



The 5 Main Challenges in Financial Accounting

Classical banks are facing big challenges that require an upgrade of their outdated Financial Accounting to new and more efficient platforms.

Financial Accounting is a core function but still one of the infrastructurally least advanced ones in Banks. The majority of the core systems of big banks are self-developed and based on mainframes. Since years they have been modified to the extent that they have become too complex and difficult to maintain. We have analyzed the situation and have found 5 main challenges for Financial Account Systems.

These are the 5 main Challenges for Financial Accounting Systems

1. Complex reconciliation Processes

Reconciliation is one of the core processes in Financial Accounting to make sure that a transaction captured at front Office is exactly what is booked at the back office. With so many in-house and old systems these reconciliation processes have become complex and tedious.

2. Huge elapsed times due to batch cycles

Even today many huge banks work with overnight batch cycles to process huge amount of data. Due to a dependency on batch runs, business must wait for the next day to verify the results of their actions.

3. Manual and tedious processes to verify and prove data integrity

Current systems used by banks do not guarantee that transaction logged into the system has not been tampered with. There are manual as well as automated processes in place to verify and prove data integrity. These processes are time consuming.

4. Scalability of technical systems

With growing amount of data, current banking systems face the challenge of scalability. To scale these systems is budget intensive and it also puts limitation on process improvements and automation.

5. Ever increasing regulations

Post the 2008 financial crisis, banks are under constant pressure to comply with the ever increasing and stricter regulations. Current systems are not capable to cope with these challenges.

The current infrastructure comes with some risks. The results can be monetary loss, regulatory penalties, loss of customer trust and hence customer base and finally reputational damage.

How to deal with these challenges: Financial Accounting with AWS QLDB

To minimize these risks, we offer a solution: **Quantum Ledger Database (QLDB)** is a database launched by AWS specifically for Record- or Bookkeeping. Underneath it uses the same technology as Blockchain, however unlike Blockchain, it is centralized and does not need multiple parties to authenticate data.

What are the 5 advantages of QLDB for financial accounting?

1. Golden source of data

With one single golden source of data, it eliminates the need of reconciliation at every step reducing the number of SOX controls required.

2. Hardened Data integrity

Each journal modification is sequenced and chained together with hashing technique, SHA-256, making each transaction cryptographically verifiable.

3. Full data transparency due to complete and easily accessible historical events

Each transaction is stored as immutable and append-only journal. Each revision on this data is versioned, enabling users to query the current as well as history of the transaction data.

4. No need of an additional archiving system

QLDB tracks and stores every single change ever made which is then easily accessible to the user. This eliminates the need of an additional archiving system.

5. Automatic scaling to cope with demanding requirements

Being a fully managed, serverless and available database service, it is automatically scalable as per the demands of the applications.

So what is next?

It's time for big classical banks to upgrade their outdated systems to new and more efficient platforms. With upgrading to new technologies companies can free up human resources that can then concentrate on more complex transaction and processes rather than tedious and labor-intensive tasks. We already see new virtual banks emerging that are working with advanced technology and therefore faster customer service. These are a threat, especially for those banks that are not

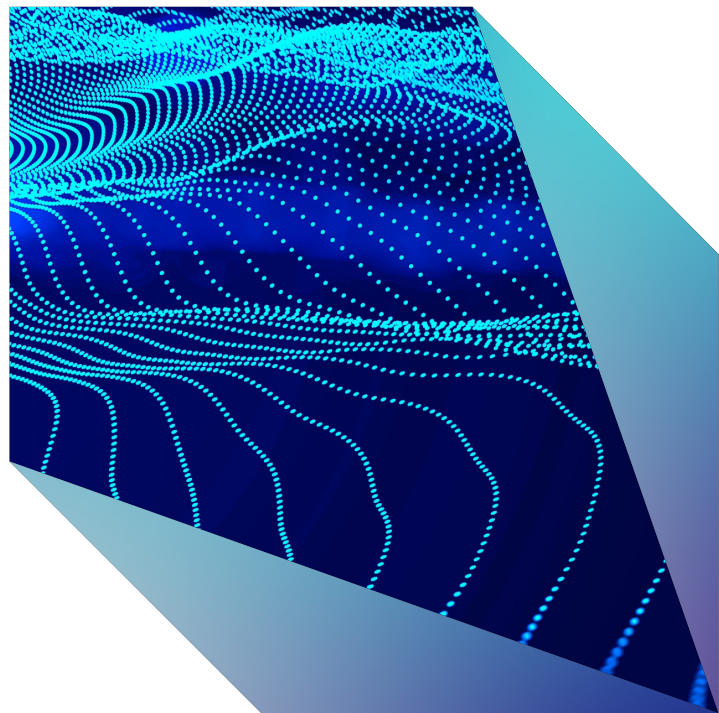
upgrading their technology as soon as possible. Another threat is non-financial institutions which are also gradually taking up the space as they are not heavily regulated like normal financial institutions. Anyway it is important to remember that classical banks still have an advantage over virtual banks and non-financial institution because of their physical presence and loyal customer base. They must leverage it to their favor by investing in new technology.

