

OpenText Gupta SQLBase

Release Notes

12.2

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1 Introduction

These Release Notes provide an overview of SQLBase 12.2, 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
2019-07-08	First release.	All new content.
2019-07-23	Supported Systems	Added Visual Studio 2019 Support

2 About SQLBase

This section provides an overview of SQLBase 12.2.

SQLBase is a SQL relational database management system that includes a database server, database tools, and multiple front-end client interfaces. It is available to run on Microsoft Windows and Linux.

2.1 New features

SQLBase 12.2 includes the following new features.

2.1.1 New language features and functions

- @IFBOOL function to evaluate a Boolean expression

@IFBOOL(expression, value1, value2)

This function tests the Boolean expression and returns value1 if it is TRUE or value2 if it is FALSE.

The syntax of expression is the same as the syntax of expressions that can be used in the WHERE clause of a SELECT statement, including aggregates and subqueries.

- @ISNUMERIC function to determine if a value is numeric

@ISNUMERIC(argument)

This function returns 1 (TRUE) if the argument is numeric. A valid numeric value is defined as a value that is not NULL and is either already a numeric type or is a string type that can be interpreted as a valid number.

A string that can be interpreted as a valid number can have an optional sign (+/-) character, followed by one or more digits containing an optional decimal point (.) with an optional exponent of the form “e<optional sign><digits>”.

- LIMIT clause now supports an optional offset

The LIMIT clause has been enhanced to support an optional offset value which specifies the number of records to skip before returning the first result record from a SELECT. The syntax for the offset is: ... LIMIT <offset>, <limit> where <offset> is an integer constant specifying the number of records to skip, and <limit> is an integer constant specifying the number of records to return (after skipping).

- @SUBSTRING and @MID now support LONG VARCHAR and LONG NVARCHAR

The @SUBSTRING and @MID functions can now be called on LONG VARCHAR and LONG NVARCHAR values. The return value will be limited to 900 characters for LONG VARCHAR and 450 characters for LONG NVARCHAR input values.

2.1.2 New features in SQLTalk Plus

SQLTalk Plus is becoming the single point of action for server and database maintenance, data maintenance and SQL editing and testing.

- Scheduling of database maintenance tasks via the Windows task scheduler.
- Database auditing to detect issues and performance bottlenecks.
- Easy access to Server, database and user statistics.
- The SQLBase server Process Activity Log can be viewed from inside SQLTalk Plus.

2.1.3 .NET Data Provider

- A new class, Gupta.SQLBase.Data.SQLBaseServerConnection has been added, which enables access to the server instance. This can be used to execute administrative statements including, but not limited to, CREATE/DROP DATABASE. This new class also includes a Backup/Restore API. However only ON SERVER backup and RESTORE operations are supported. ON CLIENT will throw an exception if used. With this addition, SQLBaseConnection.OpenServerConnection has now been marked deprecated, and should no longer be used.
- Server information (provided by the API function sqlgsi) can now be retrieved. This is accessible with the SQLBaseServerConnection.GetServerInformation() method.
More information on the above two items can be found in the .NET Data Provider API
- The Assembly Version will no longer change with every hotfix or update. This is in line with Microsoft best practices. For example, the AssemblyVersion for the SQLBase 12.2 .NET provider is 12.2.0.0 and will remain that for the entire 12.2 product cycle, so the SQLBase 12.2.1 NDP will still have an AssemblyVersion of 12.2.0.0 (unless an incompatible change was made). The product version and file version will continue to change as normal. This will prevent the need for adding binding redirects or recompiling customer applications when a patch is installed. To make sure a patched DLL is used, simply replace the old one on the filesystem, or make sure it's added to the GAC, and the runtime will simply use the latest one available. If the installer is used to install an update, this step will be done automatically. The AssemblyVersion will only change for major releases, or if an incompatible change has been made. This should greatly simplify deployment of the .NET Data Provider, including complications that have arisen in the past with the DDEX Provider.

