



Informatica®
PowerExchange®
10.5.3
Release Notes
November 2022

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Read the *Informatica® PowerExchange® Release Notes* to get important information about enhancements, fixed issues, and known issues in PowerExchange 10.5.3. The release notes also include upgrade considerations, if applicable.

To access the PowerExchange 10.5.3 documentation set, browse the Informatica Documentation Portal at <https://docs.informatica.com>.

Enhancements

The following table describes closed enhancement requests:

Enhancement	Description
PWX-10453	The DTLINFO utility was enhanced to report the version, release, and release level for each PowerExchange program in a PowerExchange library or directory. Also, it can report on PowerExchange program files on one or more remote machines if a PowerExchange Listener runs on those machines.
PWX-10398	PowerExchange provides improved directional processing of Arabic text.
PWX-10393	PowerExchange CDC for Db2 for i now provides overrides for re-processing restored journal receivers.
PWX-10313	The DTLUCBRG utility now provides the DDLFILE subparameter in the HANOPTS parameter to generate a file that contains DDL statements for creating SAP HANA triggers and a shadow _CDC table for each registered SAP HANA source table.
PWX-10292	The PowerExchange IBM i installer now reports messages that provide more information about the cause of a runtime failure.

Enhancement	Description
PWX-10270	The PowerExchange nonrelational optimized read process now supports negative numbers in primary key fields in WHERE clauses that use the equals (=) condition. This enhancement also includes new messages that report unsupported WHERE clauses that are discarded from optimization and the reason that the clauses are discarded.
PWX-10269	The PowerExchange Navigator includes new functions for expressions in user-defined fields in support of the non-relational optimized read process. The GetOptimizationReadCount(), GetOptimizationPositionCount(), and GetUnoptimizedReadCount() functions provide access to statistics generated by the optimized read process.
PWX-9223	PowerExchange now supports CICS Transaction Server (CICS TS) version 6.1 as a CDC data source. PowerExchange can capture changes that CICS TS 6.1 transactions make to VSAM data sets.

Fixed issues

The following table describes fixed issues:

Bug	Description
PWX-10566	During PowerExchange Express CDC for Oracle processing of changes from an Amazon RDS read replica, the PowerExchange Logger fails because the read replica uses archive log and online log directory names that are different from the ARCHIVELOG_DIR and ONLINELOG_DIR directory names that you configured for the RDS Oracle source database. A means of overriding the directory names is needed.
PWX-10553	If a Db2 for z/OS source uses compression, the ECCR might abend without decompressing the row.
PWX-10552	After the PowerExchange Express CDC for Oracle log reader detected an out-of-date read operation and requested an alternate log to process, it failed to reposition to the last block processed.
PWX-10548	The Db2 for z/OS ECCR fails when processing a SYSCOPY insert that indicates a QUIESCE if the only registered table in the table space has a name that is longer than 18 characters.
PWX-10539	On z/OS, when PowerExchange reads IMS unload files created by BMC utilities, the read process cannot load the DBD.
PWX-10536	PowerExchange Express CDC for Oracle capture processing failed with the following error when it encountered quick multi-insert (QMI) UNDO operation with no corresponding QMI REDO operation: PWX-36000 ORAD Mbr 1: Internal error Expected DML operation, found non-DML. pCVRedo is NULL, pCVUndo opcode=11.12 , obj#=90163 in module PwxOrlRrpRedoEntryRecord:1283
PWX-10508	PowerExchange CDC processing of a PostgreSQL source fails with the following error: PWX-15790 ODBC driver error [HY000] [Informatica][ODBC PostgreSQL Wire Protocol driver][PostgreSQL]ERROR: VERROR; option "include-oids" = "16430" is unknown(Where slot "pwx_repl", output plugin" pwx_decode", processing startup callback; File pwx_decode.c; Line 257; Routine pg_decode_startup;) returned (56966976).

