



**ACTIVEVIAM**

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# ActiveLedgers - Facilitating and Shortening the Accounting Period Close

WHITE PAPER



# Why do so many business users in financial management struggle with the financial accounting close?

At each month end, valuable time is spent consolidating data from different systems, performing reconciliations, preparing manual General Ledger adjustment entries, or investigating postings rejected from the GL feed. Typically, spreadsheets are used to store business rules, perform calculations, and execute many other tasks such as the creation of manual postings. This results in standalone, error-prone processes that are complex to modify in the event the business policy changes. Furthermore, financial managers must meet high data quality standards and ensure that any action is traceable and fully audited. As a result, closing the accounting period within the required number of days is only achieved with increased overtime effort and higher costs.

**ActiveLedgers by ActiveViam is an innovative software application designed to facilitate and shorten the accounting period closing cycle through real-time data consolidation, rule-based automation, and interactive analysis. Not only does ActiveLedgers accelerate the accounting period close, but it also enhances traceability and improves the overall reliability of the accounting data.**

## Tailored to meet operational needs of business units' financial managers

ActiveLedgers helps business unit financial managers organize, analyze, and verify the detailed accounting event postings in an optimal manner prior to feeding the summarized journal entries to the corporate General Ledger. Sitting seamlessly between multiple transactional systems and the GL, ActiveLedgers is where accounting data can be gathered, analyzed, validated, and maintained for the purpose of business unit financial reporting. ActiveLedgers is built on top of the industry leading ActivePivot aggregation and calculation engine.

Collecting accounting data from a variety of sources – transaction systems, systematic or manual journal entries – ActiveLedgers translates and enriches that data based upon accounting

rules to produce detailed postings that are summarized by posting date, ledger, business unit, etc. to feed the corporate General Ledger.

Entirely configurable, the accounting rules stored in ActiveLedgers automate the creation of standard journal entries that are tied to business events such as local currency equivalents, reversals, alternative basis, or balance recognition, thus saving financial managers valuable time. Any posting, even the manual ones, are organized into an accounting task that follows a workflow to capture the required levels of approval to post to the GL. All along the way, the data is audited so that financial managers have a clear vision about where the data came from and how the postings were generated.

Business unit financial managers are able to analyze the data at a level of detail that is not available in the corporate General Ledger. Analysis and reporting, including aggregation / slice & dice / filtering, etc. is possible on business elements contained in ActiveLedgers that may not be needed, or of interest for the corporate GL. This facilitates the detection of errors and subsequent root cause analysis. What-if simulations can be performed to understand the financial impact of new transactions on the business's financial statements.



# Business Benefits

Active Ledgers provides financial business units with the ability to accelerate the financial close and improve its overall quality and reliability. Business benefits include:

**Unified financial reporting system**  
Data from multiple disparate processes is captured and audited in ActiveLedgers and held in a consistent format.

**Real-time analysis**  
Analysis of the data can begin as soon as it arrives – there is no need to wait for batch processes to see the impact of a data feed to the account balances.

**Data granularity**  
Detailed data retained in ActiveLedgers rolls up to and reconciles with the corporate GL. Business unit financial managers can track the details of account balances; details that are not normally available in the corporate GL.

**Less manual entries**  
The number of manual entries required is reduced by automating the creation of postings via the accounting rules.

**Traceability of data from source to GL**  
The history of an accounting task shows the source, the rules, the workflow, and the approval process to which that accounting task was subjected.

**What-if analysis**  
Business unit financial managers can perform what-if analysis to see the impact of new products or new accounting policies.

**Process re-runability**  
It allows data corrections to be made at the source and re-run through ActiveLedgers with only delta postings required if prior results were already posted to the GL.

**Reduced dependency on IT**  
Power users can modify accounting rules without the need to have IT code and deploy new versions of the software.

## Real-time account balance calculation and analysis

A frequent issue is the lack of data timeliness. Financial managers don't always have access to the latest trial balances, roll forward, or income statement reports from applications that are batch processed. Because ActiveLedgers is built on a real-time aggregation and calculation engine, Account Balances are instantly calculated when the postings are entered. There is no need to wait for the next batch process to begin the analysis: trial balances, roll forward, or income statements are immediately available for analysis. Automated notifications are possible to alert users when account balances reach certain threshold levels, or to keep track of the arrival of data from external sources. Drill-through capabilities speed-up the investigation of changes in account balances by pinpointing the contributors to the account balance change. Users have access to the current period, as well as to prior period data, and their audit trails, to help in the analysis and investigation. Not only is the time to close significantly reduced, but also the close process is more efficient.

## Reduced reconciliation differences

One key to improved data quality is to make data corrections at the source and reduce manual adjustments in the corporate GL. In ActiveLedgers, all processes are re-runnable. Data is corrected at the source and re-run through ActiveLedgers. This reduces the amount of adjustments that are required in the GL, as well as reduces reconciliation differences between systems. Because ActiveLedgers keeps track of the results of the prior run of an accounting task, the application is able to determine if the prior results are already posted to the GL. If the postings were not sent to the GL, a rerun process simply "throws away" the prior results and replaces them with the new and improved results. If, however, the postings from the prior run were already posted to the GL there is no need to produce extra postings to reverse the prior erroneous postings and create new postings; ActiveLedgers calculates the delta amount to send to the GL to correct the balance in the General Ledger.

Since the data correction is done at the source in an auditable, straight-through process, ActiveLedgers improves data quality, reduces reconciliation issues, and improves time to close.

