when source and target are both stored as BINARY or both are stored as CLOB.

5. Parquet Type

SharePlex supports data replication from an Oracle source in Parquet format on Linux.

5. User-defined types

SharePlex does not support abstract data types and VARRAYs in a configuration where the SharePlex conflict resolution feature is performed.

NOTE: SharePlex replicates tables with the UDT fields in the base type ONLY. In case of columns containing multiple subtypes, replication is applicable only for base type fields.

6. General

If the precision or size of the target data type is not large enough for the data being replicated, the data may be truncated or rounded by the database when applied.

7. BINARY DOUBLE and BINARY FLOAT

The BINARY DOUBLE and the BINARY FLOAT data types are not supported for the **copy** command.

8. Extended Data Types

- Extended Data Types are not supported for the **copy** command.
- Extended Data Types are not supported on a key column. The keys that do not support the Extended Data Types include:
 - Primary key on the Oracle table
 - Unique key on the Oracle table
- Horizontal partitioning is not supported by tables containing the Extended Data Type columns.
- SharePlex does not replicate data with Extended Data Type when target type is JMS Message Queues, File output (XML, JSON, SQL, Parquet), Event Hubs, or Kafka.

Supported operations and objects for DDL replication

SharePlex provides default and optional DDL support.

NOTE: ALTER TABLE to ADD COLUMN and ALTER TABLE to DROP COLUMN are supported on Basic, Advanced Row (OLTP) Compression, and HCC compressed Oracle objects for replication to all Oracle and open targets.

SharePlex does not support:

- ANALYZE TABLE and ANALYZE INDEX
- DDL to ALTER TABLE ADD OVERFLOW to an IOT in replication
- DDL operations issued by the SharePlex database user
- DDL to ALTER INDEX to an IOT in replication
- During DDL replication, data containing the ALTER statement related to Oracle extended statistics—'Virtual by User'— is not supported. Oracle also does not recommend to use the extended statistics 'Virtual by User'.

DDL on objects listed in the active configuration file

SharePlex supplies default and optional DDL replication for objects whose **names are listed in the configuration file explicitly or by wildcard**. See "Conditions of support" following this table for additional information.

For details about the controlling parameter, see the [SharePlex Reference Guide](#).

Supported object	Supported DDL Operation	Enabled by default?	Controlling parameter
Table and IOT (when they exist in the source at the time of configuration activation)	Truncate Alter to add, drop, modify columns Alter to add, modify, drop, split, coalesce, move, truncate, exchange partition or subpartition ¹ Drop Table	Yes	SP_OCT_REPLICATE_DDL=3
Table and IOT (when they are added to the source after configuration activation)	Create Create as Select ²	Yes	SP_OCT_AUTOADD_ENABLE=1
Table	Alter Table Rename	Yes	SP_OCT_DDL_UPDATE_CONFIG=1
Index	Create Alter Drop	Yes	SP_OCT_AUTOADD_ENABLE=1
Materialized View ³	Create Drop	No	SP_OCT_AUTOADD_ENABLE=1 and SP_OCT_AUTOADD_MVIEW=1 and SP_SYS_TARGET_COMPATIBILITY=8.6.2 or higher

Supported object	Supported DDL Operation	Enabled by default?	Controlling parameter
Sequences ⁴	Create, Drop	No	SP_OCT_AUTOADD_ENABLE=1 and SP_OCT_AUTOADD_SEQ=1 and SP_SYS_TARGET_COMPATIBILITY=8.6.3 or higher
Trigger	Create, Drop	No	SP_OCT_REPLICATE_TRIGGER=1
Synonym	Create, Drop	No	SP_OCT_REPLICATE_SYNONYM=1
Grant ⁵	Create, Drop	No	SP_OCT_REPLICATE_GRANT=1

Conditions of support

- ALTER TABLE has the following conditions of support:
 - ALTER TABLE DDL that involves multiple tables, such as EXCHANGE PARTITION between tables, requires all tables involved to be in replication.
 - Default DDL support for ALTER TABLE on partitions/subpartitions applies to user-named interval partitions/subpartitions. For system-named (system generated) interval partitions/subpartitions, SharePlex supports only ALTER TABLE to DROP and TRUNCATE the system-named partitions. To enable support for DROP and TRUNCATE of system-named partitions, set the SP_OCT_TRUNC_PARTITION_BY_ID parameter to 1, and ensure that both source and target are updated to SharePlex version 8.6.4 or later. **NOTE:** This requirement has changed from previous SharePlex releases in that the parameter must now be set regardless of the Oracle version, including for Oracle 12.2 and later.
 - SharePlex does not support TRUNCATE of a system-generated sub-partition if the sub-partition is empty. In such cases, Post stops with error SP-OPO01002. To configure Post to ignore this error, stop Post, set the SP_OPO_CONT_ON_ERR parameter to 1, and add error number SP-OPO01002 to the top of the **oramsglist** file. See the [SharePlex Reference Guide](#) for more information about this parameter.
- For CREATE TABLE AS SELECT, SharePlex supports the following data types: LONG, DATE, RAW, LONG RAW, ROWID, LONG VARCHAR, CHAR, CLOB, BLOB, CFILE, BFILE, TIMESTAMP, INTERVAL YEAR TO MONTH, INTERVAL DAY TO SECOND, VARCHAR2, NUMBER, and ANYDATA.

3. For CREATE MATERIALIZED VIEW the following applies:
 - SharePlex supports the following data types for CREATE MATERIALIZED VIEW: LONG, DATE, RAW, LONG RAW, ROWID, UROWID, LONG VARCHAR, CHAR, CLOB, BLOB, CFILE, BFILE, TIMESTAMP, INTERVAL YEAR TO MONTH, INTERVAL DAY TO SECOND, VARCHAR2, NUMBER, and ANYDATA. SharePlex does not support ALTER MATERIALIZED VIEW.
 - SharePlex converts a CREATE MATERIALIZED VIEW to a CREATE TABLE, applies the CREATE TABLE to the target, and then replicates the DML that populates the view. SharePlex does not replicate materialized views to materialized views.
4. To replicate sequences, the supplemental logging of primary and unique keys must be enabled at the database level, or you must enable supplemental logging for primary keys on the **sys.seq\$** table.
5. Amazon RDS restricts DBA users from issuing the GRANT command. Because SharePlex runs as the DBA user, SharePlex cannot replicate GRANT to or from an RDS database.

DDL on objects not listed in the active configuration file

SharePlex provides expanded DDL support for Oracle objects that are not listed in the configuration file. SharePlex replicates the DDL statements for these objects, but does not maintain synchronization of the objects through DML replication. Expanded DDL replication is optional and is enabled with the following parameter setting:

```
SP_OCT_REPLICATE_ALL_DDL=1
```

NOTE: Expanded DDL replication supports not only tables and sequences but also a wide range of other objects such as procedures, functions, users, and views, which are not part of replication. Some of these objects may have underlying objects that *are in replication*. In those cases, Expanded DDL replication applies to the underlying objects in replication, as well as to the object that is not in replication.

See "Table Notes" following this table for additional information.

Supported object	Supported Operation
Table and IOT	Create table
	Create table as select
	Alter table add column
	Alter table drop column
	Drop table
	Truncate
	Comment on table
	Comment on columns
	Associate Statistics
	Disassociate Statistics
Cluster	Create cluster
	Crop cluster

Supported object	Supported Operation
Sequence	Create
	Drop
	Alter
Partition/ Subpartition	Add
	Split
	Merge
	Drop
	Modify
	Coalesce
	Exchange
	Move
	Truncate
	Rename
	Set
Index	Create
	Alter
	Drop
View	Create
	Alter
	Drop
	Comment on view
Synonym	Create
	Drop
Directory ¹	Create
	Drop
User-defined type	Create type
	Alter type
	Drop type
	Create type body
	Drop type body
Stored procedure	Create
	Alter
	Drop

Supported object	Supported Operation
Stored function	Create
	Alter
	Drop
Package	Create package
	Create package body
	Alter package
	Alter package body
	Drop package
	Drop package body
User	Create user
	Alter user
	Drop user
	Grant ¹
	Revoke
Role	Create role
	Alter role
	Drop role
	Grant ¹
	Revoke

TABLE NOTES:

Amazon RDS restricts DBA users from issuing certain commands on an Amazon RDS database instance. Because SharePlex runs as the DBA user, SharePlex cannot replicate the following commands to or from an RDS database:

- CREATE or DROP DIRECTORY
- GRANT

Supported operations and objects for DML replication

SharePlex supports DML operations on tables and sequences, with some conditions. DML can be replicated from an Oracle source to an Oracle target. For additional information, see [Supported Operations and Objects for DML Replication](#).

Oracle to PostgreSQL replication

SharePlex supports replication from Oracle to PostgreSQL, according to the details below.

Supported target operating systems

For information regarding supported source and target operating systems with specific database versions, see the [Compatibility Matrix for Supported Operating Systems and Target Platforms](#) section. To view compatibility across operating systems for remote replication, see [Compatibility Across Operating Systems \(Remote Collection and Posting\)](#).

