



CORIOS

WE TELL THE **STORY**
NUMBERS CAN'T

Modernize SAS Workloads with Cloud-Based Solutions

How to transform your analytics and
drive agility with Corios Rosetta





The evolution of SAS workloads

Ask a seasoned business analyst who has traditionally been the go-to analytics solution for enterprises, and the answer will often be SAS Institute. For over forty years, traditional industries such as financial services, life sciences, telecom, and insurance have relied upon on-premises SAS infrastructures.

But times are changing as enterprises move away from running conventional data and analytics workloads in traditional data centers in favor of innovative analytics engines and cloud provider services. By some estimates, 80 percent of enterprises will close their data centers by 2025.¹ As companies transition to the cloud, there are a number of new options, often creating

1. Gartner, "The Data Center Is (Almost) Dead," August 5, 2019.

<https://www.gartner.com/smarterwithgartner/the-data-center-is-almost-dead/>

a challenge among old-school data analysts about which tools, platforms, and environments to use to conduct analytics. And younger data and analytics practitioners and leaders have a preference for more modern workspaces using the latest technology, including open-source solutions such as Python and Spark.

Corios Rosetta can fit almost any cloud scenario, from lifting and shifting a SAS solution to the cloud, to undergoing a full-scale transformation on AWS.

In this eBook, learn how Corios Rosetta improves performance, cost savings, and agility by modernizing SAS assets and blending them with cloud provider services by Amazon Web Services (AWS) and with innovative contemporary analytics engines.

Why move on from traditional data and analytics platforms?

Companies have myriad reasons for moving on from conventional data and analytics approaches. In some cases, an organization's costly licenses are coming to renewal, and/or its legacy infrastructure or software is becoming increasingly difficult to maintain. Other enterprises want to be able to inventory and modernize their most valuable workloads (and the analysts who built them) to extend their value, update the costliest workloads to better manage resources, and mitigate the riskiest workloads to mediate against exposures and compliance challenges.

Yet other companies have concerns about protecting data from breaches and vulnerabilities, especially personally-identifiable information (PII). In this legacy versus modern situation, organizations have accumulated years and years of bad habits from programmer analysts who have unknowingly exposed sensitive company data assets. These include exposed passwords, downloaded data, and unsecured copies of PII data.

Proving compliance with CCPA, GDPR, and company specific mandates is another motivating factor to do some serious housekeeping and, at the same time, modernize analytics.

Whatever the reason, a successful SAS transformation requires a methodology and a platform to help you see what's inside your SAS Institute workloads, migrate to the cloud, optimize workloads, and ensure compliance.



Case Study

Umpqua Bank realizes increased agility through Corios



The need for agility, balanced with privacy compliance standards, inspires some companies because old ways and antiquated thinking have led to inertia. Leaders are looking for faster, more nimble ways to tackle the same challenges. Faster, nimbler tech for data and analytics is key to staying competitive.

Like a lot of financial services companies, Pacific Northwest super-regional Umpqua Bank had a goal: Enhance unmet customer needs in its commercial banking market. Umpqua's challenge? It didn't have a computing platform that supported the integration of various data sources required to identify the customers' underlying banking needs. On top of that, the bank needed a computing platform that would support customer privacy requirements and, as is often the case, was up against a compressed timeline.



Umpqua turned to Corios for a solution. After interviewing Umpqua's users to understand their individual needs, Rosetta accelerated Corios'



Case Study (*continued*)

assessment of Umpqua Bank's unique analytics requirements. Within two weeks, Corios designed a suitable customer privacy-compliant managed services environment at AWS.

The computing environment was constructed in a person-month and completed a SOC2 and PCI-DSS security audit in two more months, successfully addressing Umpqua's business initiative. Critical to a financial services client like Umpqua, Corios is a managed services provider, compliant with both the AICPA SSAE-16 SOC2 Type II and the Payment Card Industry Data Security Standard (PCI-DSS).

Umpqua's new platform gave its analysts support for commercial data analysis, machine learning, and reporting—and it was completed five months ahead of the bank's normal implementation schedule, saving roughly 4,000 hours of effort and hundreds of thousands of dollars of labor and materials.

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In contrast to other initiatives, where we had become accustomed to waiting 8-12 months or more to see results, Corios rapidly designed and built a secure, privacy-compliant analytics environment in just a few weeks. We were extremely pleased with Corios' turn-around time and professionalism. The main proof point is how it accelerated the alignment of the data strategy and development work to overall corporate strategy.

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—Drew Anderson,
Chief Data Officer (CDO)
and Investor Relations
Director, Umpqua Bank

Case Study

How an auto manufacturer sped up its data analytics

Other companies are looking to modernize infrastructure in order to take advantage of the speed, scale, and cost advantages of the cloud. That was the case for a leading global auto manufacturer that manages a portfolio of extended service and maintenance contracts to help customers reduce operating costs and increase vehicle uptime.

