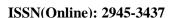
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# Transforming Commercial Banking Through Advanced Account Lookup and Customer Information File Management

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Abstract: Commercial banks face enormous challenges in providing unified customer experiences while ensuring regulatory compliance and operational effectiveness using classic Customer Information File management systems. Legacy architecture delivers huge operational drag by partitioning customer data silos that reside across multiple product lines, leading to delayed account verification processes, duplicate customers, compliance holes, and limited visibility into holistic client relationships. Modern CIF platforms use up-to-date integration technologies and service-oriented architectures to develop integrated customer data repositories that support real-time synchronization features and end-to-end consolidation of data through all banking points of contact. New account lookup systems utilize advanced search methodologies involving fuzzy logic matching, address validation, and relationship mapping to deliver complete account discovery functionality with geographic distribution that delivers low-latency responses. Extended operational advantages comprise streamlined customer acquisition using artificial intelligence-powered automation, end-to-end client relationship management using integrated dashboards, and advanced transaction history analysis, facilitating intelligent credit decisions and risk evaluation. Opportunities for revenue generation arise through API-powered service packages that charge for account verification functionality, premium analytical services offering actionable customer insights in subscription-based models, and cross-selling optimization initiatives using integrated customer views to determine untapped needs in product categories. The evolution of CIF systems from siloed data repositories to combined intelligent platforms is a paradigm change in customer relationship management and business development strategies.

**Keywords:** Customer Information File Management, Account Lookup Systems, Real-Time Integration of Data, API Monetization, Optimization of Cross-Selling, Regulatory Compliance.

#### INTRODUCTION

Commercial banking agencies are under growing stress to offer continuity of consumer enjoyment while ensuring operational performance and regulatory compliance. Underlying challenges is the key role of account lookup and Customer Information File (CIF) management. Legacy banking structures have traditionally functioned with dispersed customer repositories, which produce great operational inefficiencies that have a direct effect on customer satisfaction and institutional performance. Studies prove that digital transformation programs in retail banking settings indicate serious gaps in customer data convergence, where banks generally face heterogeneous legacy environments with no central view of the customers (Alonge, E. O. et al., 2021). Such fragmented systems pose great hurdles to providing personalized banking, as customer information is scattered across many platforms without the possibility of centralized coordination and real-time synchronization.

The fragmentation is exhibited in backlogged account verification procedures that drive customer service resolution times measurably longer than industry standards, redundant customer records that undermine data integrity and regulatory compliance initiatives, regulatory gaps that risk institutions under regulatory examination

and possible penalties, and greatly restricted visibility into unified client relationships that measurably diminish cross-selling effectiveness and revenue maximization initiatives. Research on enterprise system implementations within banking contexts shows that organizations leveraging integrated customer information platforms realize considerably enhanced operational performance than institutions holding siloed data architectures (Mathrani, S. et al., 2013). Challenges of are especially transformation severe commercial banking segments with intricate client relationships cutting across product groups and geographic regions, for which complex data integration capabilities are needed to preserve current and accurate customer profiles.

The evolution of CIF systems from discrete data repositories into cohesive, intelligent platforms is a core change in financial institution customer relationships and business development management. Research on digital transformation in banking proves that institutions adopting extensive customer data integration approaches achieve customer satisfaction quantifiable metrics improvements, operational efficiency indicator improvements, and top-line growth capabilities through improved cross-selling and relationship management processes (Alonge, E. O. et al., 2021). Modern CIF implementations leverage advanced data management technologies to consolidate customer information across all banking touchpoints, creating unified customer views that enable relationship managers to deliver more personalized services and identify previously invisible business opportunities.

In addition, research on enterprise systems projects companies with successful reveals that implementation of digital business strategies using integrated platforms exhibit better decisionmaking, improved operational responsiveness, and better competitive positioning in dynamically changing financial services industries (Mathrani, S. et al., 2013). Banks undertaking holistic CIF modernization programs experience significant customer onboarding effectiveness, data quality levels, and cost optimization in operations, while at the same time improving their capacity to address ever more demanding regulatory experience requirements and customer expectations in highly digital banking landscapes.

