

The background of the top half of the page is a photograph of three white semi-trucks driving on a two-lane road towards the viewer. The scene is set at sunset, with the sun low on the horizon to the left, creating a warm, golden glow. A blue line graphic, resembling a stylized road or a data path, curves across the sky above the trucks. The text 'TRANSPORTATION GIANT BRINGS 20 YEARS OF LEGACY SYSTEMS INTO THE MODERN AGE' is overlaid in large, white, bold, sans-serif capital letters on the lower portion of the image.

TRANSPORTATION GIANT BRINGS 20 YEARS OF LEGACY SYSTEMS INTO THE MODERN AGE

Capgemini's automated migration strategy leads to an efficiency increase of more than 500 percent

One leading US-based transportation and logistics company is on a mission to transform the supply chains that our economies depend on. It possesses one of the largest fleets of trucks in North America and has an expansive network of maintenance facilities across the United States.

It is critical that this enterprise industry leader has the right systems architecture in place to operate efficiently today and in the future. Future-proofing its organization meant ensuring its technologies were up-to-date and ready for the next generation of challenges.

Capgemini built a custom solution that modernized 20 years of legacy applications in just 10 months. Using automation, Capgemini saved the enterprise time, money, and resources.



Out with the old, in with the new

The company's applications servers were running Windows 2008, and they had to be retired by the end of 2023. It needed to lift and shift these applications over to Windows 2019 servers.

Migrating these applications proved to be challenging in many ways:

- The customer had more than 700 web applications spanning back more than 20 years, all maintained across many different applications teams
- The applications leveraged third-party dependencies which were not compatible with Windows 2019 servers
- The applications needed to support HTTPS and user authentication through Okta, as the legacy authentication tool had been deprecated and was no longer supported
- Existing binaries had to be opened and modified to handle the new code dependencies, and then re-assembled automatically
- The customer had to migrate databases midway through the project, meaning that the applications had to be reconfigured to point to new DNS host names.

Migrating towards a better future

Capgemini worked with the company to deploy a collection of tools to facilitate the successful migration.

- A Classic ASP and .NET Automation (CASPA) tool was developed to automatically resolve common dependency errors that the applications ran into on the Windows 2019 servers. When team members ran the CASPA against

an applications folder, the tool would automatically de-assemble existing binaries, make required changes, and then reassemble the binaries. The team was only required to manually make one-off adjustments as necessary, rather than adjusting these binaries throughout the entire process – saving time and resources.

- The team developed a NuGet package that automatically integrates Okta into all applications, removing dependencies on outdated tools.
- The Capgemini team also tapped into its extensive documentation knowledge to catalog over 700 applications and nearly 35 data points of interest. When it was time for the company to migrate database servers, that team and documentation proved to be invaluable.