The company had a data analytics solution that defined the content of the offering as well as set standard costs and commercial pricing to optimize the performance of the portfolio. The problem was the solution was slow, code-heavy, and difficult to scale across the entire portfolio with the level of detail that key users and stakeholders desired and needed.

Enter Corios, who put together a pilot project on AWS so it could visualize the price and coverage term and impact of hundreds of thousands of scenarios for its contracts. In comparison to the prior approach,





Case Study (*continued*)

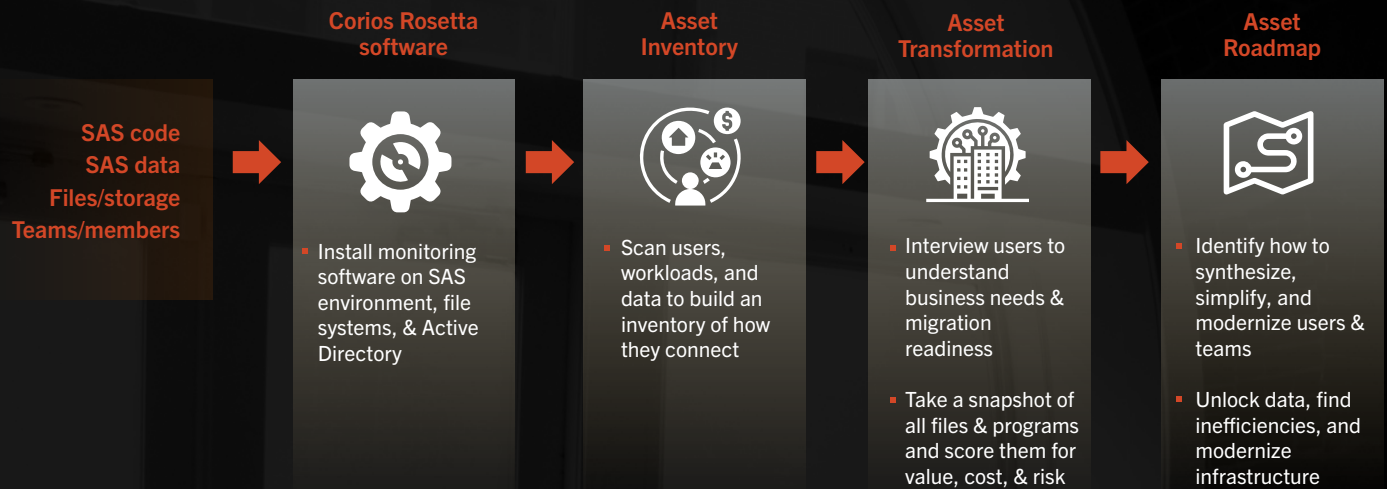
the pilot solution slashed the amount of code by 50 percent and ran the pricing scenarios in memory, while reducing the calculation time for each scenario from 4-plus minutes to near real-time.

As a result of being able to analyze data virtually instantaneously, portfolio managers work more efficiently, optimize pricing, and reduce claim costs, all of which boost the profitability of the manufacturer's portfolio.

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In contrast to other initiatives, where we had become accustomed to waiting six months or more to see results, Corios rapidly produced a very compelling pilot solution for our portfolio management analytics initiative in approximately 2 weeks. We were extremely pleased with Corios turn-around time and pilot that checked off all our requirements. Based on the pilot, we are seriously considering Corios and AWS for the development and hosting of our future data analytics solution.”

—Corios global automotive manufacturing client



How Corios Rosetta works

Corios Rosetta is a methodology that uses professional services and software to migrate SAS assets from on-premises to cloud providers like AWS, and to contemporary analytics engines that run on modern open-source standards like Python and Spark. For example, on AWS, customers can optimize workloads, better understand what's inside their SAS Institute workloads—unlocking lost or buried data stored on-premises—ensure compliance, and enable new practices and analyses in the cloud.

Corios Rosetta installs monitoring software on your SAS environment, file systems, and directory services like Active Directory; inventories the analytics workloads and their logs; scans every line of all those jobs; connects them back to the analyst who built the workload; and uses a points-based scorecard to rate each workload for value, cost, and risk.

Using an evidence-scored strategy to measure value, cost, and security and compliance risk exposures, Corios Rosetta determines the best ways to modernize your analytics discipline. It then assigns your corporate resources like people, time, and budget in order to make the right decisions about your customers, risks, and assets.

The end result: data, analytics, people, and processes become more agile and effective, while modernizing the way users can gain insight from data.

