

CA Log Analyzer™ for DB2 for z/OS



At a Glance

CA Log Analyzer™ for DB2 for z/OS (CA Log Analyzer) is a powerful product that analyzes DB2 log and SMF records to aid in auditing data changes, recovering data, backing out errant updates without impacting application availability, and migrating changes to other subsystems or relational database management systems.

Key Benefits/Results

- **Enhanced log analysis.** Uses DB2 log data to create easy-to-read reports, undo erroneous updates, propagate changes to other subsystems.
- **Regulatory compliance.** Audits table access, data changes and DB2 commands submission
- **Recovery assistance.** Identifies recovery (quiet) points in the DB2 log & provides automated dropped object recovery.

Key Features

- **Log change records.** Accesses the DB2 log records to roll back committed work or to “replay” what happened.
- **Audit capabilities.** Uses the DB2 logs to build an audit trail.
- **SMF audit reporting.** Tracks and reports on security violation attempts using the internal DB2 audit trace.
- **Log analysis reporting.** Provides many built-in reports to easily investigate the contents of the DB2 log. To support individual users, each report can be customized, and this customization can be saved for future use.
- **Dropped object recovery.** Automatically recovers accidentally dropped objects.
- **Recovery information.** Uses log information to determine appropriate recovery actions and assist in identifying consistent recovery points.
- **Utility wizards.** Provides wizards to set up the JCL and control information that is needed to run the DSN1LOGP and DSN1COPY DB2 utilities.

Business Challenges

If you want to access DB2 log information, you must print the log contents via the DSN1LOGP utility, which can be difficult to read and analyze due to its hexadecimal format. You need a solution that can display DB2 log data in a concise, easy-to-read format, audit data changes, back out erroneous updates while keeping DB2 applications available and propagate changes to other relational database management systems.

Solution Capabilities

The following CA Log Analyzer reports provides regulatory compliance data. The reports are fully customizable to support individual needs:

- **Audit reports:**
 - Who changed what data and when.
 - DML, DDL and DCL activity.
- **SMF audit reports:**
 - **Failed access:** Show who attempts unauthorized object access.
 - **Grants/revokes:** Show who has object access.
 - **DDL activity:** Track CREATE, ALTER and DROP statements.

To back out errant transactions, reapply lost changes, or replicate changes on another subsystem the following reports are provided:

- **UNDO SQL:** Back out committed changes.
- **REDO SQL:** Reapply changes.
- **LOAD format report for APPLY utility:** Replicate changes using high speed REDO/UNDO SQL engine.

To aid DB2 recovery tasks the following features are available:

- **Dropped object recovery:** Provides automated recovery.
- **Quiet Point Analysis:** Show/register DB2 log recovery points into SYSIBM.SYSCOPY.

Other log analysis reports provide information about data changes, object definition changes and recovery:

- **DML activity:** Show data changes.
- **DDL activity:** Show changed object definitions.
- **Commit frequency:** Show excessive updates between commits.
- **Image copy frequency:** Show excessive updates between copies.
- **Rollbacks:** Show subsystem rollbacks.
- **Change data capture:** Show how DATA CAPTURE CHANGES affects logged data.
- **Changed data:** Show changed data since the last backup.
- **Image copy status:** Verify tablespace recoverability.
- **BSDS:** Verify that log data sets are recorded in the Boot Strap Dataset.

Critical Differentiators

SMF audit reporting. CA Log Analyzer provides advanced auditing on security violation attempts in DB2. It also tracks grants and revokes so you can see who is being granted access to which objects and by whom. It can also report on DDL activity, allowing you to track who is creating, altering or dropping DB2 objects.

Related Products/Solutions

CA Log Analyzer is integrated with the following CA Technologies products:

- **CA Fast Load for DB2 for z/OS (CA Fast Load).** Accepts load files generated by CA Log Analyzer.
- **CA Fast Recover for DB2 for z/OS (CA Fast Recover).** CA Log Analyzer may call CA Fast Recover as part of the Dropped object recovery process.
- **CA Object List Manager for DB2 for z/OS (CA Object List Manager).** CA Log Analyzer accepts Object Lists as in input to some of its reports.

For more information, please visit [ca.com/db2](https://www.ca.com/db2)

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