M MAESTRAL

NEXUS

AP Payment System

CASE STUDY

BUILD **SMARTER.** SHIP **FASTER.**

PRODUCT DEVELOPMENT AS A SERVICE COMPANY

Maestral drives the complete software development cycle for clients while acting as a trusted advisor, excelling at technology, and delivering outstanding quality.

Certified AWS Partner

Maestral Solutions is AWS Partner with multiple AWS certificates for professional, associate, and practitioner levels. Our knowledge and expertise in working with AWS services has been attested on a number of successful engagements.

Work Across Geographies

Maestral operates in 5 cities in 3 countries:

HEADQUARTERS	BUSINESS DEVELOPMENT CENTER	BUSINESS DEVELOPMENT CENTER	DEVELOPMENT CENTER	DEVELOPMENT CENTER
Atlanta GA, USA	**New York** NY, USA	**Amsterdam** NL	**Sarajevo** BIH	**Mostar** BIH

aws partner network

Select Consulting Partner

MAESTRAL Ticketing Software

CLIENT

Maestral partnered with Nexus to enhance their **customer experience** for over 50,000 registered users worldwide. Nexus provides a Procure-to-Pay Software Solution that, among other things, **automates paper invoices for the Real Estate Industry.**

They are a trusted mediator in the real-estate industry, who relied on an old and complex software platform to facilitate interactions between buyers (real estate companies) and suppliers (providers of products and services).

SOLUTION

The solution is an improved, better-integrated version of the original system, providing **frictionless bulletproof transactions** between suppliers and buyers.

This comprehensive procure-to-pay software solution simplifies the management of every step of the Accounts Payables process, **from purchase to payment**, and is accompanied by a simple, yet elegant user interface.

MAESTRAL Ticketing Software

BUSINESS REQUIREMENT

The client's legacy system was a complex network of platforms hosted on multiple locations. It consisted of three components:
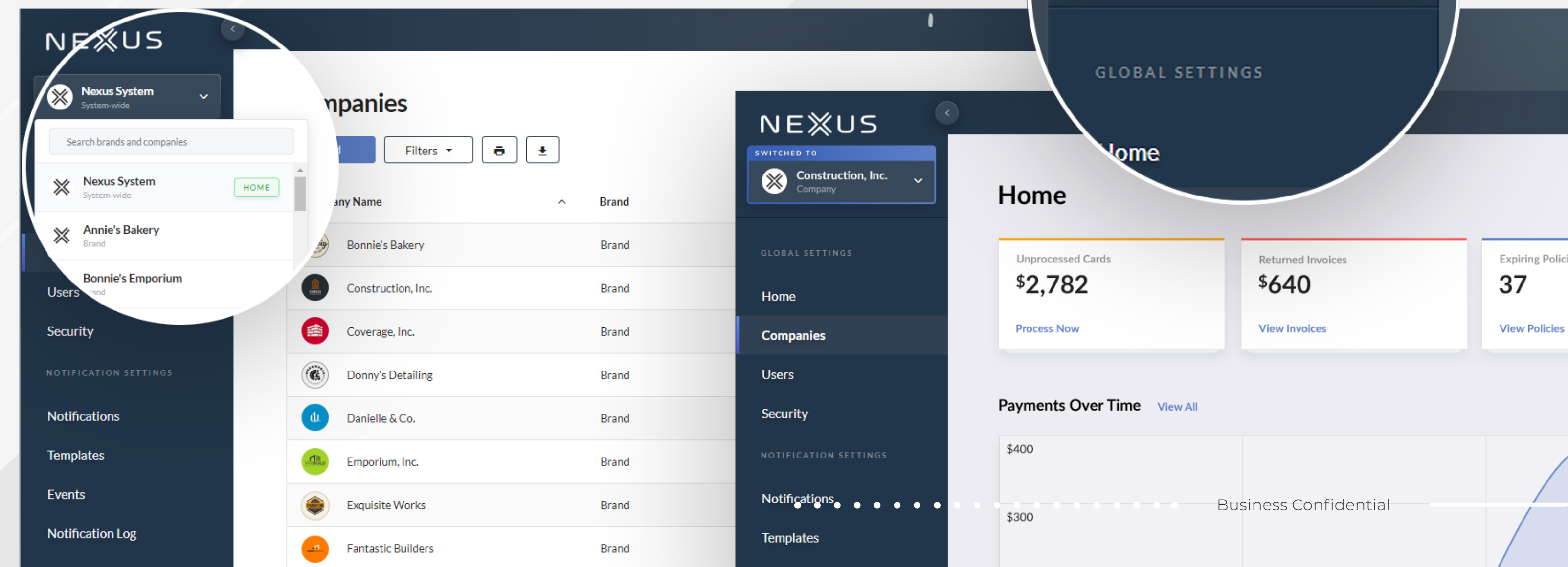
Connecting Service - used by suppliers to establish business contacts and sell their products and services.

Payables Service - used by buyers for payment reviews, payment approvals, creation of invoices etc. It is connected with the buyers' general ledger software, with each buyer having their own instance of the service.

Payment Processor - an external system purchased by the client.

The system was difficult to navigate and costly to maintain, with some applications having individual instances for each buyer. The entire user experience process was significantly time-consuming and frustrating.