Supported target versions and ODBC requirements

- PostgreSQL 13.4, 13.6, 14.1, 15.x, 16, 17, 18
- Enterprise Database (EDB) 15.x, 16
- Fujitsu Enterprise PostgreSQL 15 SP2, 16, 17
- AlloyDB Omni 15.5.x

ODBC driver requirement:

ODBC drivers for Community Edition: postgresql13-odbc-13.02.0000, postgresql14-odbc-13.02.0000, postgresql15-odbc-16.00.0000, and postgresql16-odbc-16.00.0000

ODBC drivers for Enterprise Edition (EDB): edb-odbc-13.02.0000, edb-odbc-16.00.0000.01

Supported target cloud databases and platforms

Oracle Cloud Infrastructure

Oracle Compute (IaaS) Virtual Machines and Bare Metal

Amazon Web Services

- Amazon RDS for PostgreSQL
- Amazon Aurora
- Amazon EC2 (IaaS) Virtual Machine

Microsoft Azure

- Azure Virtual Machine (IaaS)
- Azure DBaaS

Google Cloud Platform

- Cloud SQL for PostgreSQL
- AlloyDB for PostgreSQL

Supported data types

SharePlex supports the following data types for replication from Oracle to PostgreSQL:

Oracle	PostgreSQL
BINARY_DOUBLE	DOUBLE PRECISION
BINARY_FLOAT	REAL
CHAR (n)	CHAR (n)
CHAR (n CHAR)	CHAR (n)
CLOB	TEXT
DATE	DATE
DATE	TIMESTAMP (0)
LONG	TEXT
NCHAR (n)	CHAR (n)
NCLOB	TEXT
NUMBER	NUMERIC / DOUBLE PRECISION
NUMBER(p)	NUMERIC (p)
NUMBER (p,s)	NUMERIC (p,s)
NVARCHAR2 (n)	VARCHAR (n)
RAW	BYTEA
TIMESTAMP (7:9)	TIMESTAMP (6)
TIMESTAMP (p)	TIMESTAMP (p)
TIMESTAMP (7:9) WITH TIME ZONE	TIMESTAMP (6) WITH TIME ZONE
TIMESTAMP (p) WITH TIME ZONE	TIMESTAMP (p) WITH TIME ZONE
TIMESTAMP (7:9) WITH LOCAL TIME ZONE	TIMESTAMP (6)
TIMESTAMP (p) WITH LOCAL TIME ZONE	TIMESTAMP (p)
VARCHAR2 (n)	VARCHAR (n)
VARCHAR2 (n CHAR)	VARCHAR (n)
BLOB	BYTEA
VARCHAR2 (4000-32767 bytes)	VARCHAR/TEXT
NVARCHAR2 (4000-32767 bytes)	VARCHAR/TEXT
RAW (2000-32767 bytes)	BYTEA

Condition of support: Inserting the `chr(0)` (null) character is not supported during data replication from Oracle to PostgreSQL.

NOTE: Custom conflict resolution does not support large data types, such as CHAR > 2000, VARCHAR > 4000 or without length, TEXT, JSON, JSONB, and BYTEA.

Supported operations and objects for DML replication

SharePlex supports DML operations on tables and sequences, with some conditions. DML can be replicated from an Oracle source to a PostgreSQL target. For additional information, see [Supported Operations and Objects for DML Replication](#).

Supported operations and objects for DDL replication

SharePlex supports DDL operations on tables and sequences, with some conditions. DDL can be replicated from an Oracle source to a PostgreSQL target. For additional information, see [Oracle to open target DDL support](#).

Oracle to Snowflake replication

SharePlex supports replication from Oracle to Snowflake, according to the details below.

Supported operating systems

For information regarding supported source and target operating systems with specific database versions, see the [Compatibility Matrix for Supported Operating Systems and Target Platforms](#) section. To view compatibility across operating systems for remote replication, see [Compatibility Across Operating Systems \(Remote Collection and Posting\)](#).

Supported target versions and ODBC requirements

Snowflake 8.38.2

ODBC driver requirement: from Snowflake 3.1.4 to 3.8

LIMITATION: The **Snowflake 3.3 to 3.5** drivers are not supported on the Windows platform. For additional details, see the description of issue **SPSQL-8415** under the [Known Issues in this Release](#) section.

Supported target cloud platforms

- Microsoft Azure
- Amazon Web Services

Supported data types

SharePlex supports the following data types for replication from Oracle to Snowflake:

Oracle	Snowflake
CLOB	TEXT
NUMBER	INT, INTEGER, NUMBER
CHAR(n)	VARCHAR(n)
CLOB	VARCHAR(n)
NCHAR	CHAR(n)
VARCHAR2(n)	VARCHAR(n)
NCLOB	TEXT
LONG	TEXT
BLOB	BINARY, VARBINARY

Oracle	Snowflake
RAW(n)	VARBINARY
LONGRAW	VARBINARY
BINARY_FLOAT	REAL
NUMBER	SMALLINT
NUMBER	BIGINT
NUMBER	NUMERIC, DECIMAL
DATE	DATE
BINARY_DOUBLE	DOUBLE PRECISION
TIMESTAMP	TIMESTAMP
TIMESTAMP_TZ	TIMESTAMP_TZ

NOTE: It is anticipated that the Snowflake DB's default "HEX" format for binary type will be maintained for Oracle binary to Snowflake binary data type replication. Since source Oracle DB binary data is stored only in "HEX" format, Shareplex does not guarantee data integrity for any other format.

Conditions of support

- **Char(n) data type** - In Oracle, Char(n) is a fixed-size data type. If you insert char data with a length less than "n" into the "Char(n)" column, the remaining slots (n - length) are padded with space to occupy the complete "n" memory positions. Snowflake uses VARCHAR(n) for char storage since Snowflake lacks a comparable fixed-length character data type and only saves char data up to its length. Live replication will ensure that char column data is correctly copied. However, if users are manually inserting data into Snowflake for the equivalent of a Char(n) Oracle column, then the user will need to handle padding as well to occupy the full "n" length so that data will be in sync in both the source and target DB.
- **Binary & Text data types** - Snowflake Binary & Text data types have size limitation of 8 MB, so Oracle's advance Data type replication will be restricted to max 8 MB size limit of equivalent counterpart. Refer table below.

Oracle Data type	Max Size	Snowflake Data type	Max Size
LONG	2 GB	TEXT	8 MB of unicode chars
CLOB	4 GB	TEXT	8 MB of unicode chars
LONGRAW	2 GB	BINARY or VARBINARY	8 MB
BLOB	4 GB	BINARY or VARBINARY	8 MB

See [Conditions of support](#) for the additional conditions of support for the above-mentioned supported data types.

Supported operations and objects for DML replication

SharePlex supports DML operations on tables, with some conditions. DML can be replicated from an Oracle source to a Snowflake target.

Tables

SharePlex supports the following DML operations on tables when replicating data from an Oracle source to the Snowflake target:

- Singular and bulk operation - Insert with key(s)/ non key(s)
- Singular and bulk operation - Update with key(s)/ non key(s)
- Singular and bulk operation - Delete with key(s)/ non key(s)

LIMITATIONS:

The following DML operations related limitations are observed while replicating data from Oracle to Snowflake:

- Slowness while performing DML operations
 - **Single Insert:** Frequent commits and rollbacks can cause slowness in replication.
 - **Batch Inserts:** Insert with advance data types [target Snowflake data types: TEXT and BINARY] can cause significant slowness in replication for data with plain text or binary JSON and XML.
 - **Single Update and Delete :** Frequent commits and rollbacks can cause slowness.

For additional information, see [Supported Operations and Objects for DML Replication](#).

Supported operations and objects for DDL replication

SharePlex does not support DDL operations and objects when replicating data from an Oracle source to a Snowflake target.

Oracle to SQL Server replication

SharePlex supports replication from Oracle to SQL Server, according to the details below.

Supported target operating systems

For information regarding supported source and target operating systems with specific database versions, see the [Compatibility Matrix for Supported Operating Systems and Target Platforms](#) section. To view compatibility across operating systems for remote replication, see [Compatibility Across Operating Systems \(Remote Collection and Posting\)](#).

Supported target versions and ODBC requirements

SQL Server 2016, 2017, 2019, 2022, 2025

ODBC driver requirement: ODBC 17.10.1.1-1 and 18.3.2.1-1

Supported target cloud platforms and databases

Amazon Web Services

Amazon EC2 (IaaS) Virtual Machine

Microsoft Azure

- Azure Virtual Machine (IaaS)
- Azure SQL Database
- Azure SQL Managed Instance

Supported data types

SharePlex supports the following data types for replication from Oracle to SQL Server:

Oracle	SQL Server
ANYDATA	VARIANT
BINARY_DOUBLE	FLOAT (53)
BINARY_FLOAT	FLOAT (24)
BLOB	VARBINARY (MAX)
CHAR (n)	CHAR (n)
CHAR (n CHAR)	CHAR (n)
CLOB	VARCHAR (MAX)
DATE	DATETIME2 (7)

Oracle	SQL Server
LONG	VARCHAR (MAX)
LONGRAW	VARBINARY (MAX)
NCHAR (n)	NCHAR (n)
NCLOB	NVARCHAR (MAX)
NUMBER	FLOAT (53)
NUMBER (p,0:)	NUMERIC (p,s)
NUMBER (p,0:)*	DECIMAL
NUMBER (p,s)	FLOAT (53)
NVARCHAR2 (n)	NVARCHAR (n)
RAW (n)	VARBINARY (n)
TIMESTAMP (8:9)	DATETIME2 (7)
TIMESTAMP (p)	DATETIME2 (p)
TIMESTAMP (8:9) WITH TIME ZONE	DATETIMEOFFSET (7)
TIMESTAMP (p) WITH TIME ZONE	DATETIMEOFFSET (p)
VARCHAR2 (n)	VARCHAR (n)
VARCHAR2 (n CHAR)	VARCHAR (n)

Conditions of support:

NUMBER (P, 0) - DECIMAL: If we add a new column with the Number data type in the Oracle source, the new column will be replicated with the Numeric data type to the SQL Server target.