Pick the right path to the cloud for you

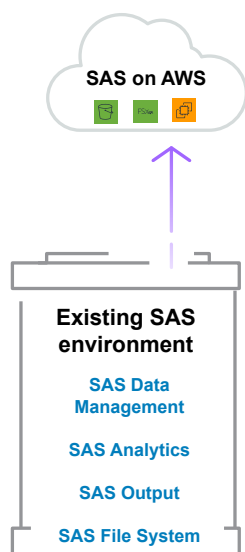
Corios Rosetta can fit almost any cloud scenario, from lifting and shifting a SAS solution to the cloud to undergoing a full-scale transformation on AWS.

With lift and shift, SAS Institute workloads are moved directly to the cloud for storage and compute capabilities, allowing you to perform today's work in the cloud tomorrow.

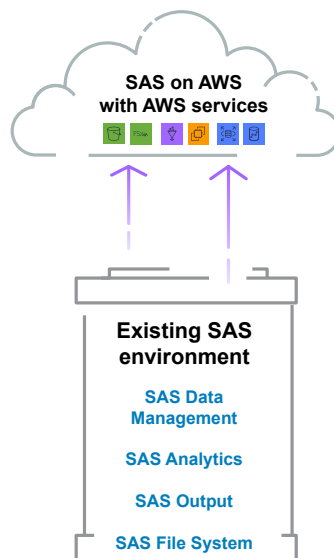
In a restructuring/refactoring migration, selected analytics functions are enhanced by AWS native services. So, if you currently perform data management or database calculations in SAS, you can move those functions out of SAS and into AWS.

A full transformation migrates all on-premises SAS data and analytics workloads to the cloud to begin consuming new native AWS services.

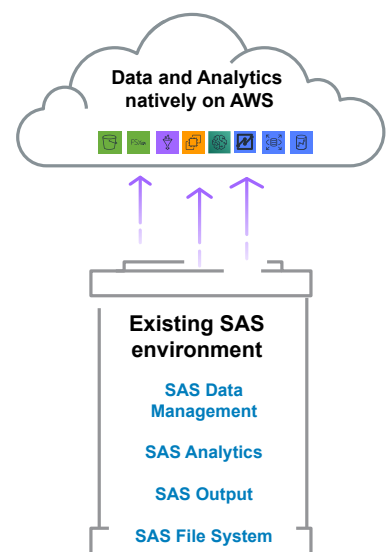
Lift and shift



Restructure



Fully transform



Modernize your SAS workloads

With Corios Rosetta, you modernize—in a cost-effective and efficient way—how you perform analytics, rather than just drop your data into the cloud.

This gives you the freedom to go beyond translating and refactoring, unlocking your data and making your team and processes more agile and effective. And it modernizes the way you access, work with, and leverage the core capabilities of the cloud:



Agility: Get the most out of cloud scale, compute capabilities, and easy adoption of new technology.



Modernization: Incorporate new opportunities and services not possible with legacy systems.



Cost and efficiency: Reduce or remove contract lock-in costs and physical infrastructure.



Compliance: Ensure data, users, and workloads are transparent, auditable, and secure.

The outcome of implementing Corios Rosetta? You can increase the depth and breadth of your analytics and eliminate duplication.



Introducing Corios Rosetta

Corios Rosetta combines software and professional services to establish the value, cost, and risk of your SAS components, helping you find the best path to migrate your SAS workloads to AWS. Robin Way, Corios Founder and President, wants to show you **how Corios Rosetta can benefit your business.**

Become a cloud-first organization with Corios and AWS

The Corios team are AWS Cloud and SAS Institute experts with certifications and decades of experience. Corios Rosetta lets you easily migrate your SAS assets to the cloud, modernizing your analytics platform along the way. Using a unique blend of software and professional services, Corios Rosetta helps quantify and qualify the best path to the cloud and best AWS services to use.

Corios Rosetta maximizes the return on your existing SAS analytic assets. Combined with AWS, you can consume scalable, dynamic storage, and compute capabilities to transform your data, deliver detailed analytics, increase collaboration, and save money.

Corios can help you migrate your SAS Institute workloads, data, and users to a cloud-based infrastructure on AWS to take advantage of cloud scale, cloud flexibility, and cloud security—then explore modern ways to do business.

Learn more about Corios

“[Corios President] Robin Way is that rarest of breeds: an accomplished data guru who can translate complex technical concepts into terms that every business person can understand and appreciate. His leadership in bridging the historical divide between our IT and Marketing functions has been integral to helping our company achieve its vision of a data-focused, insight-driven organization.”

*- James Weber, Chief Marketing Officer
and Executive Vice President, Comerica Bank*

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