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Gupta – current releases – roadmap
SQLBase data protection audit

All the product news

29 03 2022 | Helmut Reimann | Lead Solution Consultant

Gupta SQLBase lifecycle

Every OpenText product version has a 5-year lifecycle

Product	In Engineering Support until
SQLBase 12.3.X	**August 2026**
SQLBase 12.2.X	**July 2024**
SQLBase 12.1.X	**July 2022**
SQLBase 12.0.X	**August 2020**
SQLBase 11.7.X	**November 2017**
SQLBase 11.6.X	**September 2016**
SQLBase 11.5.X	**August 2015**

Gupta TD Mobile lifecycle

Every OpenText product version has a 5-year lifecycle

Product	In Engineering Support until
TD Mobile 2.4.X	**April 2025**
TD Mobile 2.3	**June 2024**
TD Mobile 2.2	**September 2023**
TD Mobile 2.1	**February 2022**
TD Mobile 2.0	**September 2020**
TD Mobile 1.2	**November 2016**
TD Mobile 1.1	**November 2016**
TD Mobile 1.0	**September 2015**

Gupta Team Developer lifecycle

Every OpenText product version has a 5-year lifecycle

Product	In Engineering Support until
Team Developer 7.4.X	**July 2026**
Team Developer 7.3.X	**January 2025**
Team Developer 7.2.X	**September 2024**
Team Developer 7.1.X	**May 2023**
Team Developer 7.0.X	**October 2021**
Team Developer 6.3.X	**March 2020**
Team Developer 6.2.X	**August 2017**
Team Developer 6.1.X	**March 2016**

OpenText maintenance

Having maintenance for Gupta products has many benefits

- Access to MySupport.opentext.com
    - Download new versions and service packs
    - Request installation keys
    - See product roadmap
    - See product lifecycle
    - Search for knowledge base content
    - Access to customer support

opentext.com/support

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Gupta product roadmaps

Gupta Report Builder, Gupta SQLBase, Gupta TD Mobile, Gupta Team Developer

Gupta SQLBase Roadmap

OpenText Gupta SQLBase is the perfect embedded database for software solutions that require dba-free operations. SQLBase can be deployed in conjunction with software solutions and requires minimal maintenance. For software developers SQLBase offers many APIs and drivers that allow to use SQLBase from virtually any IDE. Testing and automated maintenance tools help ISVs and developers to deploy solutions that simply run. SQLBase is available for Windows and Linux and offers powerful and easy to use testing and administration tools. New security feature add-on to the powerful existing data encryption and protection features. New developer features integrate deep with .NET and SQLTalk Plus enhancements ease dba work.

Gupta SQLBase 12.3 released August 2021

Security enhancements

- Set password strength rules for increased security of SQLBase deployments
- Data protection audit to comply with GDPR rules

Developer and query features

- Reverse order @scan/@find to allow for better search capabilities

Other features

- Ability to provide EDP installer maker file lists

Gupta SQLBase 12.4 Q4 2022

Enhance usability for database administrators (DBAs) and IT staff

Enhancements for software developers that develop for SQLBase and include SQLBase into their applications

Increase flexibility of the SQLBase EDP Maker tool

Gupta SQLBase 12.5 2023

New database developer features

Enhancements for database administrators (DBAs)

Customer requested features

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Gupta TD Mobile Roadmap

OpenText Gupta TD Mobile is a **high value software development environment for HTML5 and mobile applications** for Android, iOS and Windows. The big advantage of TD Mobile is that one IDE and codebase can be used to deploy to all these different platforms which saves significant money if compared to native development for all these platforms. Additionally, TD Mobile uses a low-code or no-code approach wherever possible for highest productivity. Reporting enhancements add more control and easy to view charting capabilities to Web and mobile reports.