See [Conditions of support](#) for the additional conditions for the above-mentioned supported data types.

Supported operations and objects for DML replication

SharePlex supports DML operations on tables and sequences, with some conditions. DML can be replicated from an Oracle source to an SQL Server target. For additional information, see [Supported Operations and Objects for DML Replication](#).

Supported operations and objects for DDL replication

SharePlex supports DDL operations on tables and sequences, with some conditions. DDL can be replicated from an Oracle source to an SQL Server target. For additional information, see [Oracle to open target DDL support](#).

System Requirements and Conditions of Support When Replicating from PostgreSQL

This chapter contains the requirements when capturing from a PostgreSQL database and replicating to supported target databases.

PostgreSQL source basics

This section contains the requirements for a PostgreSQL database as a source when capturing from a PostgreSQL database and replicating to supported target databases.

Supported operating systems

For information regarding supported source and target operating systems with specific database versions, see the [Compatibility Matrix for Supported Operating Systems and Target Platforms](#) section. To view compatibility across operating systems for remote replication, see [Compatibility Across Operating Systems \(Remote Collection and Posting\)](#).

Supported versions and ODBC requirements

- PostgreSQL 13.x, 14.x, 15.x, 16, 17, 18
- Enterprise Database (EDB) 15.x, 16
- Fujitsu Enterprise PostgreSQL 15 SP2, 16, and 17
- AlloyDB Omni 15.5.x

ODBC driver requirement:

ODBC drivers for Community Edition: postgresql13-odbc-13.02.0000, postgresql14-odbc-13.02.0000, postgresql15-odbc-16.00.0000, and postgresql16-odbc-16.00.0000

ODBC drivers for Enterprise Edition (EDB): edb-odbc-13.02.0000 and edb-odbc-16.00.0000.01

Supported cloud platforms and databases

Amazon Web Services

- Amazon EC2 (IaaS) Virtual Machine
- Amazon RDS for PostgreSQL
- Amazon Aurora

Microsoft Azure

- Azure Virtual Machine (IaaS)
- Azure Flexible Server

Google Cloud Platform

- Cloud SQL for PostgreSQL
- AlloyDB for PostgreSQL
- Google Cloud Virtual machine (IaaS)

PostgreSQL source basic conditions of support

Additional information about data types

The **errlog.sql** file logs column values only for basic data types and does not support logging for Large Object (LOB) or advanced or extended data types.

Logging is not supported for the following advanced or extended data types:

CHAR (size > 2000), VARCHAR (size > 4000 or unspecified length), TEXT, JSON, JSONB, BYTEA

Supported / non-supported SharePlex features for PostgreSQL as a source

The following table shows whether specific SharePlex features are supported for replication from PostgreSQL to Oracle and open targets .

SharePlex feature	Supported targets
reconcile command (target instantiation)	Oracle, PostgreSQL
compare/compare using and repair/repair using commands	Oracle, PostgreSQL
copy/copy using and append/append using commands	Not supported
Hash horizontally partitioned replication	PostgreSQL
Column-based horizontally partitioned replication	PostgreSQL
Vertically partitioned replication	PostgreSQL, Oracle
Column mapping	PostgreSQL, Oracle, SQL Server, Kafka, Snowflake

SharePlex feature	Supported targets
Key definition	PostgreSQL, Oracle
Build configuration with scripts	Not supported
Named queues	PostgreSQL, Oracle, SQL Server, Kafka, Snowflake
Commit Reduction (feature of Post Enhanced Performance)	PostgreSQL, Oracle, SQL Server, Kafka, Snowflake
Dependency Checking (feature of Post Enhanced Performance)	Not supported
Transformation	Oracle
Conflict resolution	PostgreSQL, Oracle
Peer-to-peer replication (bi-directional)	PostgreSQL, Oracle
Consolidated replication (many to one)	PostgreSQL, Oracle, SQL Server, Kafka, Snowflake
Broadcast replication (one to many)	PostgreSQL, Oracle, SQL Server, Kafka, Snowflake
High availability replication (active/passive bi-directional)	Not supported
Change tracking target (CDC)	Not supported
Data encryption	Not supported
Data compression	Not supported
SSH	PostgreSQL, Oracle, SQL Server, Kafka, Snowflake
auth_hosts file	Not supported
Monitoring scripts	Not supported
SNMP monitoring	Not supported
Continue posting on error (SP_OPX_CONT_ON_ERR)	PostgreSQL, SQL Server, Kafka, Snowflake
Suspend on out of sync errors (SP_OPX_OUT_OF_SYNC_SUSPEND)	PostgreSQL, SQL Server, Kafka, Snowflake
Reduced key (SP_OPX_REDUCED_KEY)	PostgreSQL, SQL Server, Kafka, Snowflake
Logical Transaction Rollback on out-of-sync transactions	Not supported
Tables without key ¹	PostgreSQL, Oracle, SQL Server, Kafka, Snowflake
Special characters ²	PostgreSQL, Oracle, SQL Server, Kafka, Snowflake

Conditions of support:

1. Data inconsistency is likely to occur in replication or compare-repair processes when SharePlex replication involves tables containing non-key columns with duplicate data.
2. SharePlex supports special characters like hyphen (-), underscore (_), and plus (+) in PostgreSQL database names, as well as a dot (.), but other PostgreSQL objects, such as column names, do not support all special characters.

Supported and non-supported key features for physical and logical slots

The table below presents information on the metrics that are supported and not supported for physical and logical slots in on-premises and PostgreSQL Database as a Service environments.

NOTE: SharePlex supports logical replication with pgoutput plugin only.

SharePlex Features	PostgreSQL On-Prem/Cloud VM/EDB (Enterprise Database)		PGDB as a Service AWS-RDS and Aurora, Azure Flexi server
	Physical Replication	Logical Replication (pgoutput plugin)	Logical Replication (pgoutput plugin)
Activate with LSN	Supported	Not supported	Not supported
HA Cluster Replication with failover	Applicable with On-prem PostgreSQL database CrunchyData*	Not supported	Applicable only with Azure Flexi server using the pg_failover_slots extension; it is not supported with AWS-RDS and Aurora.
Horizontal and Vertical Partitioning	Supported	Supported	Supported
Utilities and Commands	Supported	Supported	Supported
Database level Table Partitioning	Supported	Supported	Supported
Bi-Directional Replication	Supported	Supported	Supported
DDL Support	Not supported	Not supported	Not supported
Replication Performance	No Lag	Minimal Lag	Minimal Lag
Insert using PostgreSQL Copy command	Not supported	Not supported	Not supported

* The **HA Cluster Replication with Failover** feature is not supported with PostgreSQL Enterprise Database (EDB).

LIMITATIONS:

The following limitations are observed related to the TRUNCATE operation:

- Applicable only for physical replication. If the truncate operation is performed on a table in replication, the Capture process ignores the DML operations performed on the table until the commit for the truncate operation is received or processed by the Capture process. Therefore, TRUNCATE should either be performed with auto-commit enabled or both TRUNCATE and COMMIT should be executed without any DML operations in between on the table.
- Applicable only for logical replication. In bi-directional replication, the bulk delete operations performed immediately after a TRUNCATE operation are processed with some delay by the Capture processes. There is no data inconsistency once the bulk delete operations are processed.

PostgreSQL to Kafka replication

SharePlex supports replication from PostgreSQL to Kafka, according to the details below.

Supported operating systems

For information regarding supported source and target operating systems with specific database versions, see the [Compatibility Matrix for Supported Operating Systems and Target Platforms](#) section. To view compatibility across operating systems for remote replication, see [Compatibility Across Operating Systems \(Remote Collection and Posting\)](#).

Supported Kafka targets

- Apache Kafka 3.6.1 and 3.8
- Confluent Kafka 7.6

We test and reproduce issues against:

- Apache Kafka
- Confluent Kafka

NOTE: If you would like to use a different vendor who provides their own Kafka distribution or provides a Kafka compliant interface, you are welcome to do so. From a support perspective, our support and development teams will share any Kafka broker errors that SharePlex receives and also ensure SharePlex itself is working properly to capture data, the target configuration formats in SharePlex are correct, and the SharePlex poster is posting or attempting to post according to the Kafka versions under support. If there are SharePlex issues with Kafka support that can be reproduced on Apache Kafka or otherwise demonstrated to be definitely associated with SharePlex, our team will address those as standard Kafka issues.

Supported formats

- XML format

For XML supported data type information, see [XML format supported data types](#).

- JSON format

For JSON supported data type information, see [JSON format supported data types](#).

XML format supported data types

SharePlex supports the following data types for replication from PostgreSQL to Kafka in XML format:

PostgreSQL	Kafka (XML format)
SMALLINT	Decimal
INT	Decimal
BIGINT	Decimal
REAL	Decimal
DOUBLE PRECISION	Decimal
NUMERIC	Decimal
CHAR	String
VARCHAR	String
TEXT	String
BYTEA	Base64Binary
DATE	DateTime
TIME	Time
TIME WITH TIME ZONE	Time
TIMESTAMP	DateTime
TIMESTAMP WITH TIME ZONE	DateTimeStamp
BOOLEAN	String
JSON/JSONB	String

JSON format supported data types

SharePlex supports the following data types for replication from PostgreSQL to Kafka in JSON format:

PostgreSQL	Kafka (JSON format)
SMALLINT	Number
INT	Number
BIGINT	Number
REAL	Number
DOUBLE PRECISION	Number
NUMERIC	Number
CHAR	String
VARCHAR	String

PostgreSQL	Kafka (JSON format)
TEXT	String
BYTEA	String containing base64 encoded data
DATE	String containing date
TIME	String containing time
TIME WITH TIME ZONE	String containing time
TIMESTAMP	String containing timestamp
TIMESTAMP WITH TIME ZONE	String containing timestamp
BOOLEAN	String
JSON/JSONB	String

Supported DML operations

SharePlex supports DML operations on tables. DML can be replicated from a PostgreSQL source to a kafka target.