Our contact



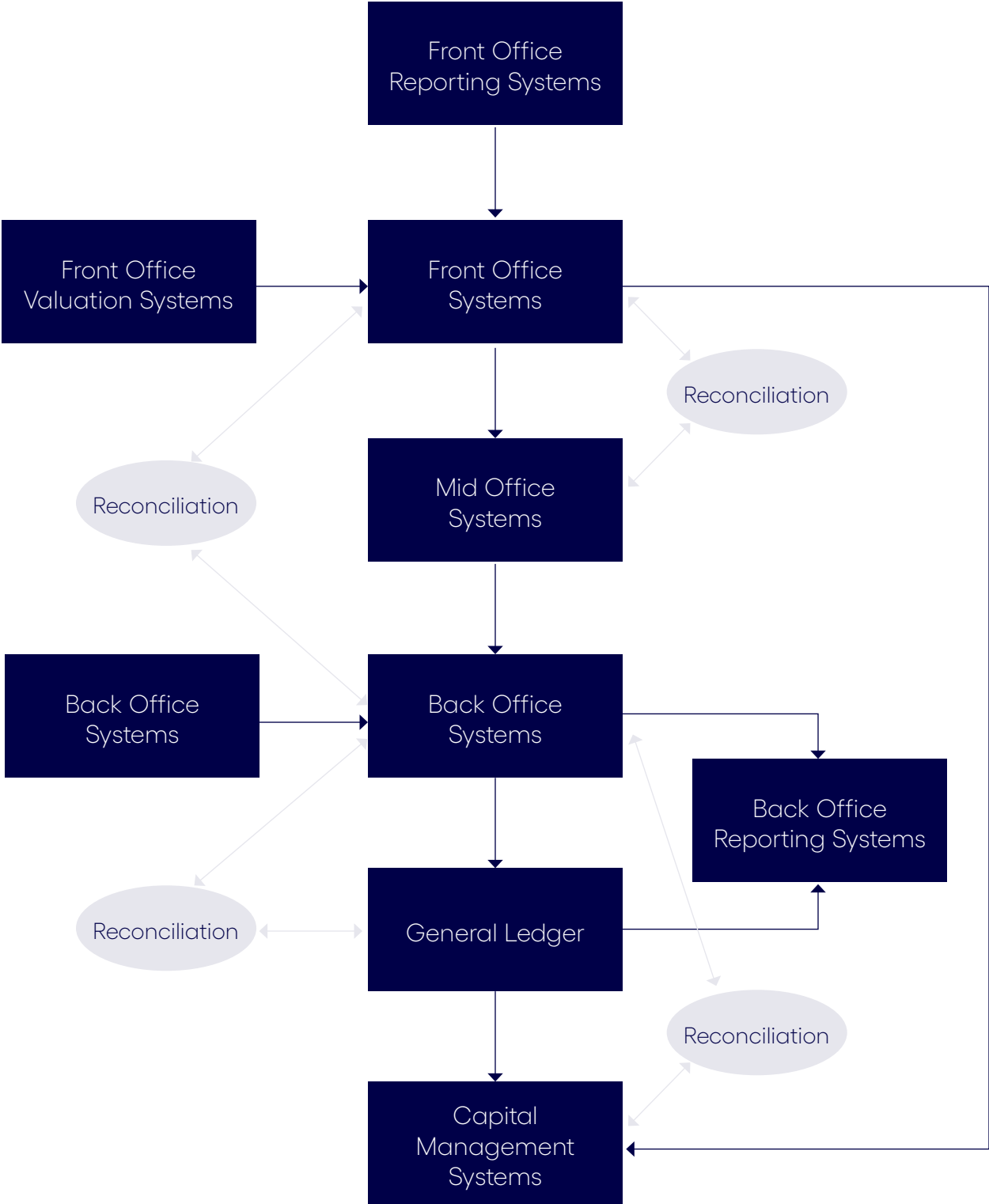
Nidhi Palsule
nidhi.palsule@cognizant.com

