

# Telecom Numbering Platform

Modernizing a **Mission-Critical**  
Telecom System with High  
Availability & Scalable Architecture



## Simplifying Complex Telecom Integrations Using a Scalable Numbering Platform

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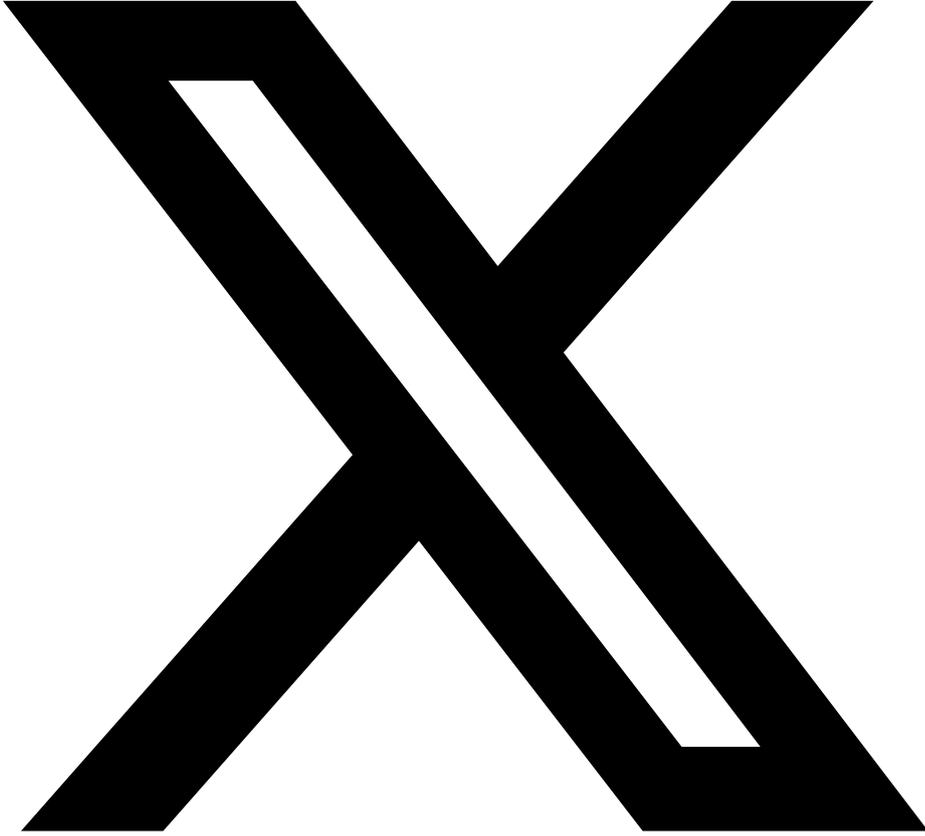


Case Study



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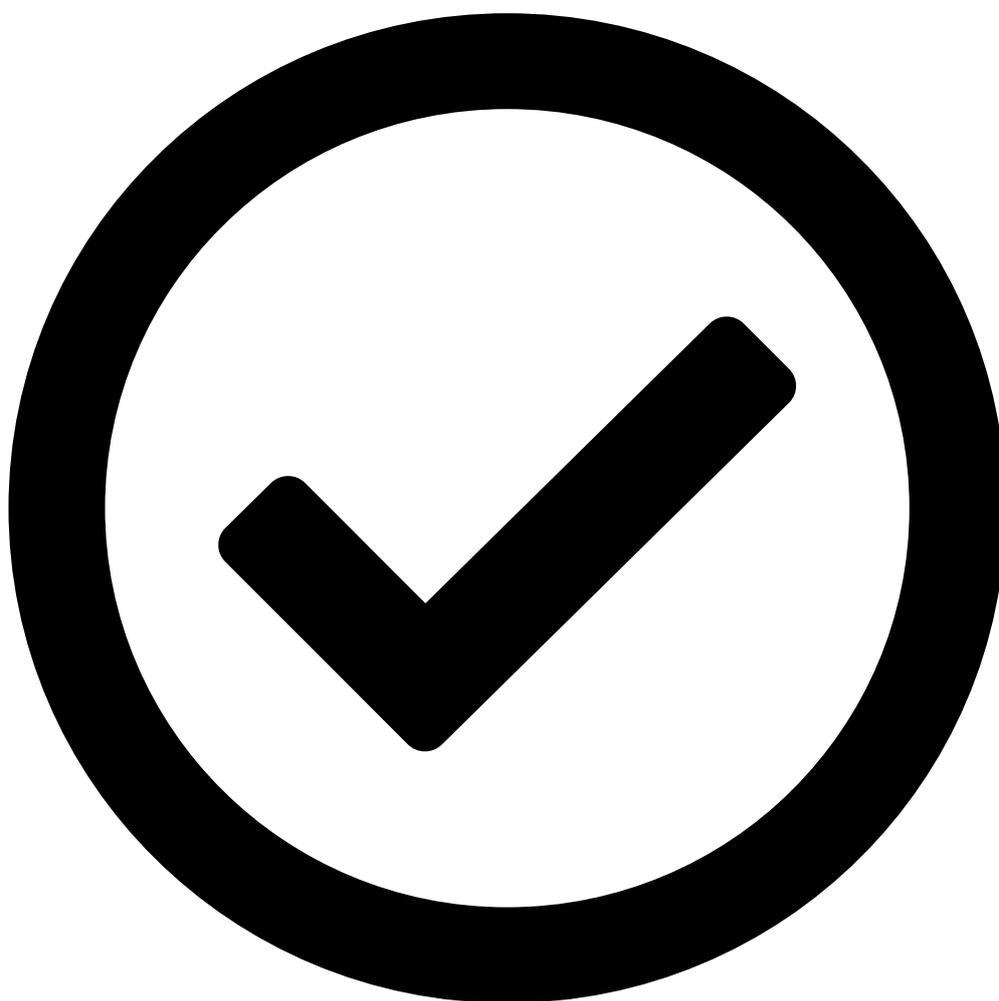
Built to handle high availability, massive scale, and complex telecom integrations.