Gupta TD Mobile 2.4
April 2020

Reporting enhancements
- Business charts in Report Designer reports
- Page break for Report Designer reports

Customer requested features
- Low-code REST import wizard
- JavaScript enhancements to set table column visibility and to set a table cell focus

SalMail security updates
- TLS 1.2 support etc.
- OAuth authentication support

Gupta TD Mobile 2.5
Q4 2022

New APIs
- New API for Excel file export on the server

UX enhancements
- Improved grid control
- Enhanced ListView control
- Enhancements for the date control
- Enhancements for the chart control
- Desktop web applications additionally to smartphone and tablet layouts
- New popup menus

Reporting enhancements

Data class enhancements

Gupta TD Mobile 2.6
2023

New APIs

User experience enhancements

Reporting enhancements

Data class enhancements

Gupta Team Developer Roadmap

Gupta Team Developer is a high value software development environment for Windows desktop applications. Team Developer offers low-code software development, has connectivity to almost any backend database and software service (Web and REST services). The built-in UX controls are powerful and very feature rich. Team Developer is a comprehensive package with support for Win32/Win64, .NET, Web Services, Reporting and much more. Control anchoring makes sure users can resize their windows and view more information on UHD displays. Code profiling evolves with easy access to problematic code areas and more customer requested features.

7.4
July 2021

Programming features
- For each loops
- Continue statement for loops
- UDV cloning

Application deployment enhancements
- Installer creator for Win32/Win64 applications

Reporting enhancements
- Up to 16 break groups
- API to print PDF files
- Duplex printing

UX features
- Window zoom
- .NET control anchoring
- Ribbon Bar class

7.5
Q4 2022

IDE enhancements
- IDE usability improvements
- Build enhancements
- Source control enhancements

UX features
- Grid enhancements
- New browser control

New APIs
- New APIs for higher application usability and development improvements

Database connectivity enhancements

7.6
2023

Programming enhancements

UX enhancements

Reporting enhancements

Customer requested features

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Gupta SQLBase data protection audit

How to comply with regulatory data protection requirements like GDPR

Data protection audit

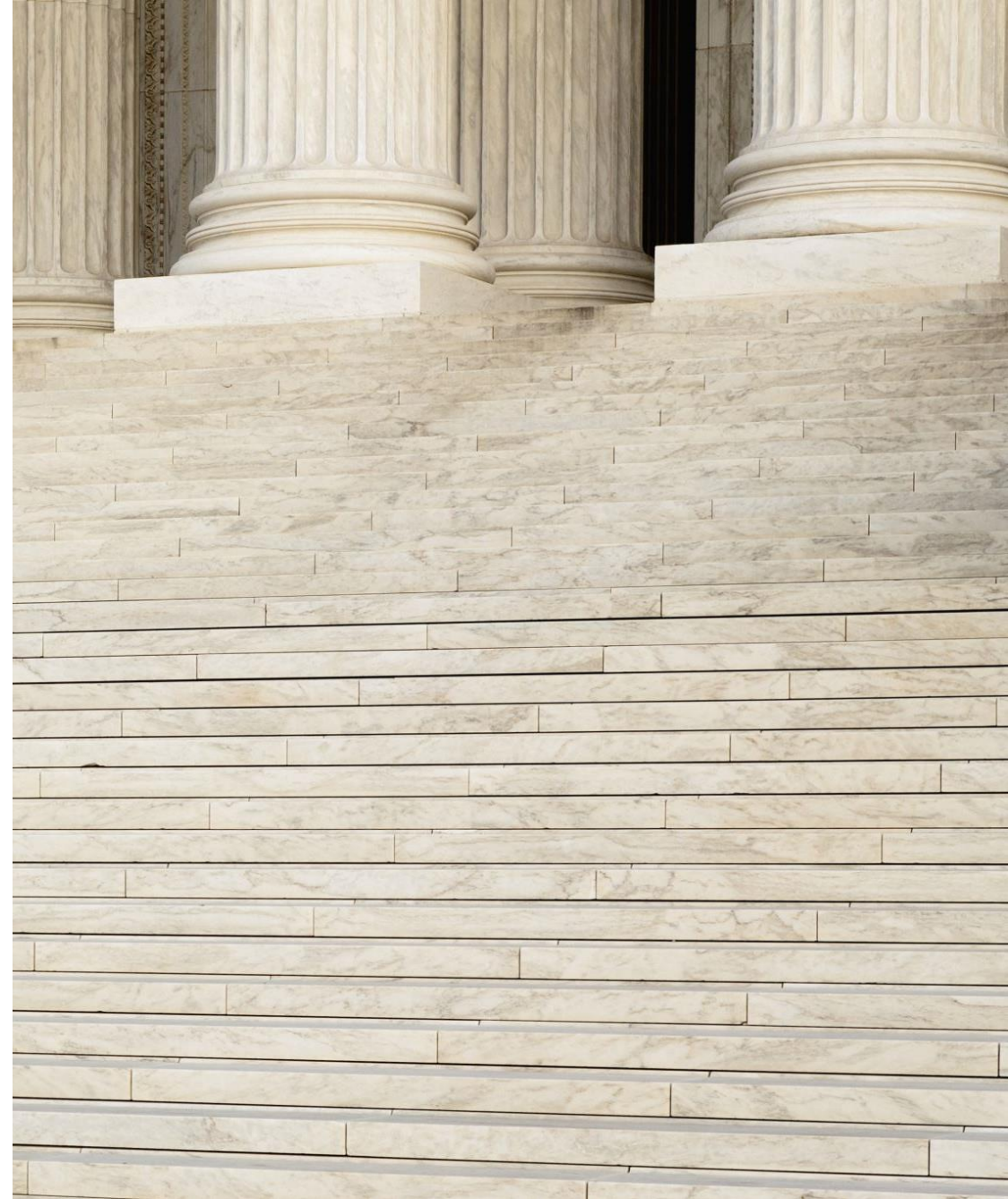**GDPR and other regulations may require to audit all changes to a database**