# LEGACY CHALLENGES IN CIF ARCHITECTURE

# Data Fragmentation and Operational Inefficiencies

Legacy CIF systems are plagued with inherent architectural barriers that hinder operational excellence, with studies on enterprise integration within financial technology environments showing that mainstream banking institutions have very daunting challenges in ensuring unbridled data flow throughout heterogeneous system topographies. Research looking at enterprise integration frameworks in financial services environments, in particular, finds that legacy architectures pose substantial obstacles operational effectiveness, whereby customer data tends to be stored in isolated systems that do not have standard integration procedures and real-time synchronization (Sayed, N. H. W. M. 2025). Fragmentation specifically affects commercial banking functions where deposit information resides in distinct stores from lending portfolios, payment processing histories, and trade finance transaction history, resulting in high operational friction that necessitates extensive manual interaction to gain end-to-end customer visibility.

Architectural fragmentation leads to serious operational issues that result in time-consuming account verification processes involving multiple system interrogations and manual validation

processes. Research establishes that enterprise integration shortfalls in financial technology deployments lead to significant productivity losses, whereby relationship managers have to alternate between various system interfaces to assemble integrated customer profiles at service interaction times (Sayed, N. H. W. M. 2025). The need for manual data aggregation creates significant delays in customer service delivery timelines while also enhancing the likelihood of data disparities and process errors that undermine customer satisfaction and compliance goals. These inefficiencies become most critical in sophisticated commercial banking relationships where clients have multiple product relationships in various business units and geographic markets.

### **Compliance and Risk Management Gaps**

The siloed nature of legacy CIF systems introduces significant compliance weaknesses affecting institutional risk management efficiency and regulatory compliance abilities. Studies analyzing risk management framework optimization in banking institutions prove that dispersed customer data architectures have a detrimental effect on institutions' capacity to have complete visibility into customer relationships and transaction behavior across every touchpoint in banks (Oyeniyi, L. D. et al., 2021). Anti-money systems laundering monitoring weaken significantly when transaction information is not available for holistic analysis within customer relationships, leaving their suspicious activity detection functions incomplete and potentially allowing risky transactions to pass without proper scrutiny or regulatory reporting.

Know Your Customer procedures are hampered by visibility to incomplete data in legacy CIF frameworks, in which key risk indicators across cross-product relationships can go unseen by compliance staff performing enhanced due diligence on updated assessments. Research on bank risk management optimization indicates that banks that use fragmented customer information systems have far greater compliance-related issues than those that use integrated customer data management platforms (Oyeniyi, L. D. et al., 2021). The lack of visibility especially affects risk assessment accuracy in complex commercial relationships where customers hold varied product portfolios across many business segments. Regulatory reporting accuracy substantially decreases whenever customer information is not consistent across various system platforms, making it very challenging for institutions to comply with increasingly stringent regulatory reporting requirements while sustaining operational efficiency standards, facilitating profitability goals in competitive banking markets.

**Table 1.** Challenges and Limitations in Legacy CIF Architectures (Sayed, N. H. W. M. 2025; Oyeniyi, L. D. *et al.*, 2021)

| Challenge        | Impact Area      | Primary                      | Operational                         |  |
|------------------|------------------|------------------------------|-------------------------------------|--|
| Category         |                  | Issues                       | Consequences                        |  |
| Data             | System           | Disparate customer data      | Manual data aggregation             |  |
| Fragmentation    | Architecture     | repositories across multiple | requirements for comprehensive      |  |
|                  |                  | systems                      | customer assessments                |  |
| Integration      | Customer Service | Separate storage of deposit, | Extended resolution times and       |  |
| Deficiencies     | Operations       | lending, payment, and trade  | increased probability of processing |  |
|                  |                  | finance records              | errors                              |  |
| Compliance       | Risk             | Fragmented transaction       | Incomplete suspicious activity      |  |
| Vulnerabilities  | Management       | monitoring across customer   | detection and regulatory reporting  |  |
|                  |                  | touchpoints                  | challenges                          |  |
| Data Consistency | Regulatory       | Inconsistent customer        | Potential compliance violations     |  |
| Issues           | Reporting        | information across different | and regulatory scrutiny exposure    |  |
|                  |                  | platforms                    |                                     |  |

