

# Legacy to the Cloud: A Winning Guide to Application Modernization

**Introducing RAPADIT: An innovative modernization framework designed to build a competitive advantage for ISVs and software companies**

## Introduction

Meeting today's evolving digital expectations with old applications infrastructure is challenging. Still, multiple businesses rely on the on-premise database or legacy products expecting a new-age user experience. They continue with the outdated application infrastructure as numerous thoughts concern them, like the cost overruns; what happens to the on-premise data warehouse? How complicated is the legacy modernization process? and so forth.

Addressing these business skepticism becomes difficult as the ISVs and software companies attempt to implement a scalable and agile environment for their clients. Here, leveraging an Application Modernization framework that is analytical, cost-effective, and time-efficient helps streamline processes.

With Damco's **RAPADIT** (Rapid Application Development and Transformation Framework), organizations can achieve unparalleled digital prowess while saving development efforts and costs by at least 30%. This Value-driven Enterprise Modernization Strategy helps the ISVs and software companies maintain, build and modernize software solutions at an incredible speed and reliability, enhancing their clients' continuity, satisfaction, and competitive edge.

# Application Modernization and the Obstacles

Undertaking application transformation projects can seem overwhelming without a compelling value-driven modernization framework.

## Code complexity makes business rules extraction and mining difficult

Undertaking enterprise modernization services is demanding. A common challenge is failing to extract all the business rules from a given system— existing methods yield errors, mainly causing operational disruptions. Also, the business logic is deeply embedded within the legacy system, making it a time-consuming process.

## Integrating on-premise and cloud infrastructure

When they decide to modernize, businesses and organizations do not wish to abandon their existing on-premise data warehouse. Furthermore, changes to an individual component while scaling up requires replication across the other features, leading to inefficiencies and operational silos.

## Far too few legacy platform experts

By allocating invaluable resources to legacy product maintenance, support, and modernization, ISVs, and software companies are unwillingly compromising the growth of feasible, innovative value propositions. The process consumes the enormous time of developers. Furthermore, experts in legacy platforms are far too few, with technology obsolescence an issue with each passing year.

## Only 28% of projects finish on time and budget with expected functionality

As per the resource *"Modernizing Legacy Systems: Software Technologies, Engineering Processes, and Business Practices,"* development teams commit to a project, underestimating time and costs and assuming everything will go smoothly. About 23% of modernization projects are canceled before completion, while only 28% finish on time and budget with expected functionality.

## A Principled Approach to Application Modernization

The key is to break a modernization project into actionable, pragmatic segments



### Balancing:

Tech drivers with business objectives and prioritize the modernization goals.



### Determining:

The tenet purpose for the on-cloud migration of the concerned organization.



### Replatforming:

Initially, don't begin with the full-scale modernization. Start with one component.



### Defining:

A maturity path based on the initial migration findings.



### Rearchitecting:

Full-scale modernization of the applications/ on-premise database

**Result:** Your clients get closer to unlocking new business values, reaching new customers daily, and becoming future-ready.

# RAPADIT to The Rescue: A Winning Framework to Application Modernization

After 25+ years of experience assisting 100+ ISVs and SaaS companies in building and enhancing their product portfolios and applications, we acknowledge that a successful approach to application modernization requires analysis, time, efficient resources, and methods.

Therefore, post multiple testing, practical calculations, and analysis, we designed a framework **RAPADIT**— a cloud-agnostic model built to create robust and future-ready applications rapidly. A value-driven approach intended to assist ISVs and SaaS companies in modernizing heritage applications and architecture speedily, flexibly, and gaining a competitive edge in the market.

## Our step-by-step approach in ensuring success in modernization:

### In-depth analysis and effective delivery

The framework starts with an in-depth analysis of the existing architecture components to help architects develop, scale, modernize and deliver solutions effectively.

### Innovation at a rapid pace

The pivotal step sets the tone for enterprise modernization at a rapid pace. We then build a team of experts and technologists aligned with your client's vision to ideate and consider the most suitable deployable innovative measures and solutions.

### Optimized costs, product-market fit delivery

Next comes the cost factor. Our customer data demonstrates that development efforts and costs are reduced by at least 30% by deploying RAPADIT. Not only that, our framework helps provide a competitive edge; solution/s gets accelerated market release time with minimal risks.

### Latest microservices architecture that supports high performance

Our services are built on modern platforms like microservices, CI/CD, cloud-native features, and pre-built components. The custom framework helps accelerate the speed at which our experts can refactor existing applications/solutions for your clients.

A rapidly deployable solution integrating elements and cloud-based services, including analytics, AI, ML, or IoT— to cater to the rising digital consumer demands.

### Timely regulatory compliance and multi-layered security

Lastly, to keep the enterprises secured and future-proof, our framework complies with timely regulatory measures supporting stringent multi-layered security standards with access control and monitoring.

## Technology Stack





# Customer Success with RAPADIT

## Social Commerce Platform Development Leveraging RAPADIT Framework

Damco leveraged RAPADIT framework to create microservices architecture based social commerce platform. Team leveraged the pre-built web, mobile and cloud components of RAPADIT framework including views/ templates, controls, design elements, functionalities etc. to quick create and launch MVP of social commerce platform.

### How RAPADIT helped?

- Leveraging pre-built components of the RAPADIT framework to reduce development time by 6 months.
- Latest architecture ensured high performance of mobile applications with a response latency of fewer than 3 milliseconds.



## Transportation and Warehousing Solution Modernization Leveraging RAPADIT Framework

Damco modernized the legacy Warehouse Management System leveraging the Rapid Application Development (RAPADIT) framework. With the pre-built components like tenant management, user management, permission management, MFA, microservices, report builder, etc., using Python, Ionic, Angular, and AWS Services, our framework assisted the software firm in delivering a re-architected solution.

### How RAPADIT helped?

- Leveraging pre-engineered and reusable components reduced development time by 15%
- 55% increase in efficiency due to the elimination of time-consuming manual checks with automated operations



## Conclusion

There is no second-guessing that digital transformation ushered amidst COVID-19. Many companies quickly took to the trend to stay ahead and compete in the market. However, the reality for many enterprises still stands that the data-driven, application-centric upgrade is daunting.

The ISVs and software companies can positively address it with a structured and efficient modernization framework— tailored to their client's business needs. The value-driven application modernization framework, "RAPADIT," includes a thorough analysis of costs, services, and on-premises functionalities to help rapidly modernize and develop robust, future-ready applications and market-winning products.

## Get A Free Application Assessment

Our **application assessment** is a value-packed 60-90-minute custom advisory session hosted at no charge, to evaluate your application modernization drivers and pain points.

In this session, we will be focusing on your challenges and queries, while conducting an assessment of your:

- Current State of Application Landscape
- Pain Points and Drivers
- High-level Approach for potential Cloud Migration or Application Modernization and Development
- Possibilities with New-Age Technologies—AI, ML, Analytics etc.

**Connect with us to get a complete evaluation of your application modernization drivers and explore new opportunities**

**Register Now**

## About DAMCO


Damco is a trusted technology and digital transformation partner. We engineer software products, create new digital experiences, modernize applications, and automate business processes for greater agility and business growth. Our customers range from startups to Fortune 1000 and encompass a wide range of verticals, including Hi-Tech, Insurance, Financial Services, Manufacturing, Healthcare, Non-Profits, and Logistics.


Damco's core offerings span around custom software development and product engineering, digital transformation solutions, enterprise modernization, new-age technologies, data analytics and management, and Salesforce.


With 25+ years of experience in the technology space, we focus on adopting the right combination of technology, methodology, and platforms to deliver the best business outcomes for our customers.

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