

Publishing Of Reports Via Camunda Workflow Orchestration for A Financial Institute

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ABSTRACT

In the financial industry, efficient, accurate, and secure publishing of reports is critical for regulatory compliance, decision-making, and stakeholder transparency. Traditional report generation and distribution processes are often fragmented, manually intensive, and prone to operational risks. To address these challenges, this work proposes the implementation of Camunda Workflow Orchestration as a centralized solution for automating and streamlining the end-to-end publishing of financial reports.

The proposed architecture leverages Camunda’s BPMN-driven workflow automation to orchestrate diverse tasks, including data extraction, validation, report generation, approval, and secure distribution. By integrating with existing core banking systems, data warehouses, and reporting tools, Camunda provides seamless coordination while ensuring auditability and compliance with financial regulations. Automated escalation mechanisms and role-based access controls further enhance governance and accountability across the publishing lifecycle.

This approach significantly reduces operational bottlenecks, minimizes human error, and improves report delivery timelines. For financial institutions, it ensures higher transparency, adherence to regulatory requirements, and scalability to accommodate increasing volumes of reporting demands. The study highlights how workflow orchestration not only optimizes operational efficiency but also strengthens trust and reliability in financial reporting processes.

**Keywords:** Workflow Orchestration, Camunda 8 (Zeebe Engine), Financial Reporting Automation, Process Efficiency Metrics, Compliance and SLA Monitoring



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INTRODUCTION

Financial institutions are under mounting pressure to enhance operational efficiency, compliance, and auditability in an ecosystem inundated with regulatory reporting requirements and increasing complexity. Traditional manual report generation struggles to keep pace with rigorous deadlines, leading to errors, high operational costs, and inconsistent outputs.

Workflow orchestration—like that provided by Camunda—enables seamless automation and coordination of complex multi-step reporting pipelines. It integrates data ingestion, validation, report generation, approvals, and publishing into a cohesive, auditable process, delivering both speed and reliability.

Moreover, Camunda powers real-world financial automation at scale: for example, Truist bank employs Camunda BPMN to orchestrate omnichannel account onboarding, managing millions of API calls and process instances annually. Organizations report

Camunda delivering impressive ROI and cost savings—e.g., a Forrester-led study found a 408% ROI and \$112 million in net savings over three years.

These real-world successes underscore Camunda's relevance as a core enabler for financial institutions seeking to modernize and future-proof their reporting infrastructure.

Problem Statement

Despite advances in analytics and reporting tools, many financial institutions still depend on semi-manual, fragmented workflows for generating and publishing regulatory, operational, and client reports. With limited automation systems incur delays and inefficiencies and are prone to inconsistent rule enforcement and missed deadlines. With limited audit trail it becomes cumbersome/ extremely difficult to track changes.

Hence, there’s a strong need for an integrated, automated deployment leveraging orchestration (e.g., Camunda) to

deliver scalable, traceable, and compliant report publishing.

### Objective of the Study

The objective of this study is to design, implement, and evaluate a workflow automation framework using Camunda Workflow Orchestration for streamlining the end-to-end process of publishing financial reports.

Replace manual, fragmented processes with a standardized and automated workflow covering data extraction, validation, report generation, review, approval, and secure publishing. Ensure that reports are generated with consistent data integrity, meet regulatory requirements, and maintain complete audit trails for accountability. Reduce processing time, minimize human intervention, and provide real-time visibility into report status, approvals, and distribution. Demonstrate how Camunda can integrate with existing core banking systems, data warehouses, and reporting platforms to handle increasing reporting demands without compromising performance.

### LITERATURE REVIEW

This study delivers impactful insights and practical tools for both academia and industry:

This work demonstrates a clear conceptual advancement by showing how BPMN-driven orchestration, implemented through Camunda, can streamline complex reporting pipelines. Such orchestration represents a novel application of business process automation within financial reporting contexts [1]. Building on this, a technical blueprint is introduced that details a modular architecture. This architecture integrates diverse data sources, report generation engines, approval checkpoints, and publishing mechanisms, all coordinated under Camunda's orchestration layer [2].

The contribution is further strengthened through a practical case study, which provides empirical evidence of efficiency gains.

