UniData

Release Notes

Version 8.3.1

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Notices

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Contents

Chapter 1: What's New?

This guide summarizes the significant changes and updates for Rocket UniData 8.3.1.

Replication Enhancements

Subscriber Log Skip

A skip option has been added to the `ud_repadmin` command to instruct the subscriber to skip a problematic or stuck replication log. Previously, the only resolution for this behavior was to reset the group and refresh the subscriber files from the publisher. This new option provides the administrator the option to continue Replication processing and avoids log build-up and the eventual reset and refresh due to the stalled group.

Publisher Log Skip

A new option has been added to the `reptool` command to skip a stuck replication log on the publisher. Previously, the only resolution for this behavior was to reset the group and refresh the subscriber files from the publisher.

The new option allows the current value of the flags word for a replication LSN. When Replication has stopped processing due to the current flags word value, this new option can be used to attempt to resume processing for that group.

Note: This option is primarily intended for use by Rocket Support when working with a customer who has reported that Replication has stopped processing.

Restarting repmanager

Previously, when receiving a `repmanager does not answer` response, the only resolution was to restart UniData.

A script called `restart_replication.sh` on UNIX and an executable called `restart_replication.exe` on Windows is now included with UniData. This script/executable stops and restarts the repmanager process, eliminating the requirement to restart UniData.

OpenSSL 3.0

The version of OpenSSL shipped with UniData 8.3.1 is 3.0. OpenSSL 3.0 is major architectural change to OpenSSL 1.1 and brings with it enhanced security features. UniData has been updated to reflect and take advantage of those features.

Important: Rocket strongly recommends that customers make themselves aware of these changes and any changes they may need to their application or environment to support OpenSSL 3.0. There will be 8.3.1 presentations available on our website covering OpenSSL 3.0 in more detail.

Some algorithms previously supported in OpenSSL 1.1 are no longer supported by default in OpenSSL 3.0. New ECL commands have been added to allow the use of these legacy algorithms, along with changes and additions to the udtconfig parameters.

Note: FIPS_MODE is disabled in OpenSSL 3.0.

A new udtconfig parameter has been added to control the security level enforcement in line with the OpenSSL 3.0 security levels.

The security strength of certain certificates such as SHA1 and MD5 have been reclassified in OpenSSL 3.0 and this has also resulted in TLSv1 and TLSv1.1 levels being reclassified. If you wish to use these then you will need to change the default settings of the new security parameters in UniData.

The `createCertificate` function in UniBasic will now sign a certificate as SHA256 instead of the previous SHA1 if no signature is specified.

The `U2SelfCert.scr` has been updated to a minimum setting of TLSv1.2.

The previous library names of libcrypto and libssl have now been renamed libcryptoU2 and libsslU2 To resolve the conflicts caused by different OpenSSL library versions on a machine.

More information is available in the *UniData Security Features* guide and the *UniBasic Commands Reference*.

System Builder Extensible Architecture

System Builder uses a DES algorithm to encode internal passwords. DES is now considered a legacy algorithm in OpenSSL 3.0 and is not supported by default.

There is a hotfix scheduled for SB/XA 6.5.7HF13 referenced internally under SBXA-20826. The changes scheduled in this hotfix will resolve this issue without requiring the customer to make any changes.

If a customer does not have the required SB/XA release, modifying the LOGIN paragraph to enable legacy algorithms will also resolve the issue.

Python 3.11

The version of python shipped with UniData 8.3.1 is Python 3.11.

The Python OpenSSL extension has been updated to no longer depend on Unidata's built-in OpenSSL version. Like other third-party libraries, the Python OpenSSL extension now relies on the OpenSSL version provided by the operating system.

New or changed udtconfig parameters

Parameter	Description
USE_LEGACY_OPENSSL_ALGORITHM	0 will not load the Legacy Provider (default). 1 will load the Legacy Provider.
FIPS_MODE	This has been disabled. It will always be treated as 0 (FIPS mode is off).

