

OpenText Gupta SQLBase

Release Notes

12.3

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1 Introduction

These Release Notes provide an overview of Gupta SQLBase 12.3, including new features, delivery information, and supported platforms.

OpenText recommends that you read these Release Notes in conjunction with the documentation included with the software package. If any conflicts exist, the Release Notes supersede the other documentation.

We also recommend that you check OpenText My Support (<https://support.opentext.com>) for any patches or documentation updates that may have been posted after the initial release of this product.

1.1 Release Notes revision history

Revision date	Sections revised	Description of revisions
2021-06-24	First release.	All new content.

2 About Gupta SQLBase

This section provides an overview of Gupta SQLBase 12.3.

The latest release of Gupta SQLBase has many new benefits that allow to implement highly secure database access, comply with regulations like GDPR and many query enhancements that provide developers more power for data querying.

2.1 New features

Gupta SQLBase 12.3 includes the following new features.

2.1.1 Data protection audit

All DML data operations on a database (INSERT, UPDATE, DELETE, COMMIT, ROLLBACK) can be logged to a separate database. See the Data Protection Audit subsection in the Security and Authorization chapter of the Database Administrator's Guide for details on enabling and using the Data Protection Audit feature.

SQLBase allows logging all operations done on the tables in a database to a separate audit database. The following information can be logged:

All INSERT, UPDATE, DELETE, ROLLBACK and COMMIT operations done on the database, with the ROWID of the row involved (if applicable) as well as a timestamp and the user name that executed the operation.

- A list of all columns involved in INSERT, UPDATE and DELETE operations.
- The data modified by UPDATE operations (both before and after images).
- The data inserted by INSERT operations (after image).
- The data deleted by DELETE operations (before image).

The data for LONG fields (LONG, LONG RAW, CLOB, BLOB) and binary fields will not be logged in the audit database, although the fact that the column was modified will be if that option is selected.

2.1.2 Enhanced login security

Gupta SQLBase 12.3 allows setting password strength rules to ensure users can only create secure passwords. Admins can define the minimum password length, the minimum number of alpha characters, the minimum amount of number characters, and the minimum amount of special characters. See the new passwordstrength sql.ini keyword in the Database Administrator's Guide.

2.1.3 Enhanced update and SQL functions

2.1.3.1 *Enhanced update syntax to include calculations in a select statement for an update value*

Update set a.value = a.value + (select b.value from b where a.id = b.id)

2.1.3.2 *@ADDDAY, @ADDMONTH, @ADDYEAR functions to add days, months or years to a DATE or DATETIME value*

@ADDDAY, @ADDMONTH, @ADDYEAR

@ADDDAY(date, days)

@ADDMONTH(date, months)

@ADDYEAR(date, years)

The @ADDDAY, @ADDMONTH and @ADDYEAR functions add an integer number of days, months or years to a DATE or DATETIME value. If the passed-in number of days, months or years is not an integer, the fractional portion will be discarded to make the value an integer. If the passed-in number of days, months or years is negative then the value will be subtracted.

2.1.3.3 *New reverse scan functions for strings*

@REVFIND, @REVSCAN

@REVFIND(string1, string2, start position)

@REVSCAN(pattern, string)

The @REVFIND and @REVSCAN functions work similarly to @FIND and @SCAN except that they search in reverse – i.e. starting at the end of the string

2.1.4 New EDP deployment features

The file list for the creation of a custom installer is now editable and allows users to add any files they want to a custom SQLBase installer.

2.1.5 Extended limit on size of LONG values selected in stored procedures

SQLBase now allows specifying the maximum size of a LONG that can be selected in a stored procedure via the maxsplonglength configuration variable. The default is 64K which was the maximum allowed on earlier versions of SQLBase.

2.2 Discontinued and deprecated features

The following features have been discontinued in this release:

- Dropped support for RedHat Linux version 6. Red Hat has ended support for RHEL 6 in 2020. (SQLBase 12.2.2)

The following features have been deprecated in this release:

- No deprecated features in SQLBase 12.2.2.

3 Packaging and documentation

Downloads and documentation for Gupta SQLBase are available on OpenText My Support (<https://support.opentext.com>).