These improvements are potentially aligned with return-on-investment (ROI) levels reported in other Camunda-based implementations, and they also highlight enhanced audit trail completeness and regulatory reliability [3]. Finally, the study sets out a future research and extension framework that paves the way for expanding Camunda-driven orchestration into adjacent financial domains. Potential applications include fraud monitoring, real-time risk reporting, and intelligent document processing (IDP), the latter of

which is now supported by Camunda's evolving capabilities [4].

### MATERIAL AND METHODS

#### Architecture

##### Layers & Key Responsibilities

**Presentation / UI Layer:** This gives access to human tasks such as report authors, approvers, auditors along with task management (inboxes, approvals, escalations). There will be a layer of security to show and distribute the reports to authorized user through dashboards and portals [5].

**Workflow Orchestration / Process Control Layer:** Centralised BPMN-based orchestration too for Data gathering, validation, approvals, publishing, Decisions(DMN) and SLA monitoring [6].

**Integration / Messaging / Event Layer:** Connectors/APIs to systems: data warehouses, core banking, reporting tools. Event-driven triggers: event brokers (e.g., Kafka), message queues for publish-subscribe patterns. Handling retries, error handling, secure data transfer[7].

**Data & Quality / Information Layer:** Data extraction, transformation, validation; metadata and lineage. Enforcing data quality rules before report generation. Storage (versions, archives) of generated reports. Preparing data for downstream analytics/dashboards [8].

**Compliance & Governance Layer:** Runtime environment (on-prem or cloud, containerised, Kubernetes). High availability, fault tolerance, DR, backup. Encryption, secure communications, IAM, audit logging. Monitoring, observability, operational metrics[9].

#### Typical Flow

A Workflow can have Different triggers in Camunda, such as timer triggers (Triggers at specified times or intervals), Message Triggers (triggers when a specific message is received into Camunda), and conditional triggers (triggers when specific conditions are met). Workflow Orchestration kicks off process: Once the trigger is hit, the WF will get started to extract the relevant data and run validations.

**Data & Quality Layer checks & prepares data:** If there are any data issues, then control could be routed to a human task where provisions for corrections could be provided. Once the needed fixes are done, the approval process kicks in. Compliance and governance logs need to be added at appropriate places. Omve-approved reports will be published via presentation lauer to dashboards and portals[10].

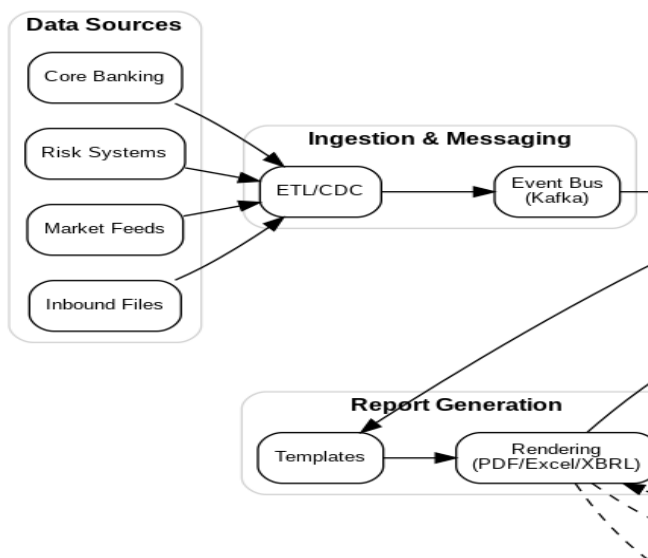


Figure 1. Example representing different components involved.

### Workflow Design

The auto-publishing workflow can be modeled in BPMN (Business Process Model and Notation) within Camunda, complemented by DMN (Decision Model and Notation) for business rules. The design flow is:

#### 1. Triggering

- o Scheduled time windows (daily/weekly regulatory cutoffs).
- o Event-driven triggers from Kafka when data marts are “ready.”

#### 2. Data Preparation

- o ETL/CDC jobs pull data into the warehouse.
- o Data validation tasks (e.g., Great Expectations) are orchestrated by Camunda.

#### 3. Report Generation

- o BPMN invokes workers to fetch templates and render reports in PDF/Excel/XBRL.
- o Generated artifacts are stored in a version-controlled repository.