Parameter	Description
SSL_SECURITY_LEVEL	This parameter is used to specify the security level of OpenSSL for UniData. Starting with OpenSSL 3.0, the security strength of SHA1 and MD5 based signatures in TLS have been reduced, which results in TLSv1 and TLSv1.1 no longer working at security level 1 (instead requiring security level 0). In addition, X509 certificates signed using SHA1 or MD5 are no longer allowed at security level 1 and instead require security level 0. 0 - Everything is permitted. This retains compatibility with previous versions of OpenSSL. 1 - Same as the default security level of OpenSSL (default).
SSL_OPTIONS	NO_LEGACY_SERVER_CONNECTION - No support for connecting a legacy server (default). LEGACY_SERVER_CONNECTION - Support for connecting to a legacy server.
SKIP_CLEANUP_SAVEDLISTS	Controls whether the cleaning of the SAVEDLISTS or the savedlists folder is performed during the logout phase of a UniData session.

New UDT.OPTIONS

Option	Description
UDT.OPTIONS 130 U_PHANTOM_NOFILE	Controls the ability to stop a phantom command from generating a PH record.
UDT.OPTIONS 131 _ESCAPE_QUOTES_IN_QUERY	Controls the ability to allow quotes to be escaped in a query constant.

UniQuery Enhancements

The COUNT, LIST, SELECT, SORT and SSELECT commands have been enhanced to support a FROM listnumber clause to use lists other than the default list number of zero.

UniBasic Enhancements

The RETURN command now allows for a file variable to be returned.

Chapter 2: Enhancements and fixes

The following enhancements were added and issues were addressed in UniData 8.3.1:

Note: UniData 8.3.1 includes fixes for all issues addressed up to UniData 8.2.4.3008 (released on 2/26/2004). To review those issues, go to https://rbc.rocketsoftware.com/downloads/readme/UDT-8.2.4.3008.pdf.

Key	Release Notes	Component
UDT-2292	Prior to this release, if UniData failed to start and detected a problem with one or more parameters in the udtconfig file, the message "udtconfig parameter(s) holds invalid value(s). Please use 'udtconf' to check it. " would be recorded in the udt.errlog. Starting in this release, the incorrect parameter(s) are now reported along with the message.	Error Reporting
UDT-8983	UniBasic. Prior to this release, when opening a file with the OPENSEQ statement, it did not trap and report an Operating System permission problem and continued as if successful. An actual failure only occurs on the first READSEQ or WRITESEQ operation. This issue has been resolved.	U2 Basic
UDT-12978	Prior to this release, the COMPILE.DICT or CD command would fail if the dictionary being compiled contained too many records. Starting in this release, if the dictionary contains more than 100,000 items, then an error message similar to "The dictionary of the file XXXXXXXXX contains too many items to process" is displayed.	Query
UDT-13150	Prior to this release, a problem could be encountered with U2 Replication where transactions were committed to the replication logs but did not contain the required Transaction End marker, causing replication to halt on the subscriber. The only way to recover from this situation was with a full manual refresh of the subscriber. Beginning in this release steps have been taken to ensure the Transaction End marker is added as expected to the transaction and to allow UniData to auto recover and report if further errors are found in this area.	Replication
UDT-13720	Prior to this release, if an error was encountered opening a dynamic part file by the functions u_open_large_file_error() or u_insert_part_file(), no further explanation of the reason for the error was given in the related error message. Starting in this release, the failure will be further explained with one of eight reasons.	Error Reporting
UDT-15141	Starting in this release, UDT.OPTIONS 130 U_PHANTOM_NOFILE has been added. This option controls the ability to have a phantom command generate a PH record. ON suppresses the production of the PH record. OFF maintains the pre-8.3.1 behavior and produces a PH file record.	Other