Tables

SharePlex supports the following DML operations on tables:

- Singular and bulk operation - Insert
- Singular and bulk operation - Update with key(s)/ non key(s)
- Singular and bulk operation - Delete with key(s)
- Above operations with rollback/savepoint

Supported operations and objects for DDL replication

Currently, SharePlex does not support DDL operations when replicating data from a PostgreSQL source to a Kafka target. It only supports tables as objects for data replication.

PostgreSQL to Oracle replication

SharePlex supports replication from PostgreSQL to Oracle, according to the details below.

Supported target operating systems

The following operating systems are supported from PostgreSQL to Oracle database. SharePlex supports only the 64-bit version of the listed operating systems.

Local SharePlex installation is supported on the below platforms:

- AIX 7.3
- HP-UX 11.31 Itanium
- Oracle Linux 7.x, 8.x, and 9.x
- RHEL 8.x and 9.x
- CentOS Linux 7.x
- Oracle Solaris SPARC 11.4
- SuSE SLES 12.x and 15.x
- Rocky Linux 8.x
- Ubuntu 22.04
- Windows 2019 and 2022*

***NOTE:** Compare and Repair commands are not supported for PostgreSQL or Oracle on the Windows platform.

Remote replication from the following operating systems is supported:

- AIX 7.3
- HP-UX 11.31 Itanium
- Oracle Linux 7.x and 8.x
- RHEL 8.x and 9.x
- CentOS Linux 7.x
- Oracle Solaris SPARC 11
- Rocky Linux 8.x
- SuSE SLES 12.x and 15.x
- Ubuntu 22.04

Supported target operating systems via remote replication:

All platforms listed above, plus Windows Server 2019 and 2022, are supported via remote replication.

Supported target database versions

- Oracle 19c, 21c, 23ai¹ and 26ai²
- Oracle ADB for autonomous transaction processing database 19c

¹Conditions of Support for Oracle 23ai:

- Oracle 23ai has been renamed to 26ai and includes additional features. Oracle 23ai is no longer available for new installations. However, SharePlex continues to support Oracle 23ai for customers who have already installed it.
- Oracle 23ai is supported on **DBCS**, **ExaCS/CC**, and **Oracle On-premises Exadata** platforms.
- On Oracle 23ai, the **Copy/Append** command is not supported with encrypted tablespaces.

For detailed notes on the supported Oracle versions, see the **Notes** section under [Supported target versions for Oracle-to-Oracle replication](#).

²See [Conditions of Support](#) for Oracle 26ai for details on support conditions.

Supported target cloud platforms

Oracle Cloud Infrastructure

- Oracle Exadata Cloud Service (ExaCS)
- Oracle Exadata Cloud@Customer (ExaCC)
- Oracle Database Cloud Service (DBCS)
 - Enterprise Standard Edition
 - Enterprise Edition High Performance
 - Enterprise Edition Extreme Performance
- Oracle Compute (IaaS) Virtual Machines and Bare Metal

For information on the conditions of support for Oracle Cloud Infrastructure, see the [Conditions of support](#) subsection added under **Supported Target Cloud Platforms** in the **Oracle-to-Oracle replication** section.

Amazon Web Services

- Amazon RDS for Oracle
- Amazon EC2 (IaaS) Virtual Machine
- Oracle Database@AWS

Microsoft Azure

- Azure Virtual Machine (IaaS)
- Oracle Database@Azure

Google Cloud Platform

- Google Cloud Virtual machine (IaaS)
- Oracle Database@GCP

Supported character set

UTF 8

Supported data types

SharePlex supports the following data types for replication from PostgreSQL to Oracle:

PostgreSQL	Oracle
INT	NUMBER / INT
REAL	BINARY_FLOAT / NUMBER
SMALLINT	NUMBER
BIGINT	NUMBER
NUMERIC	NUMBER
DOUBLE PRECISION	BINARY_DOUBLE / NUMBER
CHAR(1:2000)	CHAR(n)
CHAR(2001:)	CLOB
CHAR(1:1000)	NCHAR(n)
VARCHAR(1:4000)	VARCHAR2(n)
VARCHAR(4001:)	CLOB
VARCHAR	CLOB
VARCHAR(1:2000)	NVARCHAR2(n)
TEXT	CLOB / NCLOB
DATE	DATE
TIMESTAMP(0)	DATE
TIMESTAMP(0)	TIMESTAMP(0)
TIMESTAMP	TIMESTAMP / TIMESTAMP [(fractional_seconds_precision)] WITH LOCAL TIME ZONE
TIMESTAMP WITH TIME ZONE	TIMESTAMP WITH TIME ZONE

PostgreSQL	Oracle
BOOLEAN	CHAR (1)*
BYTEA	BLOB

***NOTE:** For PostgreSQL Physical or Logical replication, BOOLEAN values will be replicated as 1/0 in a CHAR(1) column on the Oracle target.

SharePlex supports the following PostgreSQL data types for replication from PostgreSQL to Oracle when conflict resolution is configured:

- VARCHAR
- SMALLINT
- INT
- BIGINT
- NUMERIC
- DATE
- CHAR
- TIMESTAMP(0)
- TIMESTAMP
- TIMESTAMP WITH THE TIME ZONE
- TIME
- TIME WITH TIME ZONE
- BOOLEAN

Supported DML operations

SharePlex supports DML operations on tables. DML can be replicated from a PostgreSQL source to an Oracle target.

Tables

SharePlex supports the following DML operations on tables:

- Singular and bulk operation - Insert
- Singular and bulk operation - Update with key(s)/ non key(s)
- Singular and bulk operation - Delete with key(s)
- Above operations with rollback/savepoint

The target table must support the column types that are being replicated from the source PostgreSQL table.

Supported operations and objects for DDL replication

Currently, SharePlex does not support DDL operations when replicating data from a PostgreSQL source to an Oracle target. It only supports tables as objects for data replication.

PostgreSQL to PostgreSQL replication

SharePlex supports replication from PostgreSQL to PostgreSQL , according to the details below.

Supported target operating systems

For information regarding supported source and target operating systems with specific database versions, see the [Compatibility Matrix for Supported Operating Systems and Target Platforms](#) section. To view compatibility across operating systems for remote replication, see [Compatibility Across Operating Systems \(Remote Collection and Posting\)](#).

Supported target versions and ODBC requirements

- PostgreSQL 13.x, 14.x, 15.x, 16, 17, 18
- Enterprise Database (EDB) 15.x, 16
- Fujitsu Enterprise PostgreSQL 15 SP2, 16, and 17
- AlloyDB Omni 15.5.x

ODBC driver requirement:

ODBC drivers for Community Edition: postgresql13-odbc-13.02.0000, postgresql14-odbc-13.02.0000, postgresql15-odbc-16.00.0000, and postgresql16-odbc-16.00.0000

ODBC drivers for Enterprise Edition (EDB): edb-odbc-13.02.0000 and edb-odbc-16.00.0000.01

Supported target cloud platforms

Amazon Web Services:

- Amazon EC2 (IaaS) Virtual Machine
- Amazon RDS for PostgreSQL
- Amazon Aurora

Microsoft Azure:

- Azure Virtual Machine (IaaS)
- Azure Flexible Server

Google Cloud Platform:

- Cloud SQL for PostgreSQL
- AlloyDB for PostgreSQL

Supported character set

UTF 8

Supported data types

SharePlex PostgreSQL supports the following data types for replication from PostgreSQL to PostgreSQL:

- CHAR
- VARCHAR
- TEXT
- SMALLINT
- INT
- BIGINT
- NUMERIC
- REAL
- DOUBLE PRECISION
- DATE
- TIMESTAMP (0)
- TIMESTAMP
- TIMESTAMP WITH TIME ZONE
- BOOLEAN
- BYTEA
- TIME
- TIME WITH TIME ZONE
- JSON
- JSONB
- UUID

LIMITATIONS:

- The JSON & JSONB data types are supported only with logical replication.
- Columns with the JSON and JSONB data types are not supported when defining a unique key.
- Partition keys defined on JSON and JSONB data type columns are not supported for replicating partitioned table data.

- A table containing columns with data types such as VARCHAR > 2k, VARCHAR without specified length, TEXT, BYTEA, JSON, and JSONB, without a defined key, and where basic data type columns are non-key columns with duplicate data across multiple rows, can result in data inconsistency during the Repair process.
- Custom conflict resolution supports large data types such as CHAR > 2000, VARCHAR > 4000 (or without a specified length), TEXT, JSON, JSONB, and BYTEA. For **UPDATE** and **DELETE** operations, the old (before-image) value is not populated for these data types.
- In custom conflict resolution, for the BYTEA data type, the data is converted to **Base64** format before being populated, as binary data cannot be stored in the `old_value` and `new_value` fields, which are of type VARCHAR as defined in `sp_cr.col_def_typ`.

Supported DML operations

SharePlex supports DML operations on tables. DML can be replicated from a PostgreSQL source to a PostgreSQL target.

Tables

SharePlex supports the following DML operations on tables:

- Singular and bulk operation - Insert
- Singular and bulk operation - Update with key(s)/ non key(s)
- Singular and bulk operation - Delete with key(s)
- Above operations with rollback/savepoint

The target table must support the column types that are being replicated from the source PostgreSQL table.