They required a **brand new, secure, cloud-based one-stop-shop platform** that is cost-efficient and easy to use.

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DEVSECOPS APPROACH

The solution is a single-page application developed using React JS, with multiple backend microservices, and a Cloud-Native Architecture.

Maestral selected AWS as the cloud platform since it offers the most adequate and production-grade solutions. Maestral's deep expertise in working with AWS brought another layer of reliability and security.

The solution has built-in health checks, retry, circuit-breakers, and auto-scaling capabilities that improve system resilience. It also utilizes AWS availability zones, auto-scaling groups, and load balancer to strengthen availability and recoverability. The following AWS services have been used:

- AWS SNS
- AWS SQS
- AWS CloudWatch
- AWS CloudFormation
- AWS CloudBuild
- AWS CodePipeline

- AWS Fargate
- AWS EKS
- AWS Elastic Load Balancer
- AWS Cognito
- AWS ElastiCache

The platform's microservices application architecture enables multiple teams to work on different parts of the system concurrently without affecting one another, allowing systems to evolve in lockstep with business growth.
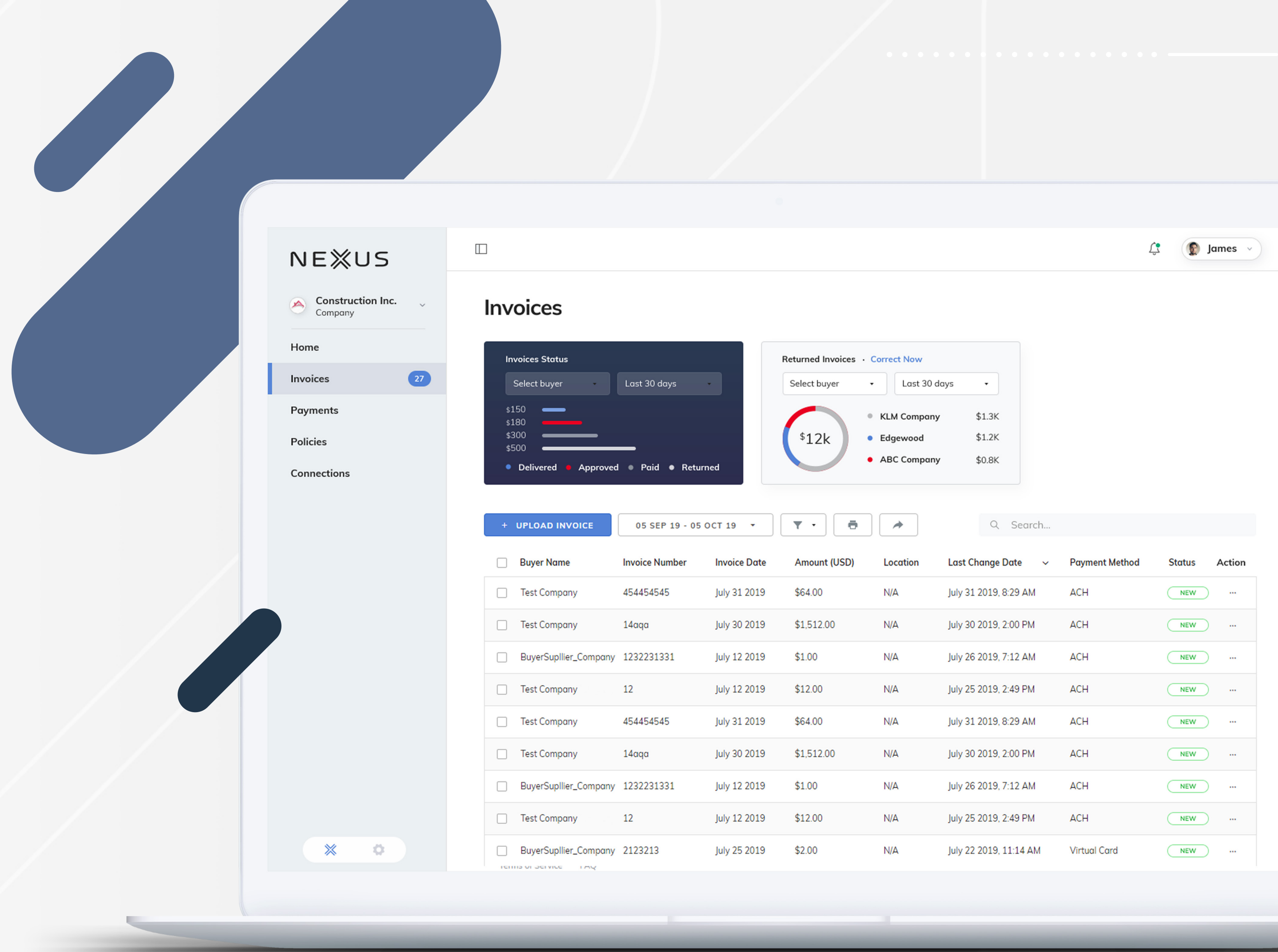
| OUTCOME

Nexus takes ownership of every step of the process in the new solution, eliminating the need for third-party providers and significantly lowering costs.

The new, highly scalable platform handles transactions through Virtual Card, Automated Clearing House, and Physical Checks.

A system client's entire business relies upon.

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