Key	Release Notes	Component
UDT-15516	Replication. Prior to this release, certain failures to update records on the subscriber were not reported in the udrw.errlog. This issue has been resolved.	Error Reporting
UDT-15799	Starting with UniData 8.1.0, UniBasic variable allocation was moved from shared memory to heaped memory and, as such, the amount of heaped memory a process could use was limited by the operating system itself. Prior to this release, if UniData breached this limit on UNIX, it could result in the session terminating without explanation and leaving the UNIX session in a hung or unresponsive state. This issue has been resolved.	Error Reporting
UDT-16223	Prior to this release, if options including '-t' were supplied to the udtmon command, the process would abort. Starting with this release, the command now returns an error of 'No options are allowed, program exit.'	Support Tools
UDT-16228	Replication. Starting in UniData 8.3.1, component based U2 logging has been added for the U2 Replication processes.	Error Reporting
UDT-16233	UniBasic. Starting in this release, the maximum length of a file name, including the full path allowed to be used via the XDOM functions, is now 4096. Prior to this release, if the lower limit was breached, the udt session would abort.	U2 Basic - XDOM API
UDT-16348	Replication. Prior to this release, a problem encountered while Replication was disabling could leave UniData I/O suspended. UniData I/O is suspended while Replication is being disabled and resumed when the process completes. If the disablement process failed for any reason, UniData I/O would remain suspended. Starting in this release, the repmanager process will ensure that I/O is resumed, even if a failure occurs during the disablement process. Additionally, logs in the LEF directories are copied to the LRF directories during the process. Previously, this could result in a disk full condition as the LEF logs were not removed until ALL logs had been copied to the LRF directories. Starting in this release, each LEF log is removed after it is copied to the LRF, eliminating the duplication of a large number and the possibility of a disk full condition during the process.	Replication

Key	Release Notes	Component
UDT-16364	Install. Starting in this release, users are given the option to specify how minidump files, used for troubleshooting purposes, are handled during the initial installation. A UniData minidump window displays in the installation wizard and allows users to specify the maximum number of minidump files the system can create and the minidump directory in which minidump files will be stored. Minidump files are created by default unless the Disable automatic minidump creation option is selected on this window.	Error Reporting - Crash
UDT-16428	Replication. Prior to this release, a deadly embrace may have occurred when using Cross Group Transactions (CGT) with U2 Replication. If the Transaction Control Area (TCA) overflowed, replication may have missed that transaction in another group that had already been processed. The group waiting for that update would stop processing. This, in turn, could cause other groups waiting on a transaction in the stopped group to also stop processing. The occurred when sync was issued after the subscriber had been suspended for some period of time and a large volume of updates had to be processed. This issue has been fixed.	Replication
UDT-16601	Prior to this release, if the permissions on the serverdebug logging directory did not allow access by the user ID being impersonated, then an incorrect error of 80011 "Invalid user ID / password" would be returned to a UniObjects Client. This issue has been resolved.	UNIRPCD
UDT-16660	UniBasic. Starting with version 8.2, if a program was compiled with the -D option and had an INCLUDE reference to a hashed file, after the process exited, a '_BS<pid>' file in UDT Temp would remain. The '_BS<pid>' file is not created during the compile stage, only after the program is executed. This issue has been resolved.	Debug Tools
UDT-16807	Windows. Starting in this release, the maximum number of minidump files that can created when exception errors occur can be controlled by the registry key: HKEY_LOCAL_MACHINE\Software\Rocket Software \UniData\CurrentVersion MaxMiniDumpFile REG_DWORD 0x0000000a (10) The default value for the registry key is 10 and it is configurable during the installation of UniData. If the limit is reached and a minidump file cannot be created, the exception text file reports that the Maximum number of allowable dump files has been exceeded.	Error Reporting - Crash
UDT-16839	Prior to this release, the privileged_user_audit setting in U2 Audit Logging did not turn on tracking for 'root' and 'Administrator' (Windows), regardless of what other policies were configured. This issue has been resolved.	Audit Logging