Supported operations and objects for DDL replication

Currently, SharePlex does not support DDL operations when replicating data from a PostgreSQL source to a PostgreSQL target. It only supports tables as objects for data replication.

PostgreSQL to Snowflake replication

SharePlex supports replication from PostgreSQL to Snowflake, according to the details below.

Supported operating systems

For information regarding supported source and target operating systems with specific database versions, see the [Compatibility Matrix for Supported Operating Systems and Target Platforms](#) section. To view compatibility across operating systems for remote replication, see [Compatibility Across Operating Systems \(Remote Collection and Posting\)](#).

Supported target versions and ODBC requirements

Snowflake 8.38.2

ODBC driver requirement: from Snowflake 3.1.4 to 3.8

Supported target cloud platforms

- Microsoft Azure
- Amazon Web Services

Supported data types

SharePlex supports the following data types for replication from PostgreSQL to Snowflake:

PostgreSQL	Snowflake
TEXT	TEXT
INT	INT,INTEGER,NUMBER
CHAR(1:2000)	VARCHAR(n)
CHAR(2001:)	VARCHAR(n)
CHAR(n)	CHAR(n)
VARCHAR(1:4000)	VARCHAR(n)
VARCHAR(4001:)	VARCHAR(n)
VARCHAR	VARCHAR(n)
REAL	REAL
SMALLINT	SMALLINT
BIGINT	BIGINT
NUMERIC (whole number without fraction)	NUMERIC, DECIMAL

PostgreSQL	Snowflake
NUMERIC (fractional number)	FLOAT
DATE	DATE
DOUBLE PRECISION	DOUBLE PRECISION
TIMESTAMP	TIMESTAMP
TIMESTAMP_TZ	TIMESTAMP_TZ
BOOLEAN	BOOLEAN
TIME	TIME

Conditions of support

- **Char(n) data type** - In PostgreSQL, Char(n) is a fixed-size data type. If you insert char data with a length less than "n" into the "Char(n)" column, the remaining slots (n - length) are padded with space to occupy the complete "n" memory positions. Snowflake uses VARCHAR(n) for char storage since Snowflake lacks a comparable fixed-length character data type and only saves char data up to its length. Live replication will ensure that char column data is correctly copied. However, if users are manually inserting data into Snowflake for the equivalent of a Char(n) PostgreSQL column, then the user will need to handle padding as well to occupy the full "n" length so that data will be in sync in both the source and target database.
- **Text data types** - Snowflake Text data types have size limitation of 8 MB, so PostgreSQL's TEXT data type replication will be restricted to max 8 MB size limit of equivalent counterpart. Refer table below.

PostgreSQL Data type	Max Size	Snowflake Data type	Max Size
TEXT	unlimited	TEXT	8 MB of unicode chars

Supported operations and objects for DML replication

SharePlex supports DML operations on tables, with some conditions. DML can be replicated from an PostgreSQL source to a Snowflake target.

Tables

SharePlex supports the following DML operations on tables when replicating data from an PostgreSQL source to the Snowflake target:

- Singular and bulk operation - Insert with key(s)/ non key(s)
- Singular and bulk operation - Update with key(s)/ non key(s)
- Singular and bulk operation - Delete with key(s)/ non key(s)

LIMITATIONS:

The following DML operations related limitations are observed while replicating data from PostgreSQL to Snowflake:

- Slowness while performing DML operations
 - **Single Insert:** Frequent commits and rollbacks can cause slowness in replication.
 - **Batch Inserts:** Insert with advance data types [target Snowflake data types: TEXT and BINARY] can cause significant slowness in replication for data with plain text or binary JSON and XML.
 - **Single Update and Delete :** Frequent commits and rollbacks can cause slowness.

For additional information, see [Supported Operations and Objects for DML Replication](#).

Supported operations and objects for DDL replication

Currently, SharePlex does not support DDL operations when replicating data from a PostgreSQL source to a Snowflake target. It only supports tables as objects for data replication.

PostgreSQL to SQL Server replication

SharePlex supports replication from PostgreSQL to SQL Server, according to the details below.

Supported target operating systems

For information regarding supported source and target operating systems with specific database versions, see the [Compatibility Matrix for Supported Operating Systems and Target Platforms](#) section. To view compatibility across operating systems for remote replication, see [Compatibility Across Operating Systems \(Remote Collection and Posting\)](#).

Supported target versions and ODBC requirements

SQL Server 2016, 2017, 2019, 2022, 2025

ODBC driver requirement: ODBC 17.10.1.1-1 and 18.3.2.1-1

Supported target cloud platforms and databases

Amazon Web Services

Amazon EC2 (IaaS) Virtual Machine

Microsoft Azure

- Azure Virtual Machine (IaaS)
- Azure SQL Database
- Azure SQL Managed Instance

Supported data types

SharePlex supports the following data types for replication from PostgreSQL to SQL Server:

PostgreSQL	SQL Server
INT	INT
REAL	REAL
SMALLINT	SMALLINT
BIGINT	BIGINT
NUMERIC / DECIMAL	NUMERIC / DECIMAL
DOUBLE PRECISION	FLOAT
CHAR (1:8000)	CHAR(n)

PostgreSQL	SQL Server
CHAR (8001:)	VARCHAR (MAX)
CHAR (1:2000)	NCHAR (n)
VARCHAR (1:8000)	VARCHAR (n)
VARCHAR (8001:)	VARCHAR (MAX)
VARCHAR(1:2000)	NVARCHAR (n)
VARCHAR	VARCHAR (MAX) / TEXT
TEXT	TEXT / NTEXT / VARCHAR(MAX)
DATE	DATE
TIMESTAMP (p)	DATETIME2 (p)
TIMESTAMP	DATETIME2
TIMESTAMP WITH TIME ZONE	DATETIMEOFFSET

Supported DML operations

SharePlex supports DML operations on tables. DML can be replicated from a PostgreSQL source to an SQL Server target.

Tables

SharePlex supports the following DML operations on tables:

- Singular and bulk operation - Insert
- Singular and bulk operation - Update with key(s)/ non key(s)
- Singular and bulk operation - Delete with key(s)
- Above operations with rollback/savepoint

The target table must support the column types that are being replicated from the source PostgreSQL table.

Supported operations and objects for DDL replication

Currently, SharePlex does not support DDL operations when replicating data from a PostgreSQL source to an SQL Server target. It only supports tables as objects for data replication.

System Requirements and Conditions of Support When Replicating from PostgreSQL Database as a Service

This chapter contains the requirements when capturing from a PostgreSQL database and replicating to supported target databases.

PostgreSQL Database as a Service as source and target basics

SharePlex supports replication for the PostgreSQL Database as a Service as source, according to the details below.

Supported operating systems

For information regarding supported source and target operating systems with specific database versions, see the [Compatibility Matrix for Supported Operating Systems and Target Platforms](#) section. To view compatibility across operating systems for remote replication, see [Compatibility Across Operating Systems \(Remote Collection and Posting\)](#).

Supported cloud platforms and databases

Amazon Web Services

- Amazon RDS for PostgreSQL
- Amazon Aurora

Microsoft Azure

Azure Database for PostgreSQL Flexible Server

Google Cloud Platform

- Cloud SQL for PostgreSQL
- Alloy DB

NOTE: PostgreSQL Database as a Service supports only logical replication.

Supported PostgreSQL versions

PostgreSQL 13.x, 14.x, 15.x, 16

ODBC driver requirement

ODBC drivers for Community Edition: postgresql13-odbc-13.02.0000, postgresql14-odbc-13.02.0000, postgresql15-odbc-16.00.0000, and postgresql16-odbc-16.00.0000

Supported data types

- CHAR
- VARCHAR
- SMALLINT
- INT
- BIGINT
- NUMERIC
- REAL
- DOUBLE PRECISION
- DATE
- TIMESTAMP [p]
- TIMESTAMP
- TIMESTAMP [p] [WITH TIME ZONE]
- TEXT

Supported DML operations

SharePlex supports DML operations on tables. DML can be replicated from a PostgreSQL Database as a Service as source to a PostgreSQL target.

Tables

SharePlex supports the following DML operations on tables:

- Singular and bulk operation - Insert
- Singular and bulk operation - Update with key(s)/ non key(s)
- Singular and bulk operation - Delete with key(s)
- Above operations with rollback/savepoint

The target table must support the column types that are being replicated from the source PostgreSQL table.

Supported operations and objects for DDL replication

Currently, SharePlex does not support DDL operations when replicating data from a PostgreSQL Database as a Service as source to a PostgreSQL target. It only supports tables as objects for data replication.

PostgreSQL Database as a Service to Kafka replication

SharePlex supports replication from PostgreSQL Database as a Service to Kafka, according to the details below.

Supported operating systems

For information regarding supported source and target operating systems with specific database versions, see the [Compatibility Matrix for Supported Operating Systems and Target Platforms](#) section. To view compatibility across operating systems for remote replication, see [Compatibility Across Operating Systems \(Remote Collection and Posting\)](#).

Supported Kafka targets

- Apache Kafka 3.6.1 and 3.8
- Confluent Kafka 7.6

We test and reproduce issues against:

- Apache Kafka
- Confluent Kafka

NOTE: If you would like to use a different vendor who provides their own Kafka distribution or provides a Kafka compliant interface, you are welcome to do so. From a support perspective, our support and development teams will share any Kafka broker errors that SharePlex receives and also ensure SharePlex itself is working properly to capture data, the target configuration formats in SharePlex are correct, and the SharePlex poster is posting or attempting to post according to the Kafka versions under support. If there are SharePlex issues with Kafka support that can be reproduced on Apache Kafka or otherwise demonstrated to be definitely associated with SharePlex, our team will address those as standard Kafka issues.