Bug	Description
PWX-10504	During a catalog lookup for the materialized query table, a failure occurs when DROP or ALTER DDL log records are processed. If the materialized query table exists before the catalog snapshot occurs, the lookup fails because materialized views are not included in the catalog.
PWX-10480	PowerExchange non-relational record ID processing no longer works.
PWX-10475	On Linux, after an Oracle patch that affects the SYS.TAB\$ table was applied, the PowerExchange Logger failed during PowerExchange Express CDC for Oracle processing with the following error: PWX-36381 ORAD: DDL processing error for table SYS.TAB\$,column INTCOLS: Column is defined as not nullable but contains null value.
PWX-10467	On AIX, an attempt to run the DTLUCUDB utility with a Db2 for Linux, UNIX, and Windows 11.5 source fails with an error that reports an unsupported database release level.
PWX-10458	Db2 for z/OS ECCR verification of the source schema fails when the schema includes a LONG column that was created in Db2 version 7 or earlier. If the ECCR is verifying the schema for change data processing, the ECCR abends.
PWX-10451	During PowerExchange Express CDC for Oracle, Oracle performed an online partition move. As a result, the PowerExchange Logger for LUW failed with the following error message: PWX-36324 ORAD: DDL for table creator.table_name added partition partition_table, partition_object but the partition already exists in the PowerExchange dictionary.
PWX-10430	After you upgrade PowerExchange, the View File option for a data map in the PowerExchange Navigator does not work.
PWX-10425	If you use remote logging of Db2 for i data to the PowerExchange Logger for LUW and if you specify a IBMJRNLOVRD parameter value in the PowerExchange Logger configuration file that has a length less than the length of the JOURNAL value in the AS4J CAPI_CONNECTION statement, the PowerExchange Listener on IBM i cannot find the correct journal.
PWX-10421	If a PowerCenter mapping uses PWX NRDB Batch connections to a sequential file source and to a flat file source and includes a Joiner transformation, a Preview Data operation on the source definition fails. Also, when you run the session, it fails at the Joiner transformation.
PWX-10417	When you use PowerExchange with a sequential file source, you cannot allocate a target data set with LRECL=2.
PWX-10372	PowerExchange Express CDC for Oracle advanced exception handling messages are not displayed correctly.
PWX-10356	If CDC sessions with Db2 for IBM i or Db2 for z/OS sources fail, the data captured from the database is not rolled back.
PWX-10353	On z/OS, an IMS update fails with the following message when the ROOT segment is not found: PWX-02030 SQL update failure. SQLCODE = 256
PWX-10340	CDC sessions that have Db2 for i source tables with names longer than 30 characters and including spaces fail with the following error: PWX-00963 Invalid value specified for parameter "9 'Metadata comments'". Position 49. Value "~".

Bug	Description
PWX-10311	The PowerExchange installer on IBM i needs an option for specifying the required FILEMAPPED_MEMORY_DIR value, which is the directory that stores temporary file-mapped memory files for PowerExchange Listener statistics.
PWX-10296	When the PowerExchange Listener runs, memory errors associated with Adabas and the DTLSTPW program might occur.
PWX-10294	The PWXUCREG utility fails to run on Windows because its pwxucreg.exe file is missing from the PowerExchange package for Windows.
PWX-10276	The DTLUCBRG utility updates the wrong output messages.
PWX-10206	If you select the Light Install option when installing a subset of the PowerExchange libraries on z/OS, the installation fails.
PWX-10205	When you create a capture registration for a Db2 for i table that has been renamed, the PowerExchange Navigator might not list the table for selection. This problem occurs if the SYSTEM_TABLE_NAME and TABLE_NAME values for the renamed table in the SYSTABLES view are different.
PWX-9907	For SAP HANA CDC sources, if the more than one registered table has the same name in different schemas, PowerExchange capture processing fails with error message PWX-09964. The error can occur for tables that have the status of Active or History.
PWX-9473	When you run the DTLUCBRG utility to create an IDMS capture registration, DTLUCBRG does not create a correct capture registration even though the job ends with RC=00.
PWX-8464	For Db2 for i CDC sources, capture registrations with hidden fields in key columns do not display the hidden fields. This fix does not affect hidden fields that are not in key columns.