# MODERN CIF SOLUTIONS: TECHNICAL ARCHITECTURE AND CAPABILITIES

# **Real-Time Integration and Data Consolidation**

Modern CIF platforms take advantage of high-end integration technologies to build consolidated customer data repositories, which revolutionize the way financial institutions handle customer data in complicated organizational environments. Studies analyzing service-oriented architecture implementations prove that current integration frameworks facilitate advanced data management features with layered architectural designs that allow real-time data synchronization and full system interoperability (Chamari, L. et al., 2023). Such higher-order platforms apply service-oriented design principles, allowing the data to flow freely among disparate banking systems, forming cohesive customer information stores that do away with conventional data silos but ensure data consistency and integrity in all the organizational touchpoints.

Master Data Management architectures deployed on these modern platforms provide end-to-end consistency and accuracy in the data across every channel of customer interaction, with service-oriented architectures being the technological underpinnings for multi-domain as well as cross-geography data integration strategies. Use of end-to-end service-oriented architectures facilitates unprecedented consolidation of data, whereby updates to customer data are disseminated immediately throughout all interconnected systems

via standardized service interfaces and automated data synchronization schemes (Chamari, L. et al., 2023). Real-time data synchronizations are a core breakthrough over traditional batch processing systems, providing instant updates to all integrated banking applications whenever customer data changes, maintaining consistency and accuracy in the entire banking infrastructure, and supporting domestic and international banking operations with common data management standards.

# **Improved Account Lookup Mechanisms**

Advanced account lookup systems in the modern era are based on advanced search and validation algorithms that far exceed the mere matching of account numbers, including cutting-edge machine learning technologies that facilitate massive customer discovery intricate banking in relationships. Studies human-augmented of machine learning methods show that current-day lookup facilities can take advantage of interactive learning paradigms in which the banking systems progressively enhance their search precision through the integration of human feedback and the self-improvement of algorithms (Gil, Y. et al., 2019). These smart systems have fuzzy logic name-matching algorithms for customer name differences, state-of-the-art address validation procedures that support international standard formats, and evolved relationship mapping capabilities that are able to recognize associated customer entities in multi-jurisdictional banking operations with high rates of precision.

The application of machine learning principles based on human guidance in account lookup systems provides ongoing optimization of search precision and validation efficacy, whereby banking staff can provide feedback to improve system performance over time through iterative learning processes. Geographic placement of lookup services provides low-latency response capability no matter where customer accounts are stored within global banking networks, with current architectures allowing for concurrent processing of

multiple lookup requests while preserving uniform response times and accuracy levels (Gil, Y. et al., 2019). These advanced validation processes integrate several verification layers, such as account status verification, beneficiary name matching, customer relationship checks, and real-time balance availability checks that together offer full account discovery functionalities enabling routine banking activities as well as intricate crossborder transaction processing needs in contemporary global banking settings.

**Table 2.** Technical Architecture Components of Modern CIF Solutions (Chamari, L. *et al.*, 2023; Gil, Y. *et al.*, 2019)

| Architecture     | Technology          | Core Capabilities        | Implementation                     |
|------------------|---------------------|--------------------------|------------------------------------|
| Component        | Framework           |                          | Benefits                           |
| Service-Oriented | Master Data         | Real-time data           | Unified customer data              |
| Integration      | Management          | synchronization across   | repositories with instant update   |
|                  | Frameworks          | banking networks         | propagation                        |
| Advanced Search  | Fuzzy Logic         | Customer name variations | Comprehensive account              |
| Algorithms       | Matching Systems    | and address validation   | discovery across complex           |
|                  |                     | protocols                | banking relationships              |
| Geographic       | Distributed Lookup  | Low-latency response     | Consistent service availability    |
| Distribution     | Architecture        | capabilities for global  | with concurrent request            |
|                  |                     | operations               | processing                         |
| Human-Guided     | Interactive Machine | Continuous improvement   | Enhanced search accuracy and       |
| Learning         | Learning            | through human feedback   | validation effectiveness over time |
|                  |                     | integration              |                                    |