Supported formats

- XML format

For XML supported data type information, see [XML format supported data types](#).

- JSON format

For JSON supported data type information, see [JSON format supported data types](#).

Supported DML operations

SharePlex supports DML operations on tables. DML can be replicated from a PostgreSQL Database as a Service as source to a Kafka target.

Tables

SharePlex supports the following DML operations on tables:

- Singular and bulk operation - Insert
- Singular and bulk operation - Update with key(s)/ non key(s)
- Singular and bulk operation - Delete with key(s)
- Above operations with rollback/savepoint

Supported operations and objects for DDL replication

SharePlex does not support DDL operations and objects when replicating data from a PostgreSQL Database as a Service as source to a Kafka target.

PostgreSQL Database as a Service to Oracle replication

SharePlex supports replication from PostgreSQL Database as a Service to Oracle, according to the details below.

Supported target operating systems

For information regarding supported source and target operating systems with specific database versions, see the [Compatibility Matrix for Supported Operating Systems and Target Platforms](#) section. To view compatibility across operating systems for remote replication, see [Compatibility Across Operating Systems \(Remote Collection and Posting\)](#).

Supported target database versions

- Oracle 19c, 21c, 23ai¹, 26ai²
- Oracle ADB for autonomous transaction processing database 19c.

¹Conditions of Support for Oracle 23ai:

- Oracle 23ai has been renamed to 26ai and includes additional features. Oracle 23ai is no longer available for new installations. However, SharePlex continues to support Oracle 23ai for customers who have already installed it.
- Oracle 23ai is supported on **DBCS**, **ExaCS/CC**, and **Oracle On-premises Exadata** platforms.
- On Oracle 23ai, the **Copy/Append** command is not supported with encrypted tablespaces.

For detailed notes on the supported Oracle versions, see the **Notes** section under [System Requirements and Conditions of Support When Replicating from Oracle](#) for **Oracle-to-Oracle replication**.

²See [Conditions of Support](#) for Oracle 26ai for details on support conditions.

Supported target cloud platforms and databases

Oracle Cloud Infrastructure

- Oracle Exadata Cloud Service (ExaCS)
- Oracle Exadata Cloud@Customer (ExaCC)
- Oracle Database Cloud Service (DBCS)
 - Enterprise Standard Edition
 - Enterprise Edition High Performance
 - Enterprise Edition Extreme Performance
- Oracle Compute (IaaS) Virtual Machines and Bare Metal

For information on the conditions of support for Oracle Cloud Infrastructure, see the [System Requirements and Conditions of Support When Replicating from Oracle](#) subsection added under **Supported Target Cloud Platforms** in the **Oracle-to-Oracle replication** section.

Amazon Web Services

- Amazon RDS for Oracle
- Amazon EC2 (IaaS) Virtual Machine
- Oracle Database@AWS

Microsoft Azure

- Azure Virtual Machine (IaaS)
- Oracle Database@Azure

Google Cloud Platform

- Google Cloud Virtual machine (IaaS)
- Oracle Database@GCP

Supported character set

UTF 8

Supported data types

SharePlex supports the following data types for replication from PostgreSQL Database as a Service to Oracle:

PostgreSQL	Oracle
INT	NUMBER / INT
REAL	BINARY_FLOAT / NUMBER
SMALLINT	NUMBER
BIGINT	NUMBER
NUMERIC	NUMBER
DOUBLE PRECISION	BINARY_DOUBLE / NUMBER
CHAR(1:2000)	CHAR(n)
CHAR(2001:)	CLOB
CHAR(1:1000)	NCHAR(n)
VARCHAR(1:4000)	VARCHAR2(n)
VARCHAR(4001:)	CLOB

PostgreSQL	Oracle
VARCHAR	CLOB
VARCHAR(1:2000)	NVARCHAR2(n)
TEXT	CLOB / NCLOB
DATE	DATE
TIMESTAMP(0)	DATE
TIMESTAMP(0)	TIMESTAMP(0)
TIMESTAMP	TIMESTAMP / TIMESTAMP [(fractional_seconds_precision)] WITH LOCAL TIME ZONE
TIMESTAMP WITH TIME ZONE	TIMESTAMP WITH TIME ZONE
BOOLEAN	CHAR (1)*
BYTEA	BLOB

***NOTE:** For PostgreSQL Physical or Logical replication, BOOLEAN values will be replicated as 1/0 in a CHAR(1) column on the Oracle target.

SharePlex supports the following PostgreSQL data types for replication from PostgreSQL Database as a Service to Oracle when conflict resolution is configured:

- VARCHAR
- SMALLINT
- INT
- BIGINT
- NUMERIC
- DATE
- CHAR
- TIMESTAMP(0)
- TIMESTAMP
- TIMESTAMP WITH THE TIME ZONE
- TIME
- TIME WITH TIME ZONE
- BOOLEAN

Supported DML operations

SharePlex supports DML operations on tables. DML can be replicated from a PostgreSQL Database as a Service to an Oracle target.

Tables

SharePlex supports the following DML operations on tables:

- Singular and bulk operation - Insert
- Singular and bulk operation - Update with key(s)/ non key(s)
- Singular and bulk operation - Delete with key(s)
- Above operations with rollback/savepoint

The target table must support the column types that are being replicated from the source PostgreSQL table.

Supported operations and objects for DDL replication

Currently, SharePlex does not support DDL operations when replicating data from a PostgreSQL Database as a Service as source to an Oracle target. It only supports tables as objects for data replication.

PostgreSQL Database as a Service to PostgreSQL replication

SharePlex supports replication from PostgreSQL Database as a Service to PostgreSQL, according to the details below.

Supported target operating systems

For information regarding supported source and target operating systems with specific database versions, see the [Compatibility Matrix for Supported Operating Systems and Target Platforms](#) section. To view compatibility across operating systems for remote replication, see [Compatibility Across Operating Systems \(Remote Collection and Posting\)](#).

Supported target versions and ODBC requirements

- PostgreSQL 13.x , 14.x, 15.x, 16, 17, 18
- Enterprise Database (EDB) 15.x 16
- Fujitsu Enterprise PostgreSQL 15 SP2, 16, 17
- AlloyDB Omni 15.5.x

ODBC driver requirement:

ODBC drivers for Community Edition: postgresql13-odbc-13.02.0000, postgresql14-odbc-13.02.0000, postgresql15-odbc-16.00.0000, and postgresql16-odbc-16.00.0000

ODBC drivers for Enterprise Edition (EDB): edb-odbc-13.02.0000 and edb-odbc-16.00.0000.01

Supported target cloud platforms and databases

Amazon Web Services:

- Amazon EC2 (IaaS) Virtual Machine
- Amazon RDS for PostgreSQL
- Amazon Aurora

Microsoft Azure:

- Azure Virtual Machine (IaaS)
- Azure Flexible Server

Google Cloud Platform:

- Cloud SQL for PostgreSQL
- AlloyDB for PostgreSQL

Supported character set

UTF 8

Supported data types

SharePlex PostgreSQL supports the following data types for replication from PostgreSQL Database as a Service to PostgreSQL:

- CHAR
- VARCHAR
- TEXT
- SMALLINT
- INT
- BIGINT
- NUMERIC
- REAL
- DOUBLE PRECISION
- DATE
- TIMESTAMP (0)
- TIMESTAMP
- TIMESTAMP WITH TIME ZONE
- BOOLEAN
- BYTEA
- TIME
- TIME WITH TIME ZONE
- UUID

Supported DML operations

SharePlex supports DML operations on tables. DML can be replicated from a PostgreSQL Database as a Service to a PostgreSQL target.

Tables

SharePlex supports the following DML operations on tables:

- Singular and bulk operation - Insert
- Singular and bulk operation - Update with key(s)/ non key(s)
- Singular and bulk operation - Delete with key(s)
- Above operations with rollback/savepoint

The target table must support the column types that are being replicated from the source PostgreSQL table.

Supported operations and objects for DDL replication

Currently, SharePlex does not support DDL operations when replicating data from a PostgreSQL Database as a Service as source to a PostgreSQL target. It only supports tables as objects for data replication.

PostgreSQL Database as a Service to Snowflake replication

SharePlex supports replication from PostgreSQL Database as a Service to Snowflake, according to the details below.

Supported operating systems

For information regarding supported source and target operating systems with specific database versions, see the [Compatibility Matrix for Supported Operating Systems and Target Platforms](#) section. To view compatibility across operating systems for remote replication, see [Compatibility Across Operating Systems \(Remote Collection and Posting\)](#).