Key	Release Notes	Component
UDT-16976	Prior to this release, if an error was encountered when opening a dynamic part file by the functions u_open_large_file_error() or u_insert_part_file(), no further explanation of the reason for the error was given in the related error message. Starting with this release, the failure will be further explained with one of eight reasons.	Error Reporting
UDT-17035	Prior to this release, any use of the guide_ndx command that would cause the usage message to display, would render the tty settings unusable. This issue has been resolved.	Debug Tools
UDT-17037	Recoverable File System. Starting in 8.1.0, the 'guide' command when used with the -ns' option could abort if the RFS was enabled and certain conditions were met in the file being checked. This issue been resolved.	Files - Corruption
UDT-17053	UniBasic. Prior to this release, if the EXECUTESQL command encountered a permissions problem with a file, the name of the file was not reported with the error. This issue has been resolved.	U2 Basic
UDT-17057	Windows. Starting at 8.3.1, the trunclog command to control the size of the current error log sets is now supported on the Windows implementation of UniData. See the UniData Commands Reference for more detail.	Replication
UDT-17071	Prior to this release, if local subroutines or functions were used in your programs, convcode would fail to convert the object code from UNIX (excluding Linux) to Windows or Linux. The conversion would work if only one local function was defined but failed if either one local subroutine or at least two local functions were defined. This issue has been resolved.	Files - Conversion
UDT-17103	UniBasic. Prior to this release, at runtime the DNS info was cached, and depending on the platform, may not have been automatically refreshed if the network configuration changed. This could resulting in socket failures in functions such as CallHttp() as it would still be using the old cache. This issue has been resolved.	U2 Basic
UDT-17664	Windows. Prior to this release, running the LIST.READU command from the cmd prompt would truncate the output to two pages. This issue has been resolved.	ECL Tools
UDT-17691	UniBasic. Prior to this release, the UniBasic SORT() function was not consistent in performing it's documented left-justifed sort. This issue has been resolved.	U2 Basic

Key	Release Notes	Component
UDT-18080	Starting in 8.3.1, the CALL.STACK of both processes involved are reproted to the udt.errlog when a deadly embrace (deadlock) is detected.	Error Reporting
UDT-18275	When resizing a VOC file, the UDT Temp path is always used. Prior to this release, it was misreported as using the system Temp path. This issue has been resolved.	Files - Resizing
UDT-18426	Prior to this release, guide_ndx would report the following errors if there was no space left in the UDT Temp space: Index: write intermediate file error(28) Index: open intermediate file error(28) Starting in this release, the messages have been changed to indicate the phase at which the command failed along with a notification of 'No space left on device'	Indexes
UDT-18532	Starting in UniData 8.3.1, the new -w option has been added to the guide command to allow guide to identify keys that contain one of more control characters.	Files - Corruption
UDT-18640	Replication / Windows. Prior to this release, a condition could be met where if the ud_repadmin failover / failback command was used several times, it could hang on the failover or failback command on Windows. This issue has been resolved.	Replication
UDT-18716	Starting with UniData 8.3.1, the COUNT, LIST, SELECT, SORT and SSELECT commands have been enhanced to support a 'FROM list#' clause to use lists other than the default list number of zero.	Query
UDT-18721	Prior to this release, udtconf would make recommendations for EXP-BLKSIZE that did not match the documentation. This issue has been resolved.	Installation
UDT-18726	Prior to this release if UniData failed to start because N_BIG was incorrectly set, a generic message of 'udtconfig parameter(s) holds invalid value(s). Please use 'udtconf' to check it.' would be recorded in the smm.errlog file. Starting with this release, the message has been changed to correctly explain the incorrect setting on N_BIG.	Recoverable File System
UDT-18906	Replication. Prior to this release, adding Keywords such as SUB_WRITEABLE to the FILE phrase in repconfig could result in inconsistencies between the controlling group on the publisher and subscriber. This issue has been resolved.	Replication
UDT-18923	Prior to this release, if an attempt was made to add more indexes to a file, then the file would become damaged. Starting in 8.3.1 a warning message will be displayed if such an attempt is made.	Indexes
UDT-18943	Prior to this release, the first time you executed ENCRYPT.FILE against a file using a key that did not have a password, it would incorrectly be marked as having a password. This issue has been resolved.	Automatic Data Encryption