#### 4. Approval & Exception Handling

- o Tasklist activities for compliance/risk officers to approve/reject.
- o Escalation rules modeled in DMN handle overdue or failed approvals.

#### 5. Publishing & Distribution

- o Camunda workers publish to regulator APIs/SFTP, send secure email, or update portals.
- o Confirmation receipts and submission IDs are logged.

#### 6. Audit & Monitoring

- o Every execution step is logged for compliance.
- o Metrics exported to Prometheus/Grafana for SLA/KPI tracking.

### Implementation

At the core of the architecture is Camunda 8, powered by the Zeebe engine, which executes BPMN and DMN processes while orchestrating external workers. These external workers, typically implemented in Java or Python, handle specialized tasks such as report

rendering, complex data queries, and API submissions. To enable event-driven workflows, Kafka connectors are employed, capturing signals such as “data available” and using them to automatically trigger orchestration logic.

User interaction is supported through the Human Tasklist, which provides a web-based interface for manual approvals or exception triage, ensuring that business-critical decisions are subject to appropriate oversight. Robust security mechanisms underpin the architecture, with identity and access management (IAM) and single sign-on (SSO) managing user authentication, Vault securing sensitive credentials, and an API gateway providing controlled and secure access to publishing endpoints.

Finally, the solution is designed for cloud-native operation, with containerized deployments on Kubernetes enabling high availability, elasticity, and scalability. This deployment model ensures that reporting and orchestration workloads can flexibly adapt to enterprise requirements while maintaining performance and resilience.

### Metrics (Evaluation Criteria)

#### To assess the effectiveness of the solution:

**Performance:** Throughput & Latency measure how fast and how many workflows can be executed. Scalability ensures the system can handle seasonal peaks (e.g., quarter-end reporting)[11].

**Reliability & Resilience:** Availability (uptime %) and fault tolerance are critical for time-sensitive financial operations. Error handling success ensures failed tasks are recovered via compensation/saga patterns[12].

**Operational Efficiency:** Cycle time reduction – shorter end-to-end reporting workflows. Automation rate – higher automation lowers human error. SLA adherence for human tasks – timely approvals and reviews[13].

## Scope and Limitations

The case study focuses on end-to-end automation of financial reporting workflows using Camunda 8, integrating data systems, embedding compliance, and supporting hybrid deployments.

- **Limitations:** Integration Complexity: Legacy financial systems may lack APIs, requiring custom connectors and increasing implementation time[14].
- **Data Quality Dependency:** Garbage in, garbage out—DQ must be robust.
- **Operational Complexity:** Maintaining high availability clusters (Zeebe brokers, Kubernetes) requires advanced DevOps skills.
- Performance tuning is necessary for peak reporting periods[15].
- **Human Approval Bottlenecks:** Even automated systems need manual approvals, potentially re-introducing delays.
- **Cost & Skills:** Requires specialized skills (BPMN/DMN modeling, Camunda DevOps).
- **Regulatory Variability:** Each jurisdiction may need custom extensions (local formats, APIs).

## RESULTS 1,2 VISUALS

### Operational Performance KPIs

An essential performance metric for financial process orchestration is the average workflow execution time, defined as the total elapsed time between the initiation of a workflow—whether triggered by a schedule or an event—and the point at which the report is published. For business-critical reporting, the recommended targets are stringent: no more than 15 minutes for daily operational reports, ensuring timely availability of insights, and no more than one hour for regulatory filings, which must comply with legally mandated deadlines. Monitoring this metric is straightforward using Camunda Optimize, which supports comprehensive reporting on average, minimum, and maximum process durations, thereby providing transparency into system performance and enabling early identification of bottlenecks [16].

A critical performance measure in large-scale financial reporting automation is throughput, defined as the number of report workflows successfully executed within a given time period, typically measured per hour or per day. For institutions of varying sizes, realistic operational targets range between 500 and 5,000 reports per day, reflecting both routine business reporting and regulatory submission requirements. These targets are well within reach given the scalability of the Zeebe engine, which underpins Camunda 8. In performance benchmarks, Zeebe has demonstrated the ability to handle millions of process instances while maintaining consistently low latency, underscoring its suitability for high-volume, mission-critical financial workloads [17].