Supported target versions and ODBC requirements

Snowflake 8.38.2

ODBC driver requirement: from Snowflake 3.1.4 to 3.8

Supported target cloud platforms

- Microsoft Azure
- Amazon Web Services

Supported data types

SharePlex supports the following data types for replication from PostgreSQL Database as a Service to Snowflake:

PostgreSQL	Snowflake
TEXT	TEXT
INT	INT,INTEGER,NUMBER
CHAR(1:2000)	VARCHAR(n)
CHAR(2001:)	VARCHAR(n)
CHAR(n)	CHAR(n)
VARCHAR(1:4000)	VARCHAR(n)
VARCHAR(4001:)	VARCHAR(n)
VARCHAR	VARCHAR(n)
REAL	REAL

PostgreSQL	Snowflake
SMALLINT	SMALLINT
BIGINT	BIGINT
NUMERIC (whole number without fraction)	NUMERIC, DECIMAL
NUMERIC (fractional number)	FLOAT
DATE	DATE
DOUBLE PRECISION	DOUBLE PRECISION
TIMESTAMP	TIMESTAMP
TIMESTAMP_TZ	TIMESTAMP_TZ
BOOLEAN	BOOLEAN
TIME	TIME

Conditions of support

- **Char(n) data type** - In PostgreSQL, Char(n) is a fixed-size data type. If you insert char data with a length less than "n" into the "Char(n)" column, the remaining slots (n - length) are padded with space to occupy the complete "n" memory positions. Snowflake uses VARCHAR(n) for char storage since Snowflake lacks a comparable fixed-length character data type and only saves char data up to its length. Live replication will ensure that char column data is correctly copied. However, if users are manually inserting data into Snowflake for the equivalent of a Char(n) PostgreSQL column, then the user will need to handle padding as well to occupy the full "n" length so that data will be in sync in both the source and target database.
- **Text data types** - Snowflake Text data types have size limitation of 8 MB, so PostgreSQL's TEXT data type replication will be restricted to max 8 MB size limit of equivalent counterpart. Refer table below.

PostgreSQL Data type	Max Size	Snowflake Data type	Max Size
TEXT	unlimited	TEXT	8 MB of unicode chars

See [Conditions of support](#) for the additional conditions of support for the above-mentioned supported data types.

Supported operations and objects for DML replication

SharePlex supports DML operations on tables, with some conditions. DML can be replicated from an PostgreSQL Database as a Service to a Snowflake target.

Tables

SharePlex supports the following DML operations on tables when replicating data from an PostgreSQL Database as a Service to the Snowflake target:

- Singular and bulk operation - Insert with key(s)/ non key(s)
- Singular and bulk operation - Update with key(s)/ non key(s)
- Singular and bulk operation - Delete with key(s)/ non key(s)

LIMITATIONS:

The following DML operations related limitations are observed while replicating data from PostgreSQL Database as a Service to Snowflake:

- Slowness while performing DML operations
 - **Single Insert:** Frequent commits and rollbacks can cause slowness in replication.
 - **Batch Inserts:** Insert with advance data types [target Snowflake data types: TEXT and BINARY] can cause significant slowness in replication for data with plain text or binary JSON and XML.
 - **Single Update and Delete :** Frequent commits and rollbacks can cause slowness.

For additional information, see [Supported Operations and Objects for DML Replication](#).

Supported operations and objects for DDL replication

Currently, SharePlex does not support DDL operations when replicating data from a PostgreSQL Database as a Service as source to a Snowflake target. It only supports tables as objects for data replication.

PostgreSQL Database as a Service to SQL Server replication

SharePlex supports replication from PostgreSQL Database as a Service to SQL Server, according to the details below.

Supported target operating systems

For information regarding supported source and target operating systems with specific database versions, see the [Compatibility Matrix for Supported Operating Systems and Target Platforms](#) section. To view compatibility across operating systems for remote replication, see [Compatibility Across Operating Systems \(Remote Collection and Posting\)](#).

Supported target versions and ODBC requirements

SQL Server 2016, 2017, 2019, 2022, 2025

ODBC driver requirement: ODBC 17.10.1.1-1 and 18.3.2.1-1

Supported target cloud platforms and databases

Amazon Web Services

Amazon EC2 (IaaS) Virtual Machine

Microsoft Azure

- Azure Virtual Machine (IaaS)
- Azure SQL Database
- Azure SQL Managed Instance

Supported data types

SharePlex supports the following data types for replication from PostgreSQL Database as a Service to SQL Server:

PostgreSQL	SQL Server
INT	INT
REAL	REAL
SMALLINT	SMALLINT
BIGINT	BIGINT
NUMERIC / DECIMAL	NUMERIC / DECIMAL

PostgreSQL	SQL Server
DOUBLE PRECISION	FLOAT
CHAR (1:8000)	CHAR(n)
CHAR (8001:)	VARCHAR (MAX)
CHAR (1:2000)	NCHAR (n)
VARCHAR (1:8000)	VARCHAR (n)
VARCHAR (8001:)	VARCHAR (MAX)
VARCHAR(1:2000)	NVARCHAR (n)
VARCHAR	VARCHAR (MAX) / TEXT
TEXT	TEXT / NTEXT / VARCHAR(MAX)
DATE	DATE
TIMESTAMP (p)	DATETIME2 (p)
TIMESTAMP	DATETIME2
TIMESTAMP WITH TIME ZONE	DATETIMEOFFSET

Supported DML operations

SharePlex supports DML operations on tables. DML can be replicated from a PostgreSQL Database as a Service to an SQL Server target.

Tables

SharePlex supports the following DML operations on tables:

- Singular and bulk operation - Insert
- Singular and bulk operation - Update with key(s)/ non key(s)
- Singular and bulk operation - Delete with key(s)
- Above operations with rollback/savepoint

The target table must support the column types that are being replicated from the source PostgreSQL table.

Supported operations and objects for DDL replication

Currently, SharePlex does not support DDL operations when replicating data from a PostgreSQL Database as a Service as source to an SQL Server target. It only supports tables as objects for data replication.

Known Issues in this Release

The following is a list of known issues, including those attributed to third-party products, known to exist at the time of release.

Issue ID	Known Issues	Component/ Feature
SPSQL-13204	The Capture process intermittently fails with an error when performing DML operations with large integer values during PostgreSQL-to-PostgreSQL physical replication.	Capture
SPSQL-13153	SharePlex is incorrectly replicating XML data with explicit and implicit XML namespaces from Oracle to Oracle.	XML data
SPSQL-12664	<p>The Installer Repair operation fails during SharePlex un-installation on Windows, with tar extraction errors: tar extraction failed: cygwin64/usr/sbin/cygserver.exe: Can't unlink already-existing object: Permission denied. This occurs due to permission issues while replacing existing files when the cygserver service is running.</p> <p>WORKAROUND</p> <p>To restore functionality: Stop the <code>cygserver</code> service before performing the repair. If the repair has already failed and Sp_Client is not working, the user must reinstall SharePlex to restore the required binaries and registry entries.</p>	Windows Installer
SPSQL-10161	During Oracle-to-Oracle replication, the Repair process fails when generating the SQL query for the UDT (User-Defined Table) data type if the source and target schemas are different.	Repair
SPO-25214	SharePlex was using the default <code>ORACLE_SID</code> even when the user has explicitly entered a new SID during ora_setup prompt for bequeath connections.	ora_setup
SPSQL-11040	<p>When two Oracle instances are configured using BEQUEATH (BEQ) connections, SharePlex can connect to only one local Oracle instance per OS user session. Since <code>ORACLE_SID</code> can reference only one Oracle instance within a single user environment, it is not connecting to multiple local Oracle instances simultaneously using BEQ under the same OS user.</p> <p>WORKAROUNDS: To work with two different database instances, configure one of the following:</p> <ul style="list-style-type: none"> • Two Separate TNS Entries Define distinct entries in <code>tnsnames.ora</code>, each pointing to a different Oracle instance. • Mixed Connection Method Use BEQ for one instance and a listener-based (TCP) TNS connection for the other. • User-Specific ORACLE_SID Setting Set <code>ORACLE_SID</code> as a user-specific environment variable so different users (or sessions) can connect to different Oracle instances. 	BEQUEATH (BEQ) connection

Issue ID	Known Issues	Component/ Feature
SPSQL-11137	<p>Unable to uninstall SharePlex using Add or remove programs on Windows Server 2025.</p> <p>WORKAROUND: Uninstall SharePlex by running unwise.exe located in the SharePlex installation directory.</p>	Un-installation
SPSQL-11132	<p>When users try to launch the SpUtils or SpClient utility on Windows Server 2025, the background console for SpUtils and SpClient also opens along with the main utility application.</p> <p>WORKAROUND: Go to Settings > Terminal settings, and set the Terminal option to Windows Console Host.</p>	SpUtils, SpClient
SPSQL-10702	<p>When comparing tables in replication, setting the <code>SP_SYS_JOB_HISTORY_RETENTION</code> parameter to 1 and executing <code>clear history jobid</code> does not remove all logs as expected based on the parameter value.</p>	Compare
SPSQL-10281	<p>SharePlex displays incorrect update count in Show Post Details when update operations are performed on table without any key, or update of key on table having key/s. These updates result in Delete+Insert transaction in Parquet File.</p>	Parquet
SPSQL-8400	<p>In the Compare/Repair process, the row count in the Oracle table might be outdated because it is initially fetched from the system table <code>sys.tab\$</code>, which is not updated in real-time and depends on the DB stats analyzer process. As a result, users may encounter the error <code>source vs target table size difference too large</code> incorrectly in some cases.</p> <p>WORKAROUND: Either wait for the row count to be updated in the system table by the stats analyzer process, or use the override option as suggested.</p>	Compare/Repair
SPSQL-4858	<p>SharePlex displays the <code>ORA-22990: LOB locators cannot span transactions</code> error, and Compare results show out-of-sync data when users perform DML operations on data in replication after moving a LOB segment. This issue is observed on Oracle 23ai platform.</p>	Compare
SPSQL-5252	<p>In the bi-directional replication of data from PostgreSQL 14.7 Google Cloud Platform to Oracle, the Poster process stops with an error when a user-defined procedure tries to resolve the conflicts that occurred on columns with a VARCHAR data type.</p> <p>This issue is observed if the update statement is triggered simultaneously in the same row on both source and target.</p>	Bi-directional replication
SPSQL-4764	<p>The Poster process fails to replicate data from Oracle 19c to the file target after a Truncate operation is performed on the replicated data. This issue specifically affects tables containing BFILE and SDO_GEOMETRY columns.</p>	Poster
SPSQL-4982	<p>When there are multiple Named Queues set up in replication, after activating the config, the SharePlex Poster process displays the <code>execute select pg_replication_origin_create ('sp_post_2600_7'); failed</code> error upon its initial startup. However, after displaying the error, SharePlex automatically restarts the Poster process to resolve the issue.</p>	Poster

