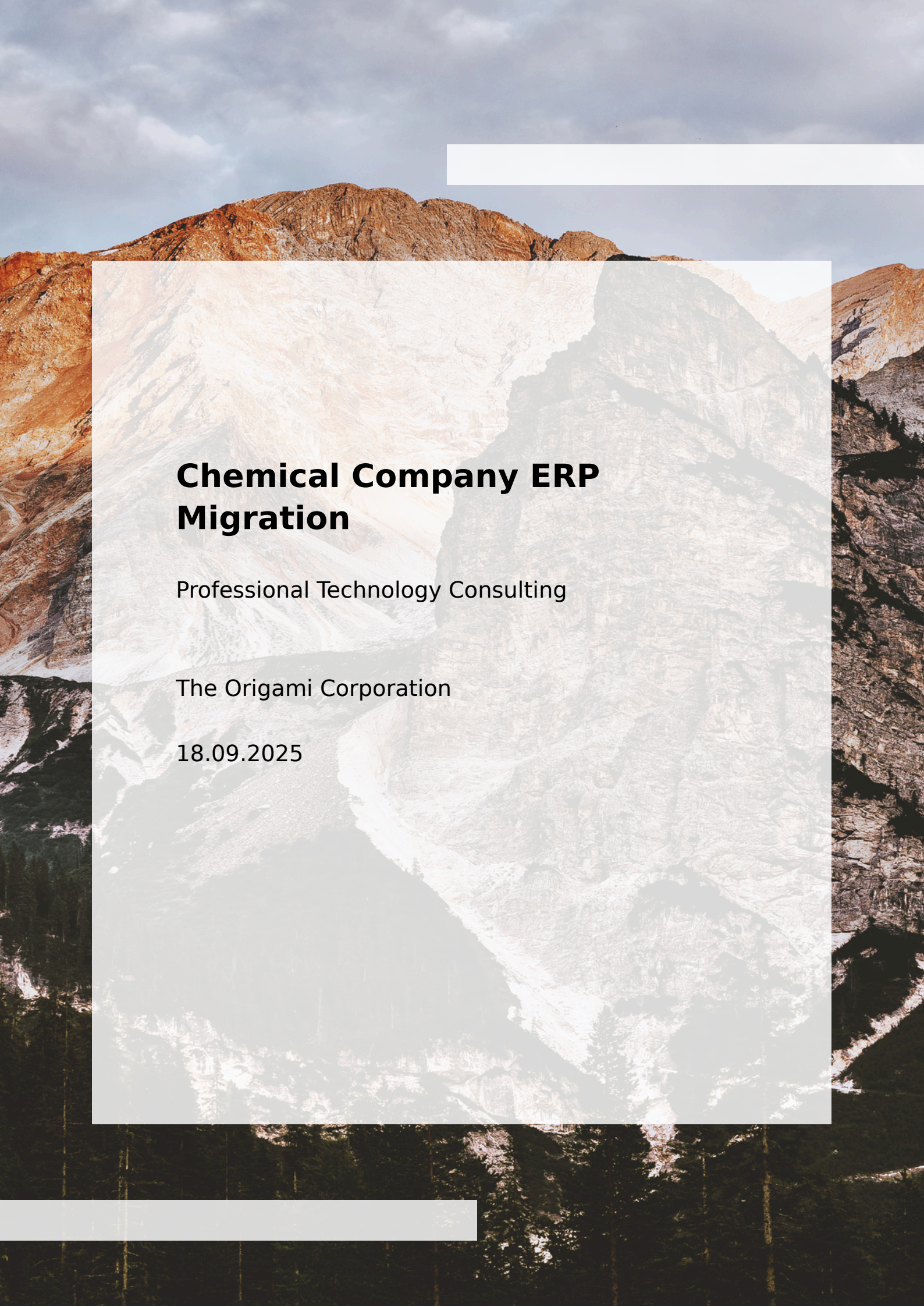




Chemical Company ERP Migration

Professional Technology Consulting

The Origami Corporation

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From Five Systems to One: Modernizing a Chemical Manufacturer with Origami ERP

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About The Origami Corporation

1 From Five Systems to One: Modernizing a Chemical Manufacturer with Origami ERP

1.1 Executive Summary

A mid-sized chemical manufacturer ran core operations across five disparate legacy systems for inventory, production, and compliance tracking. The fragmented landscape led to manual reconciliations, limited visibility, and elevated compliance risk. Over an eight-month engagement, we implemented Origami ERP—configured for the chemical industry—migrated 10 years of historical data to ensure full lot traceability, and augmented the client’s team with six specialists. The transformation eliminated data silos, reduced inventory carrying costs by 25%, and automated compliance reporting, saving approximately 40 hours per month. The result is a resilient, scalable operating platform with standardized processes and real-time insight across the value chain.