Note

Documentation that is installed with the product or packaged with the product download is current at the time of release. Documentation updates made after a release are available for download on OpenText My Support (<https://support.opentext.com>).

3.1 Packaging and delivery information

The software and documentation for Gupta SQLBase includes:

- Windows 32-bit Install
- Windows 64-bit Install
- Redhat Linux 7 64-bit Install
- Windows Embedded Deployment Pack
- Linux Embedded Deployment Pack

3.2 Related documentation

For additional information about Gupta SQLBase, or for supplemental information about related products, refer to the following documents, which are available on OpenText My Support (<https://support.opentext.com>).

- <https://knowledge.opentext.com/knowledge/llisapi.dll/Open/62165519>

4 Supported environments and compatibility

This section provides details about supported platforms, systems, and versions.

4.1 Supported systems

SQLBase is available to run on the following systems:

- Windows 8 & 8.1
- Windows 10
- Windows Server 2008 R2
- Windows Server 2012
- Windows Server 2016
- Windows Server 2019
- Red Hat Enterprise Linux 7 (7.3 and above)
- Red Hat Enterprise Linux 8

The Visual Studio plugin supports:

- Visual Studio 2012
- Visual Studio 2015
- Visual Studio 2016
- Visual Studio 2017
- Visual Studio 2019

4.2 OpenText product compatibility

The section provides details about which versions of other OpenText products are compatible with this release of Gupta SQLBase 12.3.



Note

For the latest compatibility information for OpenText products, refer to the Compatibility Matrix (<https://knowledge.opentext.com/go/matrix>) on OpenText My Support.

Product name	Version	Notes
OpenText Business Intelligence (OTBI)	11.0	
OpenText Integration Center (OTIC)	16.0	
OpenText Gupta Report Builder	6.3, 7.0, 7.1, 7.2, 7.3, 7.4	
OpenText Gupta Team Developer	6.3, 7.0, 7.1, 7.2, 7.3, 7.4	
OpenText Gupta TD Mobile	2.0, 2.1, 2.2, 2.3, 2.4	

4.3 Language support

Gupta SQLBase is currently localized in the following languages. Additional languages may be available in future releases.

Component	Languages							
	EN	DE	JA	FR	IT	ZH	ES	RU
SQLBase Server	B	UI	UI					
SQLTalk Plus	B		UI					
SQLTalk	B							
Command Center	B							

UI = user interface only

B = both user interface and online help

5 Installation and upgrade notes

This section provides additional installation and upgrade information, including related or third-party product information and any required critical patches.

5.1 Installation notes

Before you install Gupta SQLBase, review these additional installation notes and verify related product or third-party product requirements.

On Red Hat Enterprise Linux, the SQLBase distribution does not include certain libraries that are independently available through the package manager. These packages are:

- OpenSSL
- wxWidgets
- ICU – International Components for Unicode
- Java 1.8

These can be installed via the yum package manager. You may have to allow Linux to install its updates to enable more recent versions of the packages to be installed.

The wxWidgets package requires installation of the Extra Packages for Enterprise Linux repository. The following commands will install all of the above requirements:

```
# yum -y install epel -release
# yum repolist
# yum install wxGTK3 java -1.8.0-openjdk libicu openssl
```

5.2 Upgrade notes

Before you upgrade, review these instructions.

If you upgrade from an older version of SQLBase and you would like your databases to migrate forward, UNINSTALL your databases while running your older version of the server. This causes the .LOG files to be rolled into the .DBS, leaving only a .DBS file.

SQLBase 12.1 can read and upgrade .DBS database files from version 8.5 to the current version, but it can't convert .LOG files that go with the .DBS.

Another reason to uninstall the database files is that you might be migrating from the SQLBase 32-bit to SQLBase 64-bit. There is another database conversion required when converting between 32-bit and 64-bit.

This is why you'll want to UNINSTALL the database files before the upgrade to SQLBase 12.3.

This is a good time to also backup your files to another location.

6 Fixed issues

This section provides information about past issues that have been fixed in this release.