Who has altered what value at what time?

Who has inserted what data at what time?

Who has deleted what data at what time?

Also useful for

- Database application debugging

- Verifying security breaches

- Etc.

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SQLBase data protection audit

1

Enabling DPA

One DPA database can contain DPAs for multiple databases

Create the DPA database from SQLTalk
- SET SERVER server_name/server_password;
- CREATE DATABASE DPAUDIT;
- CONNECT DPAUDIT;
- LOAD SQL DPAUDIT.SQL;
- DISCONNECT ALL;

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SQLBase data protection audit – sql.ini

2

Configuration of DPA

One statement in sql.ini for every all databases that shall be audited

- dataprotectionaudit=auditdatabase=dpaudit;databases=island:4,sbtask:4,guptais:4

Logging levels

Audit Level	Description
0	Only audit the database operations (insert, update, delete, commit, rollback). Information on the specific columns updated by the operation will not be logged. This is the default if a level is not specified.
1	Also list all columns that were changed in an UPDATE operation. No actual data will be logged, just column names
2	Also add before/after images for columns changed in UPDATE operations.
3	Also add after images for columns involved in INSERT operations.
4	Also add before images for columns involved in DELETE operations.

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SQLBase data protection audit – tables for querying

DPA database structure

Three tables

3

- DPA_OPERATION
  - Contains one row for every db operation. (INSERT, UPDATE, DELETE, COMMIT, ROLLBACK)

- DPA_COLUMN
  - Contains one row for every modified column. INSERT, UPDATE and DELETE

- DPA_COLUMN_VALUES
  - Contains before and after data images for supported columns types.

Read all the details
in the SQLBase database
administrators guide
pp 155+

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SQLBase data protection audit

Manually querying DPA

Examples

- **Show all tables modified by user "BOB" in the last day:**
  - SELECT DISTINCT OP_TABLE FROM DPA_OPERATION WHERE OP_USER = 'BOB' AND OP_TIMESTAMP > @ADDDAY(@NOW, -1);
- **Show the last modification of the fourth column of a specific row of the PRESIDENT table:**
  - SELECT DPO.OP_OPERATION, DPO.OP_TIMESTAMP, OP_USER, DPC.COL_BEF, DPC.COL_AFT FROM DPA_OPERATION DPO LEFT OUTER JOIN DPA_COLUMN_VALUES DPC ON DPO.OP_SEQUENCE = DPC.COL_OP WHERE DPO.OP_TABLE = 'PRESIDENT' AND DPO.OP_RID = 'CNAAAAAAAKAAAAAANKAHAAAAAAAAAAAFKJABAAAA' AND DPC.COL_NUM = 4 ORDER BY DPO.OP_SEQUENCE DESC LIMIT 1;

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Demo and bonus Team Developer app

Visual tool for DPAudits written using Team Developer 7.4

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Q & A

Gupta product update