Issue ID	Known Issues	Component/ Feature
SPSQL-8404	The Poster process stops with an error when users try to replicate a horizontally partitioned table with a case-sensitive schema, table name, and a single partitioning scheme from the Oracle to the PostgreSQL database. WORKAROUND: Create separate partitioning schemes for each target table name and create a separate entry for each table in the config file.	Poster
SPSQL-6104	The Poster process stopped due to an <code>ORA-40441 error: JSON syntax error</code> , triggered when users insert bulk JSON data for CLOB/NCLOB storage, which is stored as BASICFILE.	Poster
SPSQL-5630	The Poster process stops due to an error when only the target table has a check constraint, and the inserted data violates that check constraint.	Poster
SPSQL-5454	The Poster process stops after activating the configuration for a hash partition on a target VM that has a '-' in its hostname. This issue is observed on the Windows platform.	Poster
SPSQL-5459	When inserting the same rows multiple times into a table without a primary key and then updating all rows, an OOS (out-of-sync) error message appears in the Poster log. This issue occurs for both tables with normal names and table names longer than 30 characters during Oracle to PostgreSQL replication.	Poster
SPSQL-6117	The undo_provision utility is not fully reverting all the changes made by the Provision utility.	Provision
SPSQL-5894	When the Capture, Export, and Post queues have messages, and users run the Purge Config command, all queues are emptied as expected. However, error messages are observed in the source event logs.	Purge Config
SPO-24945	During Oracle to Kafka replication, the schema records of all tables are being replicated, not just the tables being replicated from Oracle to Kafka. WORKAROUND: Set the schema value to 'no' to avoid sending the schema record. However, validate whether the schema record is used internally before applying this setting.	Kafka
SPO-24922	SharePlex does not support the RAISE INFO message on PostgreSQL databases. Poster stops with the <code>Post stops error=-1 when trigger issues a RAISE [LABEL] error message</code> .	RAISE INFO message
SPO-21339	The Capture process is getting stuck when users change the Oracle compatibility parameter from 11g to 12c. This issue is observed on the 12c 4 node RAC database.	Capture
SPO-20451	Compare/Repair Using [schema].[table] may not work on AIX 7.2 with Oracle 19c due to establishing a network connection.	Compare
SPO-20843	Copy job status shows 'Locked' even when completed.	Copy/ Append
SPO-21993	While activating a config file with an Oracle SCN number, users are not able to delete a column in a DDL activity.	DDL Drop Column
SPO-20205	Oracle to Kafka supported data format:	Kafka

Issue ID	Known Issues	Component/ Feature
	Kafka replicates the varray column data only in the XML format. Currently, Kafka does not replicate the varray column data in the JSON format.	
SPO-20842	On Oracle 19c processing large n-items can lead to OOS and/or missing commits.	LOBs, VARRAYs, XML
SPSQL-4971	The tables are getting out-of-sync after users perform bulk DML operations on the CLOB column data. This issue has been observed while working on Oracle 21c.	Oracle 21c
SPO-22517	Performance issue is observed during replication while using partition table over the cloud for MySQL and PostgreSQL.	Partition table
SPSQL-6609	SharePlex displays an error when users attempt to create a database name in lowercase during <code>pg_setup</code> that matches an existing database name in uppercase on the system.	pg_setup
SPSQL-4982	The SharePlex Poster process displays the <code>Poster: execute select pg_replication_origin_create ('sp_post_xxxx_x');</code> failed error when creating an origin with logical replication for PostgreSQL to PostgreSQL replication.	Poster
SPSQL-5252	The Poster stops due to an error when attempting to resolve conflicts on VARCHAR columns in a PostgreSQL-Oracle bi-directional setup using a user-defined conflict resolution procedure.	Poster
SPO-19048	Replication of tables with varray columns from an Oracle source to a non-Oracle target can get out of sync because Oracle doesn't include key information on updates.	varray columns

Third-party known issues

Issue ID	Known Issue	Component/ Feature
29865658	On Windows Server, Oracle 19c versions below 19.6 have an Oracle bug (29865658) that causes the SharePlex ora_setup , Reader , and Poster processes to get stuck. This bug is fixed in version 19.6 and later. To avoid this issue with SharePlex, either upgrade the Oracle 19c database to version 19.6 or higher. Users need to contact Oracle to obtain a patch for bug 29865658 or set the <code>CLIENT_STATISTICS_LEVEL</code> database parameter to 'OFF'.	Oracle
SR 3-33906406631	After moving the LOB segment, users may encounter an 'ORA-22275' or 'ORA-22990' Oracle error when performing DML operations. Additionally, the Compare result may be displayed as out of sync. This issue is observed intermittently on Oracle 21c. See Oracle bug report SR 3-33906406631.	Oracle
101806	When replicating data from Oracle to MySQL, SharePlex Poster displays an error after performing the Update operation on columns with the data type integer and column values that are multiples of 1000. This issue is related to a defect in the MySQL database: https://bugs.mysql.com/bug.php?id=101806	MySQL

Licensing

To use the license utilities, such as to view, add, or remove license keys, see the **SharePlex License Utilities** section in the [SharePlex Reference guide](#) or [SharePlex Installation and Setup Guide](#). For more information, contact your account manager.

SharePlex 11 requires new license keys.

License keys issued for versions prior to 11.0 will be incompatible with SharePlex 11.x. Existing customers should obtain a new license key before installing and/or upgrading to SharePlex 11.x. To obtain a new license key, please refer to the [Licensing Assistance](#) page on the Support Portal.

SharePlex 11.x are available for installation on Linux and Unix platforms.

Customers who wish to replicate to and from sources and targets that run on Windows can either use the 10.x or 12.0 versions of SharePlex or use remote replication, where the SharePlex software runs on a Linux server. Please see the [System Requirements](#) sections for details on supported source/target combinations with remote replication.

NOTE: To upgrade from SharePlex 10.x to 11.0 or 11.1, a new SharePlex license key must be requested. However, to upgrade from SharePlex 11.0 to 11.1, the existing effective SharePlex license key can be utilized.

Understanding SharePlex licensing and platform requirements

SharePlex licenses have validity and usage limits according to specific platforms. For example, you must have a PostgreSQL license to use a PostgreSQL database and a Kafka license to use the Kafka platform.

Additionally, SharePlex supports multiple keys for situations where customers need two platforms on one server. For example, if a user is replicating data from an Oracle source to a Kafka target, where one SharePlex instance is serving as both the source and target, the SharePlex server would require both Oracle and Kafka licenses.

Installing a trial version

To install a trial version of SharePlex, users need to select the **All Platforms** option when prompted during installation of SharePlex or while running the **splex_add_key** utility. For additional information, see the **Install SharePlex** section in the [SharePlex Installation Guide](#).

FIPS Compliance

SharePlex installations can be run on FIPS-enabled servers on the Linux platform. No FIPS-specific configurations are required to run SharePlex installations on FIPS-enabled servers.

CMVP Guidelines

To align with CMVP (Cryptographic Module Validation Program) guidelines and strengthen data security, SharePlex supports cryptographic operations using the OpenSSL FIPS provider on Linux platform. It ensures that AES encryption algorithms used within SharePlex are executed through a validated cryptographic module, meeting FIPS 140-3 standards.

SharePlex OpenSSL FIPs settings:

Component	Algorithm Used	Mode	Key Length	FIPS Compliance	Notes
Communication between SharePlex processes—such as COP to Command and Control, and data flow between Export and Import—can be secured. Refer to the <code>sp_security</code> section for instructions on enabling TLS security.	To make the FIPS provider the default, use the following OpenSSL calls: <pre>OSSL_PROVIDER_load(NULL, "fips"); EVP_set_default_properties(NULL, "fips=yes");</pre>	FIPS	256	Yes	Used for TLS-encrypted secure communication between SharePlex source and target.
Provides additional AES-encrypted tunneling between Export and Import processes. Refer to <code>SP_XPT_ENABLE_AES</code> and <code>SP_IMP_ENABLE_AES</code> for configuration details.	AES	FIPS	128/192/256	Yes	Users can configure a key of the desired length to encrypt data.
Store sensitive information	AES	FIPS	256	Yes	

Data Encryption for Import-Export

When data encryption is enabled for Import-Export by setting `SP_XPT_ENABLE_AES` and `SP_IMP_ENABLE_AES` to 1, SharePlex uses the AES-256-GCM encryption algorithm. The AES-256-GCM cipher suite is used by default.

Backward Compatibility

To ensure backward compatibility in version 12.3, the `SP_SYS_TARGET_COMPATIBILITY` parameter at the source must be set to the lowest version among the target systems.

If SharePlex 12.3 or later version is configured as the target and the source is running an earlier version, SharePlex uses the AES-256-CBC encryption algorithm. In this case, the algorithm selection is determined by the `SP_XPT_AES_KEY_LENGTH` parameter set at the source, consistent with behavior in earlier versions.

sp_security Configuration

When TLS 1.3 and TLS 1.2 are enabled for `sp_security`, FIPS-compliant algorithms are used by default.

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SharePlex Release Notes

Updated - 5/18/2026

Version - 12.3