Issue	Summary
SQLB-1873	Enhancement to do an @scan or @find in reverse order - new function?
SQLB-2104	Implement CommandBehavior.KeyInfo in the .NET Data Provider
SQLB-2458	ODBC error with sql.ini file in \program files directory

Issue	Summary
SQLB-2668	Command Center - changing a column with a trigger doesn't work properly
SQLB-2712	64-bit ODBC driver crashes Access when loading pictures
SQLB-2716	SQLTalk Plus display issues
SQLB-2776	RowPounder test crashes server if run with forced big indexes.
SQLB-2794	Allow custom EDP Installer Maker file lists
SQLB-2812	Fix issues found through static analysis.
SQLB-2814	Introduce password strength rules
SQLB-2815	Data protection audit
SQLB-2824	SqlTalkPlus shows an error "The value for an Int16 was too big or too small." but works fine in SQLTALK
SQLB-2825	Server does not tell the Windows Service Manager if it exited with an error
SQLB-2826	Few problems in SQLTALKPlus which i have described below,
SQLB-2827	Deadlock details are not shown in a deadlock/timeout audit
SQLB-2829	Deadlock occurs when it shouldn't
SQLB-2832	DDEX provider issue
SQLB-2833	Wrong encoding in Gupta.SQLBase.Standard.dll when using with .net core 3.0
SQLB-2835	NETLOG ROLL option causes server crash
SQLB-2836	An update on a table with a self-referencing foreign key has bad performance
SQLB-2837	Document character encoding limitations with .NET Core/Standard driver
SQLB-2839	Missing files in installer for SSL Certificate creation

Issue	Summary
SQLB-2840	00107 SQL LNE Application Programming Error: Long operation not ended
SQLB-2841	We receive an error System.InvalidOperationException: 'Collection was modified; enumeration operation may not execute.'
SQLB-2842	.Net Data Driver 12.1 Multi Threaded Exception"Connection must valid and open"
SQLB-2843	An error 00107, occurs when reading LONGVAR columns in multiple threads:
SQLB-2844	Rolling back an insert on an AUTO_INCREMENT table generates a bad log record.
SQLB-2850	Set collation statements are not recognized in SQTalk Plus
SQLB-2853	Crash in Row Pounder test if using big indexes
SQLB-2854	The server password size is too small in the SBTASK database to handle a server security password
SQLB-2855	A view on a system table with custom columns causes load to fail
SQLB-2856	SQLBase EDP generating crash dump files on each shutdown
SQLB-2857	Need assistance to support for the containerization of SQLBase 12.2?
SQLB-2858	If DBDIR in sql.ini points to an invalid path, the server will silently appear to have started but will not accept connections.
SQLB-2860	License count problems with SQLBase EDP installations
SQLB-2862	SQLBase crashing with errors 9268 and 3804.
SQLB-2870	SQL Syntax is rejected in an update statement
SQLB-2871	Uninstalling SQLBase 12.2 64-bit leaves things on the PC after the uninstall
SQLB-2872	DBNTRV.EXE creates mini dump on crash even if MINIDUMP is not set in the SQL.INI file.
SQLB-2881	Crash in getPasswordStatus()
SQLB-2887	VSS initialization messages are lost from the process log

Issue	Summary
SQLB-2891	SQLPAIV database parameter returns wrong length and string.
SQLB-2895	Can't start the Database migration Wizard
SQLB-2896	Default.wsp file is not opening by default when we launch Command Centre
SQLB-2898	If configuration file is corrupted the Server Console will fail with an exception
SQLB-2902	keywordcheck on Linux still Shows Gupta Technolgies. Change to OpenText required
SQLB-2904	Fix Linux EDP problems
SQLB-2906	Grid and Audit options under Data Menu of SQLTalk plus are disabled
SQLB-2911	Change WPF Toolkit version due to licensing
SQLB-2912	Using EDP Maker, if you don't select SQLTalk, it doesn't install daemon32
SQLB-2914	Switching view in SQLTalk Plus causes text to be typed in backwards
SQLB-2918	Request for implementing, to Add Dynamic Years, Months, Days in SQL command
SQLB-2927	SQLBase 12.1.2 11996, crashes with unknown errors
SQLB-2928	Inserting a date time that's negative into a date column has a rounding error
SQLB-2929	Selecting long nvarchar column into long wstring variable fails in a stored procedure
SQLB-2931	When loading a file into a long varchar column, if file name contains one or more commas; does not work.
SQLB-2934	Stored Procedure with Long Name Fails in .NET
SQLB-2935	Sometime in SQLTalk, WString Parameter Not Passed Correctly to Stored Procedure
SQLB-2936	Inserting Text Files with SQLTalk Results in Dropping of Carriage Return value
SQLB-2937	SQLTalkPlus, Insert statement fails with an error "Error: 08384 SPE WOB No or insufficient BIND variables"