# OPERATIONAL ADVANTAGES AND EFFICIENCY GAINS

# **Efficient Customer Onboarding**

Centralised CIF systems revolutionarily speed up customer onboarding procedures by allowing instant access to historic customer relationships and existing data, radically changing financial institutions' methods of handling new client acquisition and account opening procedures. Studies artificial intelligence-driven on digitalisation of automated customer onboarding prove that modern banking institutions are able to make significant gains in onboarding effectiveness using intelligent automation and combined customer data management platforms that simplify old-fashioned manual procedures (Thokal, V., & Patil, P. R. 2024). New account opening processes are greatly aided by pre-populated customer information functionalities. where artificial intelligence can fetch, authenticate, and fill customer information fields automatically from inherent institutional databases, minimizing manual data entry needs while ensuring high accuracy levels and regulatory requirements throughout the onboarding process.

Improved Know Your Customer and Anti-Money Laundering screening functionality utilizes end-toend customer profiles to better detect potential risks through conjoined data analysis that scrutinizes customer relationships among all products and services. banking intelligence-based onboarding processes make it possible to use more advanced risk assessment procedures that can execute customer due diligence obligations with higher precision and lower false positive episodes that conventionally impede account activation processes (Thokal, V., & Patil, P. R. 2024). Digital transformation projects in customer onboarding show that financial institutions rolling out end-to-end CIF integration with artificial intelligence functionality result in considerable increases in processing efficiency, regulatory compliance adherence, and delivery of customer experience, with quantifiable decreases in operational expenses and increased ability to enable competitive positioning in shifting financial services markets through faster time-tomarket for new banking products and services.

#### **Improved Client Relationship Management**

Relationship managers have unprecedented visibility into entire customer portfolios through

that integrated CIF dashboards deliver comprehensive real-time access to customer information across all banking products and services, across multiple business segments and geographic jurisdictions. Studies analyzing cloudbased Customer Relationship Management systems illustrate that the integration of artificial intelligence into holistic customer information platforms supports advanced analytical abilities to transform customer engagement strategies in finance environments by predictive modeling, automation in generating insights, individualized service delivery optimization (Egbuhuzor, N. S. et al., 2021). This integrated perspective facilitates more effective credit decision-making operations by means of holistic customer relationship analysis, including multidimensional behavioral patterns, improved risk assessment functions utilizing full transaction history from all product classes, and systematic cross-selling opportunity identification, optimizing revenue generation strategies through data-based relationship management practices.

The history of transactions gets much more sophisticated when payment habits, lending behavior, and deposit activity are considered in the aggregate under integrated customer information systems that allow for advanced analytics and artificial intelligence solutions. Cloud-based CRM solutions with artificial intelligence functionalities allow relationship managers to detect sophisticated customer behavior patterns and budding financial requirements that would go undetected under disjointed data schemas, making customer tastes and demands more understandable, that are in favor of proactive relationship management initiatives (Egbuhuzor, N. S. et al., 2021). The incorporation of artificial intelligence into advanced customer relationship management systems allows ongoing enhancement relationship management effectiveness through machine-enabled pattern recognition, predictive modeling of customer behavior, and customized recommendation functionality improved customer satisfaction measures and banking institution profitability through resource allocation optimization and focused service delivery strategies.