Key	Release Notes	Component
UDT-18944	Starting in UniData 8.3.1, the version of OpenSSL that is shipped with UniData has been upgraded to OpenSSL 3.0.	Security
UDT-18991	RFS. Prior to this release, If archiving was enabled and the archive logs become full and were not being offloaded properly, then the 'dbpause -c' command would continuously run or hang. This issue has been resolved.	Recoverable File System
UDT-19031	UniBasic. Prior to this release, option 11 of the FILEINFO function (the current file load) could report incorrect U_pread and U_blkread if certain conditions about the file were met. This issue has been resolved.	Files - Dynamic
UDT-19032	Replication. Prior to this release, if the repmanager became unresponsive and the ud_repadmin commands responded with "Repmanager does not answer", stopping and restarting UniData was the only way to resolve the behavior. Starting in 8.3.1, a script has been included with UniData that will stop and restart the repmanager process, eliminating the requirement to stop and restart UniData to resolve the issue. See the UniData Replication User Guide for more information.	Replication
UDT-19045	UniBasic. Prior to this release, if the length of the command being used in an EXECUTE statement broke the limitation of U_SENTLEN while in ECLTYPE P, the correct error message was not displayed. This issue has been resolved.	Query
UDT-19058	Prior to this release, the udtconf command could produce a warning relating to msgmni settings and referencing the RFS parameters, even when the RFS was not turned on. This issue has been resolved.	Shared Memory
UDT-19061	Starting in 8.3.1, if the 'No More LCTs' message is encountered, it will be recorded in the smm.log and smm.errlog files.	Error Reporting
UDT-19071	UniBasic. Prior to this release, if an UPDATE trigger wanted to update a STATIC file and the process opened too many files in the trigger program, the update would fail and report U_pread errors. Starting in 8.3.1, the correct error message of 'too many open files' is now reported.	Triggers
UDT-19113	Starting in 8.3.1, UDT.OPTIONS 131 U_ESCAPE_QUOTES_IN_QUERY has been added. This option controls the ability to allow quotes to be escaped in a query constant.	Query
UDT-19159	Audit. Starting in 8.2.3, an error would occur if an attempt to write to audited file and the audit log file type was hash. The message that would be displayed is 'WRITE attempt on audit log file is not allowed". This issue has been resolved.	Audit Logging

Key	Release Notes	Component
UDT-19204	UniBasic. Prior to this release, if the securitycontextrecord was null when used in the submitRequest function, the process would abort. This issue has been resolved.	U2 Basic - CallHTTP
UDT-19212	Install. Starting with this release, the -sfc option has been added to udt-setup in order to allow the skipping of the file usage check.	Installation
UDT-19237	Prior to this release, if a hashed file had an encrypted index where the algorithm used to encrypt the index did not match that of the associated data field - and the file was resized, the index file after the resize could incorrectly be marked as using the same algorithm used to encrypt the data field. For this to happen, the resize would also have to be converting from a static to dynamic file or vice versa and or converting a static file between 32BIT and 64BIT or vice versa.	Automatic Data Encryption
UDT-19238	Prior to this release, when running guide with the -r option, it does not populate FILE_NAME in field one of the file created as detailed in dictionary D_UDT_GUIDE. This issue has been resolved.	Support Tools
UDT-19240	Python. Beginning with this release, the version of Python bundled with UniData has been updated to 3.11 and OpenSSL to 3.0.	Python
UDT-19242	Windows only. Prior to this release, the DB.TOXML command would terminate unexpectedly if the default encoding was modified via the XMLSETOPTIONS command. The BASIC XMAPCreate() function used by DB.TOXML was the specific command which failed. As such, the same issue could occur with a BASIC program using the XMAPCreate() function. This issue has been resolved.	U2 Basic
UDT-19268	AIX. Starting in UniData 8.2, using the udtconf command to check the configuration options would result in udtconf aborting. This issues has been resolved.	Shared Memory
UDT-19270	Prior to this release, if an encryption action was blocked on a replicated file, it would be silently blocked. Starting is this release, a message is displayed detailing why the action was blocked.	Automatic Data Encryption
UDT-19273	Replication. Starting at 8.3.1, the Replication message "Remote system not found" has been improved. The message will now indicate whether the issue is a SYSTEM mismatch or a GROUP mismatch. The message on the publisher will also include the SYSTEM name or GROUP name supplied by the subscriber that does not match the publisher. The improved message will help diagnosing issues in this area.	Replication