- A .NET Standard compliant Data Provider is now available, and is included with both the standard Windows installer, as well as the Linux Embedded Deployment Pack (EDP). This has been built to support .NET Standard 2.0 or later, which is compatible with both .NET Framework 4.6.1 and higher, and .NET Core 2.0 and higher. This new driver has been tested on both Windows and Linux and should be compatible with any .NET runtime implementation supporting at least .NET Standard 2.0.

This has been included in addition to, not in replacement of, the regular .NET Framework 3.5 compatible .NET Data Provider. The new provider is Gupta.SQLBase.Data.Standard.dll (however the namespace remains Gupta.SQLBase.Data).

Development under .NET Core with this library requires the .NET Core SDK 2.0 or higher (2.1 or higher recommended), which is available for multiple platforms from Microsoft at <https://dotnet.microsoft.com/download> .

NOTE: The new Backup/Restore API, as well as the older Treasury Edition encryption (SecureAPI) are not available for the .NET Standard driver. SSL encryption is available and supported, however. Documentation.

2.1.4 Improvements to the Server Console on Windows

- The Server Console on Windows no longer uses MDI. Instead, it defaults to a tabbed window interface with windows that can be dragged to float outside the main window or docked to the sides of the window. To float or dock a window, select the window tab (for a tabbed window) or window title (for a docked or floating window) with the mouse and drag. Icons will appear that will show where the window can be docked. Drag the tab outside the main window to float the window, or drag it to one of the icons to dock it or make it a tab.

2.2 Discontinued and deprecated features

The following features have been discontinued in this release:

- No discontinued features.

The following features have been deprecated in this release:

- No deprecated features.

3 Packaging and documentation

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

3.1 Packaging and delivery information

The software and documentation for SQLBase includes:

- Windows 32-bit Install
- Windows 64-bit Install
- Redhat Linux 6 32-bit Install

- Redhat Linux 6 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 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 7 SP1
- Windows 8 & 8.1
- Windows 10
- Windows Server 2008 R2
- Windows Server 2012
- Windows Server 2016
- Windows Server 2019
- Red Hat Enterprise Linux 6 (6.9 and above)
- Red Hat Enterprise Linux 7 (7.3 and above)

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 SQLBase 12.2.

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	
OpenText Gupta Team Developer	6.3, 7.0, 7.1, 7.2	
OpenText Gupta TD Mobile	2.0, 2.1, 2.2, 2.3	

4.3 Language support

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
```

If you are installing the 32-bit RPMs on a 64-bit Red Hat Enterprise Linux 6, the 32-bit versions of ICU, OpenSSL and wxWidgets are required:

```
# yum install wxGTK3.i686 libicu.i686 openssl.i686
```

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 12.1.

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 number	Issue description
SQLB-2434	Command Center has a limit to the number of cursors and processes shown
SQLB-2687	Duplicate processes on a server are shown via SQLConsole and Command Center
SQLB-2726	Loads and unloads with longs using SQLTalk Plus not correct
SQLB-2738	Regression: SqlDirectoryByName doesn't work with TDM2.2
SQLB-2746	An unload cannot be done from a user with role permissions
SQLB-2747	The optimizer is not choosing a correct execution plan for a self table join
SQLB-2748	Error 839 on query involving a temporary table, even though CHECK DATABASE is clean.
SQLB-2749	Removing a server entry from the SQLTalk Plus prevents removal of another
SQLB-2751	Error "11733 PRS EXF External functions are not supported in this environment..." should not include "under Win16" now
SQLB-2754	External Authentication doesn't work using TCP without a network connection
SQLB-2756	Linux server exits immediately
SQLB-2757	Call to 64-bit cdlli71.dll with more than one NUMBER parameter causes exception
SQLB-2762	Data .NET Driver raises an error "08384 SPE WOB No or insufficient BIND variables" error when using "?"(question mark) in a SQL select statement.
SQLB-2766	Length discrepancy in sqlgsi result vs filter
SQLB-2767	A problem encountered while using a Before Insert trigger on a table.
SQLB-2769	IMS and OMS in .NET provider is limited to 32k

7 Contact information

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