**Table 3.** Operational Improvements and Efficiency Gains (Thokal, V., & Patil, P. R. 2024; Egbuhuzor, N. S. *et al.*, 2021)

| Operational     | Enhancement             | Key Improvements               | Strategic                         |
|-----------------|-------------------------|--------------------------------|-----------------------------------|
| Domain          | Category                |                                | Advantages                        |
| Customer        | Artificial Intelligence | Automated data retrieval and   | Accelerated account opening with  |
| Onboarding      | Integration             | validation processes           | reduced manual intervention       |
| Risk Assessment | Enhanced KYC and        | Comprehensive customer         | Improved risk identification with |
|                 | AML Screening           | profile analysis capabilities  | reduced false positive incidents  |
| Relationship    | Unified CIF             | Complete customer portfolio    | Informed credit decisions and     |
| Management      | Dashboards              | visibility across all products | systematic cross-selling          |
|                 |                         |                                | opportunity identification        |
| Analytics       | Cloud-Based CRM         | Sophisticated customer         | Predictive modeling and           |
| Integration     | Systems                 | behavior pattern recognition   | personalized service delivery     |
| _               |                         |                                | optimization                      |

# REVENUE GENERATION AND MONETIZATION STRATEGIES

### **API-Driven Service Offerings**

New CIF platforms facilitate banks to capitalize on their account verification abilities via Application Programming Interface services to corporate clients and fintech partners, generating significant new revenue streams through digital delivery model-based services using existing banking infrastructure and data assets. Studies investigating business models and sources of revenue for non-financial corporations illustrate that modern organizations across industries are constantly looking into diversified sources of revenue through

strategic alliances and technology-supported service initiatives that go beyond core business operations (Clement, M. et al., 2025). Real-time beneficiary account verification services minimize corporate clients' payment failures and fraud exposure while producing per-transaction income for banking institutions, with financial technology integration allowing banks to provide advanced verification services that facilitate complex multiparty payment processing and cross-border transaction facilitation demands.

These API-based services go far beyond rudimentary account verification functionality to involve detailed account status confirmation

procedures, advanced beneficiary name match algorithms, and payment routing optimization services that optimize the overall value proposition for corporate clients as well as for fintech partners. The use of strong API frameworks allows banks to realize their rich customer information assets to develop scalable service products that are able to respond to varied client needs while keeping security, compliance, and performance requirements intact (Clement, M. et al., 2025). Financial institutions that adopt end-to-end API monetization strategies are able to build viable revenue models leveraging their current data infrastructure and regulatory compliance, driving competitive differentiation through niche service offerings that solve particular market needs while driving incremental revenue complementing standard banking services and products.

#### **Premium Analytics and Insights Services**

Advanced CIF systems produce valuable customer insights that can be distilled into premium service offerings that create new revenue streams while building customer relationships through greater value delivery and strategic business intelligence capabilities. Studies that revolve around datadriven approaches in financial services prove that end-to-end customer experience management with the help of advanced analytics has the capability to transform the way financial institutions provide value to their customers using refined data analysis, predictive modeling, and recommendations that cater to individual customer requirements and business goals (Famoti, O. et al., 2025). Analytics dashboards give corporate customers greater visibility into their multi-entity account structures, in-depth cash flow pattern analysis, and relationship analytics that allow for more timely financial management and strategic planning across complex organizational sets of accounts.

Subscription models for these high-end insights generate recurring revenue streams that bring in predictable income while deepening customer relationships through value-added services that facilitate client business goals and competitive advantage. The application of data-led customer experience management practices allows banks to deliver advanced business intelligence offerings that can detect nascent trends, forecast customer behavior patterns, and offer actionable insights that assist corporate customers in streamlining their financial functions and strategic campaigns (Famoti, O. et al., 2025). These high-end analytics

solutions are significant revenue streams for banks that are successful at using their rich customer data assets to develop insightful business intelligence offerings, where subscription-based pricing models often have higher profit margins than conventional transactional banking products, and at the same time foster customer loyalty through higher engagement and strategic value proposition delivery that helps in long-term customer relationships and business growth initiatives.