Known issues

The following table describes known issues:

Bug	Description
PWX-10034	If you selected the Full Audit option in a capture registration for a SAP HANA CDC source, the shadow _CDC table and SAP HANA triggers are generated when the PowerExchange Logger for LUW starts. However, if a shadow_CDC table was dropped and one or more of the corresponding triggers still exist, the table is not created. If the PowerExchange Logger then tries to restart from an earlier restart point without a shadow _CDC table, it ends abnormally. Workaround: Before starting the PowerExchange Logger, either manually re-create the shadow _CDC table or drop the triggers.
PWX-9939	If you enter a passphrase that includes an apostrophe in the Password field in a PWX application connection in PowerCenter, the session fails. Workaround: Do not specify a passphrase that includes an apostrophe.
PWX-9859	If your PostgreSQL installation is configured to use the scram-sha-256 password encryption method, PowerExchange database connections will fail. Workaround: Disable scram-sha-256 encryption by setting password_encryption=md5 in the postgresql.conf configuration.

Bug	Description
PWX-9647	<p>During PowerExchange CDC for Db2 for i processing, the PowerExchange Listener on IBM i intermittently hangs if alternate logging is enabled. A connection error is issued.</p> <p>Workaround: Disable alternate logging and try running the job again</p>
PWX-9014	<p>If you select View Paths for an IDMS capture registration in the PowerExchange Navigator, the parent hierarchy for the IDMS base record is not displayed.</p>
PWX-8930	<p>The IMS log-based ECCR REFRESH command causes the ECCR to end abnormally.</p>
PWX-8563	<p>In the PowerExchange Navigator, if you open a Microsoft SQL Server capture registration and click Save, the PowerExchange Navigator creates a new SQL Server article and deletes the previous one even if no changes were made to the registration. The data associated with the previous SQL Server article is deleted.</p> <p>Workaround: Do not click Save unless you are making changes to the capture registration.</p>
PWX-8527	<p>After a PowerExchange IMS ECCR REFRESH operation, CDC processing might fail with an SVC99 error because of an IMS log deletion.</p> <p>Workaround: Stop and restart the IMS ECCR and the PowerExchange Listener on the system where change capture occurs.</p>
PWX-8333	<p>During PowerExchange Express CDC for Oracle, a transaction assembler error might occur for indexed-organized tables (IOTs) that contain OVERFLOW tables with chained rows. The following error message is issued:</p> <pre>PWX-36465 ORAD Info: DML sequence error: Subordinate DML sequence and active DML sequence is not only kdolkr/kdolmn/kdol1b.</pre>
PWX-8097	<p>The PWXUCDCT utility fails with a segmentation fault when running a derive_cdct_backup command and trying to process corrupted PowerExchange Logger log records. The messages that the utility issues do not contain useful diagnostic information.</p> <p>Workaround: Ensure that the EXT_CAPT_MASK parameter value in the PowerExchange Logger configuration file is correct and that the Logger log files exist.</p>
PWX-7917	<p>If you select the Pre SQL run once per Connection check box in a PWXPC connection definition for a nonrelational target, any SQL statements that you specify in the Pre SQL connection attribute will not be executed.</p> <p>Workaround: Clear the Pre SQL run once per Connection check box to allow the SQL to run one or more times for the connection.</p>
PWX-7202	<p>If you define a PowerCenter session that uses a PWX NRDB Lookup relational connection and set the TCPIP_OP_TIMEOUT and TCPIP_CON_TIMEOUT overrides in the PWX Override connection attribute, the session fails.</p> <p>Workaround: Use the connection string to specify the overrides.</p>
PWX-7104	<p>If you issue a pwxcmd command such as displaystats to an ECCR on a z/OS system, the pwxcmd command handler might hang. This problem occurs when the amount of command output is greater than 4 KB.</p>
PWX-7033	<p>If the PowerExchange Agent encounters an error in the DBMOVER configuration file, it does not end processing as expected. As a result, the Agent cannot successfully connect to the PowerExchange Listener for change data capture.</p> <p>Workaround: Shut down the PowerExchange Agent by using the SHUTDOWN COMPLETELY command. Edit the DBMOVER configuration file to correct the error and then restart the PowerExchange Agent.</p>