Consultant
Bank Recovery
and Resolution Program



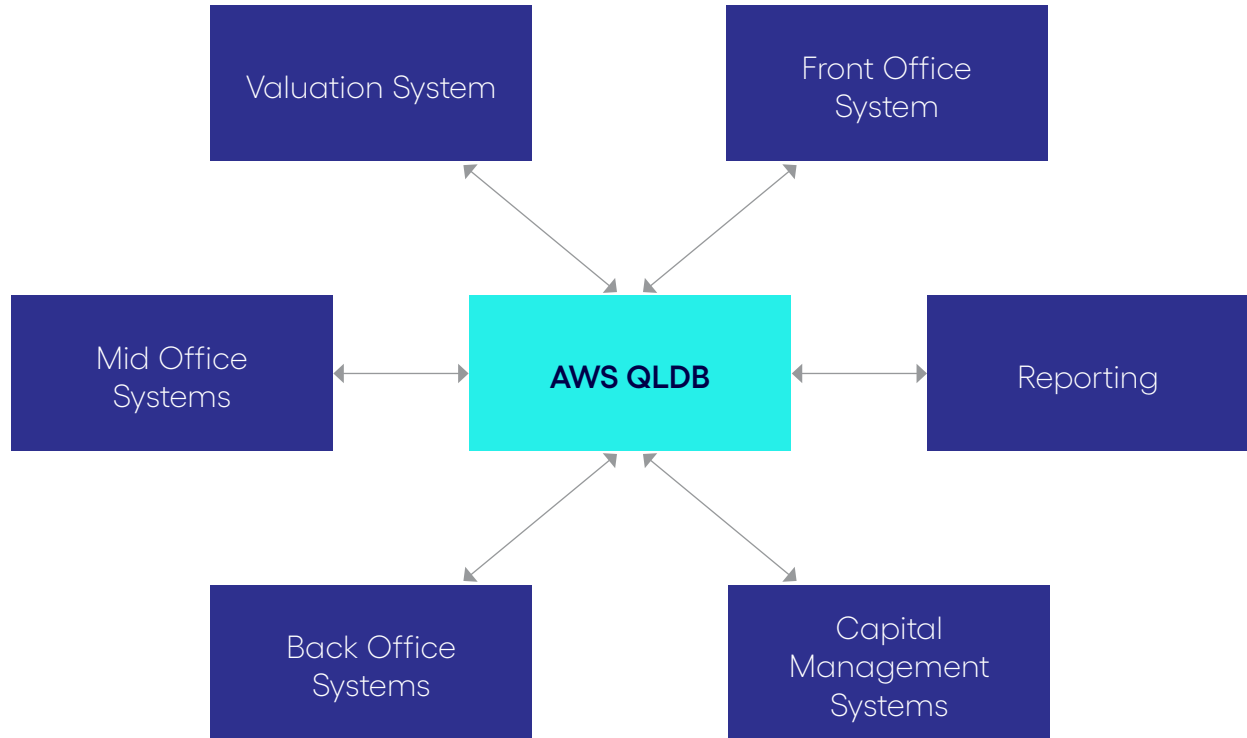
Current Architecture

- Complex
- Monolithic
- Tightly coupled
- Reconciliation required at every step
- Different valuations leads to breaks
- Data loss between systems



Future Architecture with QLDB (Simplistic view)

- Fully decoupled applications
- Real-time processing
- No reconciliation required
- No breaks



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World Headquarters

300 Frank W. Burr Blvd.
Suite 36, 6th Floor
Teaneck, NJ 07666 USA
Phone: +1 201 801 0233
Fax: +1 201 801 0243
Toll Free: +1 888 937 3277

European Headquarters

1 Kingdom Street
Paddington Central
London W2 6BD England
Phone: +44 (0) 20 7297 7600
Fax: +44 (0) 20 7121 0102

India Operations Headquarters

#5/535 Old Mahabalipuram Road
Okkiyam Pettai, Thorajipakkam
Chennai, 600 096 India
Phone: +91 (0) 44 4209 6000
Fax: +91 (0) 44 4209 6060

APAC Headquarters

1 Fusionopolis Link, Level 5
NEXUS@One-North, North
Tower
Singapore 138542
Phone: +65 6812 4000