# **Cross-Sell and Upsell Optimization**

Integrated customer views support advanced crossselling algorithms that recognize untapped customer needs across a range of product categories through in-depth analysis of customer behavior patterns, financial activity, relationship dynamics that would be unknown under fragmented data structures. The inclusion of data-driven customer experience management strategies within umbrella customer information platforms allows banks to create strongly targeted cross-selling strategies that greatly enhance conversion rates and wallet share growth via personalized product suggestions and tactically aligned service offerings targeted specifically at individual customer profiles and business needs (Famoti, O. et al., 2025). Prospects for lending become clearer when payment tendencies and deposit behaviors are viewed in the totality of their relationship, allowing relationship managers to spot prospective credit requirements and tailor lending solutions that are attuned to individual customer monetary conditions and growth patterns.

Trade finance solutions may be addressed more precisely when global payment flows signal import-export transactions, with detailed transaction analysis uncovering customer business trends that reflect particular banking service requirements and growth possibilities throughout worldwide markets. This product recommendation, based on data, optimizes conversion rates and wallet share growth through targeted hits on valuerelevant products and services to customers most likely to need specified banking products based on proven financial habits and business pursuits (Famoti, O. et al., 2025). Implementation of advanced customer analytics allows banks to realize significant enhancements in cross-selling efficiency, with organizations employing allencompassing data-driven customer experience management approaches reporting improved customer satisfaction and revenue per customer performance levels that significantly surpass industry averages in generating sustainable competitive edges through more timely and

relevant product offerings.

**Table 4.** Revenue Generation Models and Monetization Strategies (Clement, M. *et al.*, 2025; Famoti, O. *et al.*, 2025)

| Revenue       | Service Offering Type  | Value Proposition          | <b>Business Model Structure</b>  |
|---------------|------------------------|----------------------------|----------------------------------|
| Category      |                        |                            |                                  |
| API-Driven    | Real-Time Account      | Reduced payment failures   | Transaction-based pricing with   |
| Services      | Validation             | and fraud risk mitigation  | scalable volume opportunities    |
| Premium       | Business Intelligence  | Enhanced visibility into   | Subscription-based recurring     |
| Analytics     | Dashboards             | multi-entity account       | revenue with high profit margins |
|               |                        | structures                 |                                  |
| Cross-Selling | Data-Driven Product    | Targeted lending and       | Conversion rate improvements     |
| Optimization  | Recommendations        | trade finance product      | through personalized customer    |
|               |                        | offerings                  | insights                         |
| Value-Added   | Comprehensive          | Strategic business         | Premium service tiers with       |
| Services      | Relationship Analytics | intelligence for corporate | enhanced customer engagement     |
|               |                        | clients                    | models                           |

#### CONCLUSION

The development of Customer Information File management systems is a revolutionary paradigm shift that significantly redefines the methods by which financial institutions tackle customer relationship management, operational effectiveness, and generate revenue within modern banking settings. Legacy siloed architectures that cause operational friction and compliance risk are giving way to advanced integrated platforms that apply artificial intelligence, service-oriented architectures, and real-time data synchronization features to provide superior customer experiences while driving sustainable competitive differentiators. Execution of sophisticated CIF solutions meets key operational issues such as fragmentation of data, inefficiencies in manual processing, and regulatory compliance loopholes effective integration strategies that combine customer data from all touchpoints of the bank. Cutting-edge platforms show magnificent talents in automating customer onboarding tactics, enhancing the effectiveness of courting management, and facilitating superior pass-selling strategies that drive significant development in conversion costs and wallet share increase. Past technique efficiencies, cutting-edge CIF systems generate sizable sales streams via API-based provider monetization, analytics solutions, and information insights that may be bundled into high-priced commercial enterprise intelligence merchandise for corporate clients. The strategic fee of CIF modernization goes a long way beyond manner enhancement to encompass enterprise transformation at its core that prepares economic establishments for longterm boom and competitive benefit in banking markets. The present process is an essential exchange. Those banks that might be capable of executing thorough CIF transformation programs will realize higher operations, advanced regulatory compliance, more desirable consumer delight, and assorted incomes that assure long-term sustainability and market leadership in more and more aggressive financial offerings markets.

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