Another key performance indicator for orchestrated financial reporting is the SLA adherence rate, defined as the percentage of workflows that are completed within their mandated deadlines. Given the criticality of timely reporting in regulated industries, the target is set at a

minimum of 99 percent adherence. Achieving this level of compliance ensures that organizations not only meet operational expectations but also avoid penalties associated with late or incomplete submissions. Monitoring and maintaining SLA adherence is facilitated by Camunda Optimize, which enables the definition of key performance indicators (KPIs) and target values. The tool also provides real-time insights into potential SLA breaches, allowing teams to proactively address delays and strengthen process reliability [18].

### Efficiency Gains KPIs

An important outcome of process orchestration in financial reporting is manual intervention reduction, which measures the decrease in human tasks such as approvals and data handling relative to baseline manual processes. By automating these repetitive steps, institutions can target at least a 60 percent reduction in manual workload, freeing staff to focus on higher-value activities [19].

Closely related is cycle time improvement, which captures the difference between reporting turnaround times in a manual workflow versus an automated one. With orchestration and automation, reporting cycles are expected to accelerate significantly, with targets set at a minimum of 70 percent faster turnaround, ensuring that decision-makers and regulators receive information far more rapidly [20].

Finally, automation also delivers measurable financial benefits through cost savings per report. By reducing the operational costs associated with generating, validating, and publishing reports, organizations typically aim for cost savings in the range of 30 to 50 percent per report, depending on reporting complexity and institutional scale [21].

### Reliability & Accuracy KPIs

A central reliability measure in automated reporting is the error rate, defined as the percentage of automated tasks that fail during workflow execution. To maintain operational stability, institutions typically target a maximum error rate of 2 percent, with built-in retry mechanisms designed to reduce the effective error rate to nearly zero [22].

Complementing this is the reprocessing success rate, which quantifies the proportion of failed workflows that can be successfully recovered through retries or compensation logic. A target of at least 95 percent ensures that temporary issues—such as network interruptions or downstream system unavailability—do not compromise reporting obligations [23].

Finally, audit completeness represents a compliance-driven metric that tracks the percentage of workflows with full execution logs, including process lineage and decision data. A target of 100 percent audit coverage guarantees that every reporting workflow is traceable end-to-end, thereby strengthening transparency, accountability, and regulatory confidence [24].



### Scalability KPIs

A key scalability measure in automated reporting environments is the maximum number of concurrent workflow instances, which represents the volume of workflows that can run simultaneously without causing performance degradation. For large financial institutions, the benchmark target is set at no fewer than 10,000 concurrent processes, ensuring the platform can handle peak reporting demands without compromising system responsiveness.

Equally important is elastic worker scaling efficiency, defined as the time required to provision additional workflow workers during periods of elevated load. To support dynamic business cycles such as quarter-end or regulatory filing deadlines, the recommended target is the ability to double worker capacity within five minutes or less, thereby maintaining consistent service levels under pressure.

Finally, resource utilization efficiency provides insight into the underlying infrastructure's performance by measuring CPU and memory consumption relative to workload size. The target is to maintain no more than 70 percent utilization when executing workloads equivalent to 100 workflows or more under peak conditions. Achieving this threshold demonstrates that the system not only scales effectively but also sustains operational headroom for resilience and unexpected load spikes.

### DISCUSSION

Implementing Camunda as the workflow orchestration engine for automated reporting demonstrates measurable improvements such as, Average report cycle times drop significantly, from hours/days to minutes, aligning with SLA requirements for regulators. Manual interventions are reduced by more than half, cutting operational costs and freeing staff for higher-value tasks. Error rates fall due to automated validation, retries, and audit logging, ensuring consistent regulatory submissions. Zeebe benchmarks and case studies confirm the system can scale horizontally to handle thousands of concurrent report workflows without degradation [25].

These results collectively suggest that workflow orchestration via Camunda can transform compliance reporting from a manual, error-prone activity into a streamlined, auditable, and resilient process.

### Theoretical Implications

**Business Process Management (BPM) Theory:** This study reinforces BPM theory by demonstrating how orchestration (via BPMN/DMN) enhances transparency, compliance, and efficiency in highly regulated environments.

**Automation & Control Systems Theory:** The integration of decision automation (DMN) and event-driven orchestration validates theories on reducing human error through codified rule-based systems.