Key	Release Notes	Component
UDT-19274	Replication. Prior to this release, Replication may have generated an LEF access error when switching from one LEF file to the next sequential file causing Replication to disable. The issue was a timing issue related to checking the status of each log file. The error could occur when a large volume of data was quickly being written to the Replication LEF log files. Retry logic has been implemented if the condition occurs to ensure the failure will not occur due to a timing issue.	Replication
UDT-19275	Replication. Starting in UniData 8.3.1, the "invalid log sequence" message now includes the actual and expected LSN number.	Replication
UDT-19276	Beginning with this release, a new option has been added to the Replication Support tool reptool. When choosing Replication Groups from the main menu, option 10 is now available when choosing a replication group. The option provides the ability to change the current value of the flags word for a replication LSN. When Replication has stopped processing due to the current flags word value, this new option can be used to attempt to resume processing for that group. With existing releases, this situation typically results in the requirement for a Replication reset and a refresh of the subscriber. This new option is primarily intended for use by Rocket Support when working with a customer who has reported that Replication has stopped processing.	Replication
UDT-19278	Replication. When Replication encounters an incomplete transactional update on the subscriber, replication will stop processing that group. An incomplete transaction can include a mismatch between the number of logs expected and the actual number of logs. A missing end transaction log is also considered an incomplete transaction. Previously, the only resolution for this behavior was to reset the group and refresh the subscriber files from the publisher. In the current release, a uv_repadmin option has been added to allow for skipping the incomplete transaction that has caused replication to stop processing. This provides the administrator the option to keep Replication processing and avoids log build-up and the eventual reset and refresh due to the stalled group. The syntax is: ud_repadmin skip \{-verbose} GROUP <group_name>	Replication
UDT-19284	Basic Call Interface / Redhat. Prior to this release, due to naming conflicts introduced by RedHat 8.4, BCI would not work. This issue has been resolved.	SSL
UDT-19285	Starting in 8.2.4, if the file hash type was not specified during a resize command, the setting of DEFAULT_HASH_TYPE would be used (not the original hash type of the file). This issue has been resolved.	Files - Resizing

Key	Release Notes	Component
UDT-19296	Starting in UniData 8.2.2, the CLEARSQL command failed to remove files that were created with a SQL SELECT command using the TOXML or TOJSON options. This issue has been resolved.	SQL
UDT-19310	Starting in UniData 8.2.0, if one of the sub-component commands in stopud failed, the failure code was not checked properly. This issue is now fixed.	Server Processes
UDT-19311	Prior to this release, the guide_ndx command would incorrectly run the LOGOUT paragraph in an account if present after it completes. This issue has been resolved.	Indexes
UDT-19312	Prior to this release, if the udtsetup script was run with a parameter file twice (while inside $UDTBIN) , the process would abort with an error code 13 (licence agreement not accepted). This issue has been resolved.	Installation
UDT-19332	Starting in this release, a new udtconfig parameter called SKIP_CLEANUP_SAVEDLISTS has been added. It controls whether the cleaning of the SAVEDLISTS or the savedlists folder is performed during the logout phase of a UniData session.	Server Processes
UDT-19333	Prior to this release, the cleanupd process could abort due to a failed execv call. This issue has been resolved.	Error Reporting
UDT-19337	Starting in 8.3.1, the VCATALOG command has been expanded to report the reason why the check performed by VCATALOG failed.	ECL Tools
UDT-19340	Python. Between UniData 8.2.3 and 8.2.4 there was a change in the behaviour of the RENIT.PYTHON command. This issue has been resolved.	Python
UDT-19342	Starting in this release, the udtsetup installation script will test the /tmp directory for execute permissions. If a failure occurs, it will switch its' temp directory to the starting directory of script. Alternatively, you can set the UDTSETUP_TEMP environment variable to override the use of /tmp as the temp directory.	Installation
UDT-19345	Starting in 8.2.2, the rscman utility would fail to import a PKCS#12 certificate. This issue has been resolved.	Security
UDT-19349	UniBasic. Starting with this release, the 'RETURN var' command will now allow 'var' to be a file variable.	Python
UDT-19350	UniBasic. Prior to this release, If a directory file variable exceeded the maximum item id length + 1 (127 characters), and that file variable is used in any UniBasic operation that requires a lock check to be done, the file variable would become truncated and then could not be used a second time or may write to an incorrect location if the truncation still points to a valid location. This issue has been resolved.	Locking