## Quicker response to changes through user-configurable rules

ActiveLedgers stores data transformation rules, accounting rules, workflow processes, and all of the accounting task creation logic that pertains to the accounting period end close. While changes to these rules are only made after proper validation and testing, the ability to make changes to the underlying logic rests in the hands of the business's power users. Technical staff do not need to make code changes in the application and organize a new release.

Let's consider a new audit requirement that now requires postings in excess of \$100,000,000 to obtain additional approval: an ActiveLedgers "power user" is able to modify the workflow rules. Once tested, the modified state transition logic is immediately updated in the production environment without introducing a single code change or requiring the system to go offline.

## Instant what-if analysis for enhanced impact assessment

ActiveLedgers differs from other applications by providing the financial manager with the ability to perform instant what-if analysis. Postings can be entered to simulate a new product or a new financial accounting rule. As a result, What-if analysis can be done by the financial manager to immediately assess the impact of introducing a new accounting policy, a new transaction, a new accounting rule, or a new product on the business' financial statement.

## Unparalleled level of data granularity for better reporting

ActiveLedgers is ideal for those business units that need to keep greater detail of accounting postings for reporting and analysis than is maintained in the corporate General Ledger. Detailed data that is not available in the GL is available to the business unit financial managers. In addition, financial managers can enter adjustments to the accounting data directly within ActiveLedgers. For example, if the financial manager discovers a business unit reporting issue after the corporate GL period is closed, he can always adjust the underlying details for his own business unit reporting and analysis directly within ActiveLedgers. All data in ActiveLedgers does not have to be included in the GL extract data. As a result, the business unit is in full control of the business unit's period close.



# Powered by ActivePivot

ActiveLedgers is built on top of the award-winning data analytics platform ActivePivot. ActivePivot is an object-based, in-memory, real-time aggregation platform with rule-based continuous queries. ActivePivot captures massive amounts of data and computes sophisticated measures instantly, making them available for real-time, intraday or historical analysis. This delivers the following technical advantages:

## Data schema agnostic

ActiveLedgers is agnostic to the source or structure of the chart of accounts data and will facilitate the mapping of transaction data into the format required for journal entry postings, thus eliminating time-consuming data manipulations. ActiveLedgers does not require the installation of yet another set of reference data that needs to be mapped from transaction system(s) to the GL.

## Ease of integration

Its schema-less nature allows ActiveLedgers to use data from many systems and to integrate within big enterprise ecosystems readily.

## Configurability

Configurable accounting rules enable the transformation of transaction data into subledger postings. Configurable workflow rules assign maker/checker responsibility by accounting task type.

## Advanced reporting

Complex scheduled and ad-hoc reporting functions are available on all aspects of the data model (postings, tasks, etc.)

## Incremental processing

ActiveLedgers absorbs data as it arrives and performs what-if simulations for new accounting policies. Adjustments entered in ActiveLedgers may be business specific details not sent to the corporate GL, or manual postings intended to correct the corporate GL.

# Case Study

## Shortening the monthly close at a large financial organization

### Problem

A large financial institution in the US wanted to improve their monthly reporting close process. More specifically, they pursued the following goals:

- ▶ Reduce the number of manual entries that are posted to the corporate-wide general ledger system each month
- ▶ Improve the rejection rate of systematic postings to the general ledger due to invalid account numbers or other bad reference data
- ▶ Introduce straight-through processing
- ▶ Reduce the time to close the accounting period each month.

These goals were in competition with the business needs to add new products in an environment where there already existed a number of transaction systems that were not easy to modify and did not connect directly to the general ledger system to ensure proper reference data validations. The financial accountants were spending unnecessary days each month-end performing reconciliations, investigating postings rejected from the general ledger feed, and preparing manual general ledger adjustment entries. The key control points continued to grow, not lessen.

### Solution

The firm decided to implement ActiveLedgers. As a result of financial accountants using ActiveLedgers:

- ▶ Transaction systems now feed into the subledger every day
- ▶ Journal entries are created from the transaction system feeds, using user extendable rules
- ▶ Validation rules use general ledger reference data to ensure that subledger postings will feed into the GL without error
- ▶ Straight-Through-Processing can be established using workflow rules to allow postings to flow to the general ledger with user defined approvals
- ▶ Manual adjustments made in ActiveLedgers are subject to the same validations as all systematic postings
- ▶ All actions and rule executions are audited

### Results

The financial institution achieved the following benefits:

- ▶ The number of rejections from the general ledger has reduced nearly 90%
- ▶ Financial accountants have a complete view of the postings entered to a given account for a given business unit for the particular instrument ID
- ▶ 40% of the monthly postings are created through systematic interfaces and business rule processing, and further effort is focused on raising that to 70% within the next year
- ▶ Detailed reporting is available in the subledger before postings reach the general ledger
- ▶ There are now only 3 key controls in the monthly close process

Overall, less time is being spent on correcting rejected postings; introducing ActiveLedgers reduced the accounting close period by 1 – 2 days each month-end.

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# About ActiveViam

ActiveViam provide precision data analytics tools to help organizations make better decisions faster.

ActiveViam started in 2005 with the vision of leveraging in-memory technology to create an analytics platform where businesses could leverage the largest data sets without restrictions, keep them up-to-date in real time and use them to empower their decision makers.

Our goal at ActiveViam, is to let organizations not only make decisions faster, but better; to not only reach their data, but their potential; to not only see their data, but find their way into the future.

ActiveViam is a privately owned company with offices in Paris, London, New York, Hong Kong and Singapore.

For more information please visit:  
[www.activeviam.com](http://www.activeviam.com)