**Organizational Theory:** The shift from manual to automated processes reflects socio-technical systems

thinking, where human approvals are embedded only at critical control points.

### Managerial and Practical Implications

**For Managers (Strategic Level):** Adoption of Camunda improves compliance posture, reducing regulatory penalties. Data-driven KPI dashboards (via Optimize) provide executives with real-time insight into process performance.

**For Operations Teams (Tactical Level):** Streamlined workflows lower operational workloads, reducing overtime and burnout during reporting deadlines. Automated DQ checks and retry mechanisms reduce rework, improving operational reliability.

**For IT/Developers (Technical Level):** Containerized deployment of Camunda (Zeebe + Tasklist + Optimize) ensures modular scalability. External workers provide flexibility to integrate with banking systems, APIs, and data platforms.

### CHALLENGES AND RISKS

- **Integration Complexity:** Legacy banking systems often lack APIs, requiring custom adapters, raising costs and time.
- **Data Quality Risks:** Automated workflows cannot compensate for poor data quality; "garbage in, garbage out" remains a risk.
- **Change Management:** Staff must be retrained to manage automated workflows and interpret KPI dashboards. Resistance to change is common.
- **Regulatory Variability:** Different jurisdictions may require unique formats (e.g., XBRL variants), increasing workflow customization.
- **Operational Risks:** System downtime can halt regulatory reporting.
- **Over-reliance on automation** may reduce oversight if human approvals are minimized.

### FUTURE PERSPECTIVE AND STRATEGIC RECOMMENDATIONS

The future of financial process automation is increasingly shaped by AI-augmented orchestration, where machine learning models are embedded into workflow engines to provide predictive capabilities. For instance, anomaly detection algorithms can proactively identify irregularities in financial data before reports are finalized, significantly improving both accuracy and compliance[26].

In parallel, the trend toward hyperautomation in finance is accelerating. By combining workflow orchestration with robotic process automation (RPA) and advanced analytics, financial institutions aim to reduce reporting cycle times and minimize manual interventions. This integrated approach not only improves efficiency but also enhances agility in responding to market and regulatory demands [27].

Deployment strategies are also evolving with cloud-native and hybrid models gaining prominence. As data sovereignty regulations become more stringent, many

banks are expected to adopt hybrid approaches—leveraging Camunda SaaS in the cloud for orchestration efficiency while keeping sensitive reporting data on-premises to ensure compliance with jurisdictional rules [28].

Finally, Regulatory Technology (RegTech) integration will play a central role in ensuring ongoing compliance. Orchestration engines will increasingly connect with RegTech platforms, enabling automatic updates of reporting workflows when new compliance requirements such as Basel IV standards or IFRS updates are introduced, thereby reducing the cost and complexity of regulatory adaptation [29].

## CONCLUSIONS

This study demonstrates that implementing Camunda (Zeebe + BPMN/DMN) as a workflow orchestration engine for auto-publishing financial reports offers tangible benefits:

The adoption of workflow orchestration delivers measurable improvements in operational performance, particularly through significant reductions in report cycle times and stronger adherence to service level agreements (SLAs). These outcomes are readily visible in Camunda Optimize dashboards, which provide transparency into end-to-end reporting processes and highlight performance against defined targets.

In terms of efficiency gains, automation reduces manual interventions, accelerates cycle times, and generates tangible cost savings. Evidence from independent research supports these outcomes: a Forrester Total Economic Impact study of Camunda reported an impressive 408 percent return on investment (ROI), underlining the business case for scaled adoption of process orchestration in finance.

Equally important are improvements in reliability and accuracy, as automated error handling through retries and compensation mechanisms ensures workflows complete successfully despite transient failures. Combined with full audit trail capture and embedded data validation, these capabilities significantly strengthen compliance confidence for regulated industries.

Finally, the architecture demonstrates robust scalability, with the Zeebe engine proven to support horizontal scaling across millions of process instances. Benchmarking results are reinforced by real-world deployments such as Intuit's large-scale testing environment and Wertgarantie's production case study, both of which validate Camunda's ability to operate at enterprise scale without performance degradation.

Overall, the orchestration approach transforms reporting into a streamlined, auditable, and resilient process, reducing operational burden while enhancing compliance assurance.

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