1.2 The Challenge

Operating in regulated chemical markets, the client’s production and distribution success depends on precise formulations, tight batch control, and auditable compliance. Their environment included:

- Five separate systems for inventory, production scheduling, quality/compliance, and reporting, stitched together with spreadsheets and weekly CSV transfers.
- Inconsistent master data (units of measure, item codes, CAS numbers) causing frequent stock discrepancies and rework.

- Manual compliance reporting for OSHA/EPA and SDS management, consuming significant staff time and introducing audit risk.
- Limited end-to-end visibility into inventory positions, work-in-process, and lot genealogy, hindering root-cause analysis and recall readiness.
- An inability to scale or introduce process improvements without extensive manual effort and system workarounds.

The executive team sought a single system of record that could handle process manufacturing requirements—formula management, batch/lot traceability, QA holds, GHS-compliant labeling, and regulatory reporting—while preserving 10 years of history for full traceability.

1.3 Our Approach

We delivered a consulting-led ERP transformation centered on five service pillars: erp-implementation, business-process-optimization, data-migration, staff-augmentation, and it-consulting. Our approach emphasized risk reduction, measurable outcomes, and adoption.

- Discovery and process assessment: We mapped current-state workflows from demand planning through batch execution and shipping, highlighting waste, rework, and integration pain points.
- Future-state design: We defined an enterprise process model leveraging Origami ERP best practices for chemical manufacturing—standardizing UoM conversions, FEFO policies, QA hold/release workflows, and compliance data capture at the source.
- Data strategy and migration plan: We established a canonical data model, data quality rules, and a phased migration approach to bring over 10 years of master, transactional, and lot history without disrupting operations.
- Governance and change management: We created a joint steering committee, established sprint-based delivery with clear acceptance criteria, and built a super-user network for sustainable adoption.

To execute at speed, we provided six dedicated specialists for the eight-month transition: 1. ERP solution architect (process manufacturing) 2. Data migration lead 3. Integration engineer 4. Business process SME (chemical operations) 5. QA/test manager 6. Change management and training lead

1.4 Implementation

The program was delivered in four phases—Assess, Design, Build & Migrate, and Cutover—over eight months.

- 1) Assess (Weeks 1–4)

- Conducted site visits and workshops across production, quality, warehouse, and compliance.
- Cataloged all data sources: legacy MRP, inventory database, compliance tracking tool, and two custom applications.
- Identified critical control points: formula versioning, lot status transitions, SDS version control, and environmental reporting needs.

2) Design (Weeks 5–10)

- Configured Origami ERP modules: Formula/Batch Management, Inventory & Warehouse, Quality Management, Compliance & SDS, and Reporting.
- Defined master data standards: item coding schema, UoM conversions (kg/l-b/L), lot numbering conventions, CAS/EC number capture, and hazard classifications.
- Designed role-based security: manufacturing operators, QC analysts, compliance officers, warehouse leads, and approvers with audit trails for material movements and quality decisions.
- Established integration patterns: scheduled APIs for label printing (GHS-compliant), barcode scanners for receipt/issue, and a data hub for ongoing reporting.

3) Build & Migrate (Weeks 11–26)

- Business-process-optimization:
 - Introduced standardized batch tickets with embedded QC checkpoints and electronic signoffs.
 - Implemented FEFO and lot-status controls to reduce aged inventory and scrapped materials.
 - Calibrated MRP/Min-Max parameters using historical demand and lead time variance to right-size safety stock.
- Data-migration:
 - Created an ETL pipeline using SQL-based transformations and scriptable data quality checks.
 - Built a staging environment with reconciliation dashboards to validate data completeness and accuracy.
 - Applied cleansing rules: deduplicated item masters, normalized UoM and densities, aligned supplier catalogs, and validated CAS numbers.
 - Migrated 10 years of history, including lot genealogy, production orders, QC results, and compliance records; executed two mock migrations to de-risk cutover.
- Testing:
 - Performed unit and integration testing of batch execution, COA generation, and lot disposition changes.