### **Client**

A US-based telecom software provider serving 15+ telecom operators across 10+ countries, delivering large-scale numbering and regulatory solutions for telecom networks worldwide.

## The Challenge

The client operated a complex, multi-node telecom numbering platform processing millions of transactions per day. The platform required modernization without compromising reliability or regulatory compliance. As the platform scaled, several challenges emerged:



- availability and horizontal scalability for mission-critical workloads

Ensuring high



- Managing deep integrations with enterprise systems, network elements, and regulatory platforms



- hundreds of concurrent users without performance degradation

Supporting



- Maintaining a legacy UI framework nearing end-of-life with limited browser compatibility limited Accessibility: No intuitive interface for asking plain-language questions; only tech-savvy users could dig deep.



- operational risk while continuing uninterrupted telecom operations

Reducing

## **Our Strategy**

TechTez adopted a platform-first modernization strategy, focused on resilience, integration clarity, and long-term scalability.

- Designed a highly available, horizontally scalable architecture capable of handling sustained high transaction volumes
- Established a clear integration orchestration layer to manage enterprise, network, and regulatory interactions
- Modernized the UI using Angular and REST-based services to support parallel users and modern browsers
- Reduced dependency on proprietary frameworks by adopting open-source, enterprise-proven technologies
- Ensured modernization was delivered without disrupting live telecom environments

## **Architecture & Workflow**

### **Platform Highlights:**



- millions of transactions per day

Built to process



- architecture supporting high availability

Active-active



- Seamless integration with Enterprise EAI systems, Telecom network elements and Central regulatory databases