Issue	Summary
SQLB-2938	Inserting multi-line text into SQLTalk via inline text does not process CRLF conversions
SQLB-2940	Unable to start Command Center services
SQLB-2941	SQLBase Server Console does not show localized resources
SQLB-2945	Insert Statement Crashes SQLTalk session.
SQLB-2947	Application Deadlock crashes SQLBase server
SQLB-2948	Updating a table from a SQL Server linked table using OLEDB fails
SQLB-2967	Schedule PSMQ with Engineering Security
SQLB-2977	Add database name (when relevant) to FAIL.SQL messages.
SQLB-2979	Unexpected crashes of SQLBase after upgrading to new version.
SQLB-2980	OpenSSL - BDSA-2020-2711
SQLB-2982	Allow Stored Procedure to read a LONG string type larger than 64K from the database
SQLB-2988	OpenSSL - CVE-2020-1971 (+1)
SQLB-2990	@Bool Function in View Fails with Fatal Error 01901 SYS ICV
SQLB-2993	SQLBase ODBC/OLEDB drivers
SQLB-2995	Update EDP build for no RHEL6 support
SQLB-2996	Fix buffer overflows found by Fortify
SQLB-3000	SQLBase server crashes
SQLB-3002	Fix for SQLB-2948 may result in incorrect value being returned from SqlGetResultSetCount()
SQLB-3003	Command Center is closing automatically when closing the remote server(RDP)

Issue	Summary	
SQLB-3004	Update version of ICU used by SQLBase on Windows.	
SQLB-3006	The dropdown for the Command Type SQL doesn't show the SQL statement for a select in the 'Fetching' state.	
SQLB-3008	OpenSSL - CVE-2021-23839 (+5)	
SQLB-3009	Red Hat 8 compatibility	
SQLB-3015	sqlget(SQLPVER) returns 12.2.1 instead of 12.2.2.	
SQLB-3016	An exception "OutOfMemoryException" occurs while using sql.ini-file with SqlBaseConnection in Visual Studio	
SQLB-3018	Trigger tests dev/trg201 and dev/trg26 appear to hang on 64 bit release build	
SQLB-3019	SELECT IN command doesn't work as expected	
SQLB-3021	SQLBase server crashes .	
SQLB-3024	Merge EDP fixes from 12.2.2 to 12.3.	
SQLB-3025	@SCAN gives wrong results with NCHAR	
SQLB-3031	Use of SQLPCLN in stored procedures	
SQLB-3032	Performance issue with NCHAR and @SCAN	
SQLB-3033	SELECT does not find all rows with national language support when using an index and LIKE.	
SQLB-3035	Database crash with 00702 Fatal SQLBase system failure VIO PNO error.	
SQLB-3036	SB 12.2.2 ODBC driver different behavior for column names	
SQLB-3037	Memory leak problem within Gupta.SQLBase.Data.dll.	Actions
SQLB-3038	Performance issue while using 3rd party object	Actions

SQLB-3039	Upgrade OpenSSL to 1.1.1k	Actions
SQLB-3042	TRACEFILE command is not working in SB 12.2.2	Actions
SQLB-3044	Encrypt function returns different result after upgrade to SB 12.2.2 version.	Actions
SQLB-3046	ICU for C/C++ (ICU4C) - BDSA-2021-1591	Actions
SQLB-3047	Fix for SQLB-2757 also needs to be applied to 32 bit server	Actions
SQLB-3050	Fix possible buffer overflows found by Fortify	Actions
SQLB-3051	Fix double frees found by Fortify	Actions
SQLB-3052	Fix memory leaks found by Fortify	Actions
SQLB-3053	Fix type mismatch errors found by Fortify.	Actions
SQLB-3055	Fix dead code found by Fortify.	Actions
SQLB-3056	Fix insecure compiler optimization found by Fortify	Actions
SQLB-3057	Fix obsolete functions found by Fortify.	

7 Contact information

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