- Ran user acceptance tests with scenario packs (e.g., nonconformance handling, batch rework, recall drill).
- Training and readiness:
 - Delivered role-based training and quick-reference job aids aligned to the new workflows.
 - Established super-user champions in warehouse, production, and compliance to ensure first-line support.

4) Cutover & Stabilization (Weeks 27-34)

- Adopted a phased go-live: inventory and quality first, followed by full production and compliance reporting.
- Executed cutover runbooks with freeze windows, data delta loads, and final reconciliations.
- Established daily war rooms for two weeks post go-live to rapidly triage and resolve issues.

Tailoring Origami ERP for the chemical domain included: - Formula management with version control and scalable batch sizing. - In-process quality checkpoints, QA hold/release, and automated COA generation. - GHS-compliant labeling and automated SDS retrieval/versioning embedded in the dispatch process. - Regulatory data capture at point of activity to feed monthly/quarterly reporting (e.g., emissions/usage logs aligned to OSHA/EPA frameworks). - Lot traceability with end-to-end genealogy spanning raw materials through finished goods and shipments.

1.5 Results & Impact

The project met its objectives and delivered tangible business value within the planned eight-month timeline.

- Eliminated data silos:
 - Consolidated five legacy systems into Origami ERP as the single source of truth for inventory, production, and compliance data.
 - Achieved real-time visibility into on-hand balances, work-in-process, and lot status across sites.
- Reduced carrying costs:
 - By optimizing safety stocks, enforcing FEFO, and improving demand/lead-time parameters, the client reduced inventory carrying costs by 25%.
- Automated compliance reporting:
 - Built automated data pipelines and report templates that save approximately 40 hours per month in compliance preparation and submission.

- Increased data quality and audit readiness:
 - Standardized master data and embedded validation rules, improving accuracy and enabling faster internal and external audits.
- Improved operational control:
 - Implemented batch-level controls and QA workflows, reducing manual reconciliations and cycle-time variability in production and release processes.
- Adoption and sustainability:
 - Role-based training and a super-user model drove smooth adoption, with elevated user satisfaction and fewer support tickets after the stabilization period.

Beyond the immediate gains, the client now has a platform to support advanced planning, integrated quality analytics, and expanded regulatory coverage without custom point solutions.

1.6 Technologies & Services Used

- ERP platform:
 - Origami ERP—Formula/Batch Management, Inventory & Warehouse, Quality Management, Compliance & SDS, Reporting
- Data and integration:
 - SQL-based staging and ETL pipelines, API/flat-file connectors for label printing and barcode scanning devices
 - Data quality dashboards for reconciliation and exception handling
- Security and controls:
 - Role-based access control, audit trails for critical transactions, electronic approvals for quality gates
- Services:
 - erp-implementation: End-to-end configuration, testing, cutover, and stabilization
 - business-process-optimization: Future-state design, standard operating procedures, and KPI alignment
 - data-migration: Canonical data model, cleansing, transformation, and history migration over 10 years
 - staff-augmentation: Six specialists across architecture, data, integration, process, QA/testing, and change management
 - it-consulting: Governance, risk management, roadmap, and vendor coordination

1.7 Conclusion

By consolidating five legacy systems into Origami ERP and optimizing core processes for chemical manufacturing, the client achieved unified operations, stronger compliance posture, and measurable cost savings. A disciplined data-migration strategy preserved a decade of lot genealogy and regulatory history, while automated reporting reclaimed 40 hours a month for higher-value work. With standardized workflows, real-time visibility, and a scalable architecture, the organization is now positioned to grow, respond faster to regulatory changes, and extend capabilities into advanced planning and analytics. This engagement demonstrates how focused erp-implementation, grounded in business-process-optimization and supported by robust data-migration and staff-augmentation, can deliver lasting operational and financial impact.

About The Origami Corporation

The Origami Corporation is a leading technology consulting firm specializing in cloud migration, DevSecOps, cybersecurity, and digital transformation. We help organizations navigate complex technological challenges and achieve their business objectives through innovative, secure, and scalable solutions.

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