Bug	Description
PWX-6917	For PowerExchange on z/OS, if you use the IPV6 protocol for a TCP/IP connection, the IP address is truncated in SMF reports. The connection is not affected, but the IP address is not complete in SMF.
PWX-1971	If the file permissions on the directory path that is defined in the LOGPATH statement in the DBMOVER configuration file on the Linux Data Integration Service machine are not set correctly, a core dump occurs and a Java Runtime Environment fatal error is reported. Workaround: Ensure that the file permissions are not too restrictive. Permissions of 755 are sufficient. (459102)
PWX-1672	A CAPXRT database row test in the PowerExchange Navigator for an IMS complex table source returns no changes even though the PowerExchange Logger for z/OS contains data for the source. This problem occurs when a capture registration is re-created for the source with the same tag name as the previous registration and the new registration includes an additional IMS segment. As a result, PowerExchange cannot map the new registration to the data in the PowerExchange Logger log files. Workaround: None available. Contact Informatica Global Customer Support. (409991)
PWX-1521	If you capture change data from a Db2 for Linux, UNIX, and Windows source table that uses range partitioning and a DDL operation that adds, attaches, or detaches a partition is performed on the table, data loss might occur and cause data corruption on the target. Workaround: Do not issue DDL statements that add, attach, or detach a partition for a source table. Alternatively, if you must perform these DDL operations on a source, before you start CDC processing, synchronize the source and target tables by using PowerExchange bulk data movement or another tool. (395055)
PWX-1387	If you use PowerCenter to write Updates to a PowerExchange target and an Update fails, the PowerCenter session log displays an incorrect counts of Update rows in the Load Summary. An Update might fail, for example, because the target record does not exist. (375568)
PWX-1271	When you import a copybook that contains certain German-language characters, such as 'ß' or vowels with umlauts, into a PowerExchange data map, the lines that contain these characters are not imported. Workaround: If these German-language characters appear within comments, edit the comments to remove or replace the characters. (350646)
PWX-1184	When you create a data map in the PowerExchange Navigator, if you import a PL/I copybook and enter Start and End values that define a column range that includes line sequence numbers, the PowerExchange Navigator might add an extraneous "NEW_RECORD__" record and then either fail or produce unpredictable results. Workaround: When importing a PL/I copybook, do not define a column range or accept a default column range that includes line sequence numbers. (331003)
PWX-1143	When you import a PL/1 copybook for a z/OS source into a data map from the PowerExchange Navigator, the import succeeds, but the import record is not created.
PWX-825	When you run a CDC session that includes a password-protected Adabas data source and uses the CAPXRT access method and offload processing, the session fails. (257540)

Note: The current bug tracking system uses bug IDs that begin with the "PWX-" prefix. The previous tracking system used bug IDs that consist of six numbers. For known limitations that carried over from an earlier release and now have a PWX-*nnnn* bug ID, you can find the previous bug ID at the end of the description in parentheses.

PowerExchange 10.5.3 Installation and Upgrades

Follow the procedures in the *PowerExchange 10.5.3 Installation and Upgrade Guide* for a full or upgrade installation.

Upgrade Considerations

New SAMPLIB Member for CICS/VSAM ECCR Programs That Support CICS TS 6.1

PowerExchange 10.5.3 adds the #CICSV74 member in the SAMPLIB library for defining the CICS/VSAM ECCR programs and transaction for the newly supported CICS Transaction Server (TS) version 6.1.

Because the definition of the CICS/VSAM ECCR programs and transaction changed, you must restart the CICS region after upgrading to PowerExchange 10.5.3.

Informatica Global Customer Support

You can contact a Global Support Center by telephone or through the Informatica Network.

To find your local Informatica Global Customer Support telephone number, visit the Informatica website at the following link:

<https://www.informatica.com/services-and-training/customer-success-services/contact-us.html>.

To find online support resources on the Informatica Network, visit <https://network.informatica.com> and select the eSupport option.