- supporting hundreds of concurrent users

Scalable UI

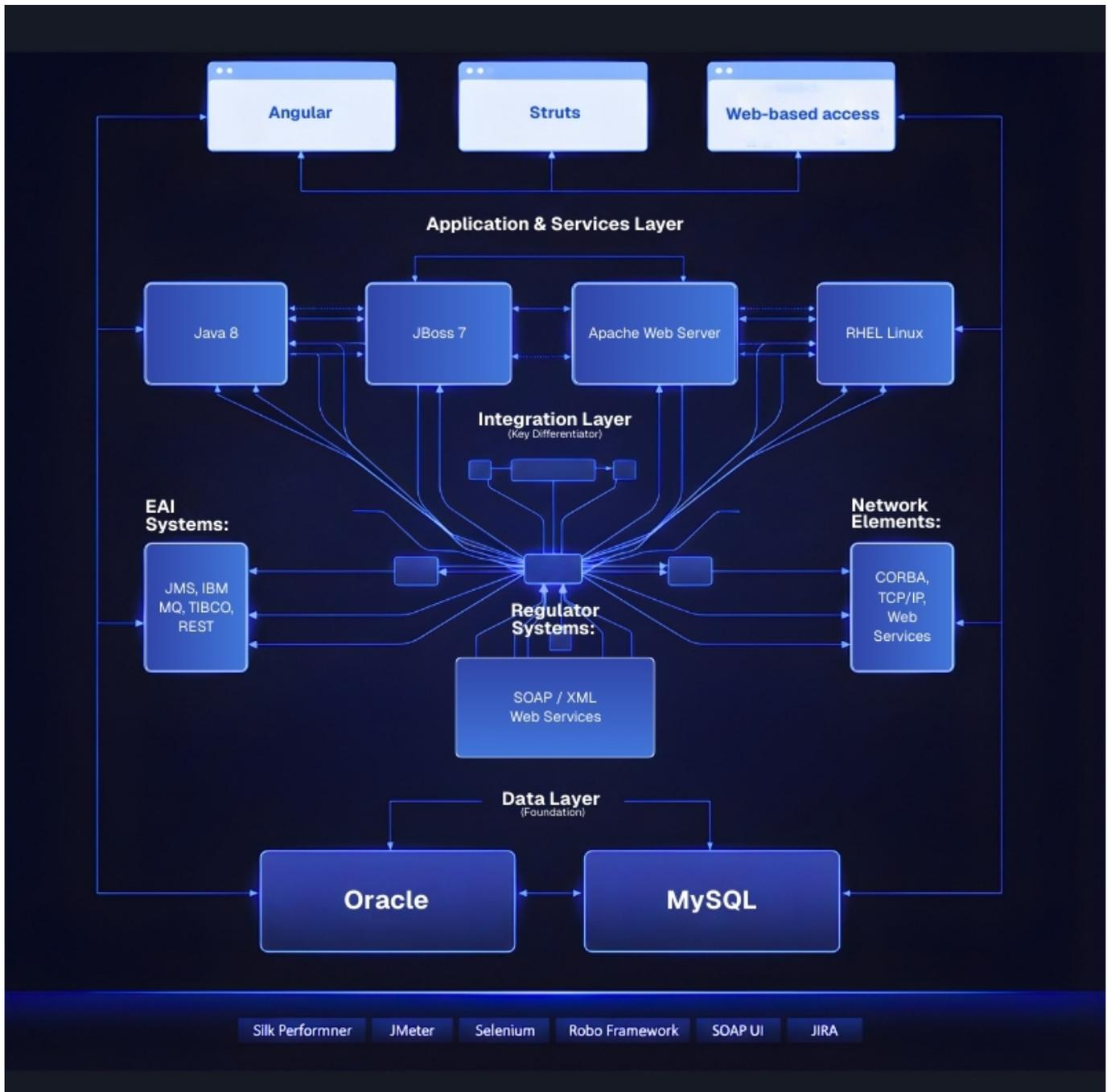


- standards-based communication across all integrations

Secure,

## **Technology Architecture**

- **Application & Runtime:** Java 8, JBoss 7, Apache Web Server and Red Hat Enterprise Linux
- **Integration & Services:** JMS, IBM MQ, TIBCO, RESTful & SOAP Web Services, CORBA, TCP/IP
- **Data Layer:** Oracle, MySQL
- **User Interface:** Angular, Struts
- **Quality, Performance & Delivery:** Silk Performer, JMeter, Selenium, Robo Framework, SOAP UI and JIRA



## Why It Matters

Telecom numbering systems are **foundational to network operations** downtime or failure is not an option. By modernizing the platform while preserving operational continuity, TechTez helped the client:



- mission-critical telecom services

Safely scale



- complex integrations across the telecom ecosystem

Simplify



- lifespan of a core platform without disruptive rewrites

Extend the

## Results



- platform stability and fault tolerance

Improved



- horizontal scalability to meet growing transaction volumes

Enabled



- term maintenance and customization effort

Reduced long-



- experience with a modern, scalable UI

Enhanced user



- regulatory compliance and integration reliability

Strengthened



- platform for future cloud-native evolution

Positioned the

## Our Thought Leadership Guides

- Case Study

### [AWS vs Azure Cost Benchmarking: Architecture-Driven Cloud Cost Optimization in 2026](#)

Compare AWS and Azure cloud costs and learn why architecture, automation, and governance matter more than pricing for long-term efficiency.



# AWS vs Azure Cost Benchmarking

Architecture-Driven Cloud Cost Optimization in **2025**



- Case Study

## [Agentic AI Assistant Framework for Autonomous Task Execution](#)

An agentic, multi-agent AI assistant that plans, executes, and completes tasks via secure tool orchestration and live APIs turning user prompts into real outcomes like bookings and itineraries.



## Agentic AI for **Autonomous Workflow Automation**

From natural language to automated restaurant discovery and table reservations end-to-end, without manual steps.

- Case Study

### [AI-Driven Dermatology Platform for Accurate Diagnosis and Secure Digital Care](#)

A mid-sized SaaS company specializing in HR and payroll management faced a growing barrier:



# Building an Intelligent AI-Driven Dermatology Platform for Accurate Diagnosis and Digital Care

Secure, AI-Powered Skin Analysis with Human-in-the-Loop Clinical Validation