Key	Release Notes	Component
UDT-19360	Install. Beginning with the 8.2.2 release, the UniData install script was modified to check for an OS level library required for Python to function correctly. If the library was not found, the install script would exit with a message indicating the library should be installed before restarting the installation. In the current release, if the library is missing, a warning message will be displayed but the install process will continue (thus resolving this issue).	Installation
UDT-19363	Network File Access. Prior to this release, an NFA pointer referencing a MULTIFILE or MULTIDIR file on the remote system would always resolve to the same level of the file. This issue has been resolved.	Network File Access
UDT-19364	Replication. Starting in UniData 8.2.2, Replication failed to replicate the DICT level of any MULTIFILE or MULTIDIR. This issue has been resolved.	Replication
UDT-19368	UniQuery and Indexes. Prior to this release, the limitations of UDT.OPTIONS 125 were not clearly documented and the importance of UDT.OPTIONS 22 was not made clear when creating an index. These issues have been resolved.	Indexes
UDT-19407	Starting with UniData 8.3.1, the embedded Redis version has been upgraded to 1.1.0.	External Database Access
UDT-19464	Windows / RFS. Prior to this release, if ENCRYPT.FILE was executed against a recoverable static file, it would fail with a message of €œis locked by another user". This issue has been resolved.	Automatic Data Encryption
UDT-19465	RFS. Starting with version 8.2.4, if a static file was resized to a dynamic file, an incorrect error message similar to 'Unable to obtain encryption info for X_rszorgtempannnnn' could occur if the RFS was active. This issue has been resolved.	Files - Resizing
UDT-19469	Beginning with this release, UniData is now certified on RHEL 9.	Installation
UDT-19483	RFS. Starting in 8.2.4.3002, under certain conditions, a 'U_Pspin : semaphore' lock error could occur. This issue has been resolved.	Recoverable File System
UDT-19515	A new service called 'uddap_server' has been added to the unirpcservices file to work with the debugging features in the Rocket MV Basic Extension for Visual Studio Code.	DAP_agent

Key	Release Notes	Component
UDT-19589	Prior to this release, if ODBC logging was disabled and the udserver process received various signals (4 - 7 for example), then an ODBC server log will would be created or appended to and would report a message reporting the signal being recieved 'Signal Recieved 5'. This issue has been resolved and the incorrect spelling of the message was also corrected.	U2 ODBC
UDT-19613	UniBasic. Starting with 8.2.1, if the TOXML/TOJSON clause was used with a SELECT command in EXECUTESQL, an error could occur. This issue has been resolved.	SQL
UDT-19695	Prior to this release, the use of the PYTHONPATH environment had restrictions on the path it would recognize. This issue has been resolved.	Python
UDT-19729	Prior to this release, the SQL Datatypes of SQL.WCHAR, SQL.WVARCHAR, SQL.WLONGVARCHAR and the Basic Type SQL.B.BINARY were not defined in ODBC.H include record. This issue has been resolved.	Basic Call Interface
UDT-19792	RFS and Audit. Starting in 8.2.4, attempting to write to a recoverable file that was also audited would crash UniData. This issue has been resolved.	Audit Logging