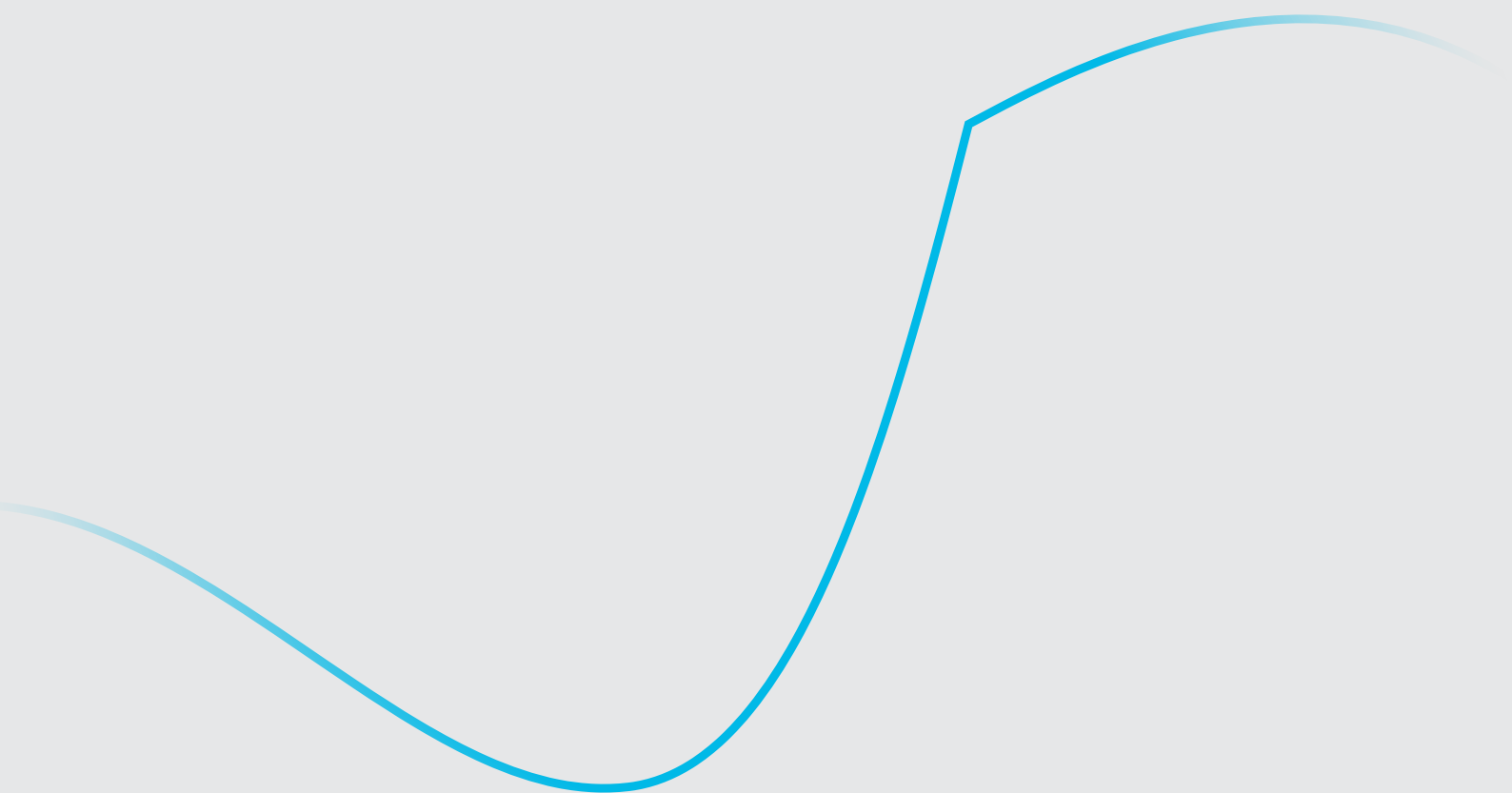
Automation that makes a difference

These successful migration efforts established Capgemini as a trusted advisor.

New automated processes increased efficiency by more than 500 percent. The automation tools enabled our team to operate 41 percent faster, ensuring that we migrated our client's applications as efficiently as possible. In a period of 10 months, we successfully migrated 20 years' worth of applications onto Windows 2019 servers.

Automated processes also allowed Capgemini to cut costs by 75 percent, a savings that went directly back to the company.

The company is now able to focus on its mission of transforming supply chains across North America, and steering the innovation that allows it to remain at the helm of the transportation and logistics industry.



About Capgemini

Capgemini is a global leader in partnering with companies to transform and manage their business by harnessing the power of technology. The Group is guided every day by its purpose of unleashing human energy through technology for an inclusive and sustainable future. It is a responsible and diverse organization of 360,000 team members in more than 50 countries. With its strong 55-year heritage and deep industry expertise, Capgemini is trusted by its clients to address the entire breadth of their business needs, from strategy and design to operations, fueled by the fast evolving and innovative world of cloud, data, AI, connectivity, software, digital engineering, and platforms. The Group reported in 2022 global revenues of €22 billion (about \$23 billion USD at 2022 average rate).

Get the Future You Want | www.capgemini.com