CA Technologies and Cognizant Joint Solutions

Reinvent IT With Next-Generation Industry Solutions

The Importance of Digital Transformation in the Hyper-Connected Era

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To succeed in today's digital age, enterprises must rely on software to win, serve and retain business. Modern customers are digital natives—those born into a culture where technology is not a luxury, but a way of life. And they're using software to carry out nearly every activity—to work, to shop and to play. To thrive in this new hyper-connected reality, you must place digital transformation at the center of your corporate strategy. But far too often, organizations take a myopic and siloed approach to change. They tack on online channels and mobile applications, and they take small steps toward adopting an agile business model.

And it's easy to understand why. The complexity and risk inherent in systemic change is over-whelming. It requires challenging existing organizational structures, processes and policies—and generally demands a cultural overhaul within IT. This incremental approach, however, is putting you at a disadvantage as progressive companies continue to disrupt entire industries with new services that are setting the standard of excellence. In fact, according to the IDC, one-third of leaders in virtually every industry will be upset by competitors that leverage third-party platforms to deliver new offerings and reach new customers.[1]

To avoid this outcome, you must respond quickly to the ever-evolving demands of your consumers, employees and partners. You must release new features faster, out-innovate competitors and keep a constant eye on what's next. Speed, however, is not the only stressor bearing down on your enterprise. Your business also faces a crushing pressure to deliver high-quality applications that are free of errors. In fact, two-thirds of business leaders say their company's future depends on the quality of their software.[2] What's more, as you continue to open your enterprise and connect to cloud vendors, mobile apps and partners, you must safeguard the exchange of information to keep your data and your users protected.

Together, CA Technologies and Cognizant address these challenges with joint solution offerings specifically designed to:

- Make your business faster, smarter and more agile.
- Build quality into the start of the software development lifecycle (SDLC).
- Turn digital security from a barrier into an enabler of innovation.

[1] IDC, "IDC 50th Anniversary: Transform Everywhere", 2015, https://www.idc.com/IDC_50anniversary/download/IDC50thAnniversary.pdf

[2] Harvard Business Review sponsored by CA Technologies, "Surviving Disruption, Leading Change: Winning in the Application Economy", 2015, http://www.ca.com/content/dam/rewrite/files/White-Papers/HBR%20Report_final.pdf

Make Your Business Faster, Smarter and More Agile

Rising user demands are forcing organizations like yours to develop applications faster. That said, common development pains can make achieving that goal problematic. In traditional sequential development scenarios, teams often experience unproductive idle time as they wait for needed services or environments to become available. On top of that, applications—and the number of enhancements, fixes and components they require—continue to grow exponentially. And when an expanding workload and inefficient, unproductive methods collide, go-live dates get pushed out, time-to-revenue extends and competitors have the opportunity to fill a gap you've left in the marketplace.

In order to reduce or eliminate the impact of these challenges and achieve competitive advantage within the application economy, leading companies have begun adopting DevOps and the scaled agile framework. But as mentioned earlier, change is never easy. It requires an expensive and grueling upgrade of not only your development and deployment tools, but also your processes and culture. This is where CA Technologies and Cognizant can help.

Cognizant helps your organization understand its progress in agile adoption with detailed analysis and services ranging from assessing readiness, to developing recommendations and roadmaps for continuous improvement, to delivering results that drive business results. Using CA Agile Central for end-to-end project execution, Cognizant guides organizations throughout their entire agile journey, from strategy to mechanics.

Cognizant also has extensive DevOps experience and leverages this expertise to provide you with comprehensive services that span strategy, planning, execution and managed services. Cognizant then layers its DevOps framework on top of CA Technologies market-leading DevOps solutions, including service virtualization and release automation. Using this powerful combination of thought leadership, strategy and tools, organizations like yours can achieve transformational outcomes by removing critical dependencies and constraints so your teams can work in parallel, and standardize and automate your release processes to improve the quality and velocity of app releases.

Build Quality in From the Start

To succeed in the application economy, businesses need to execute on quality—not just speed. But far too often, testing is pushed off until the end of the SDLC when user interfaces are complete and all dependencies, including third-party services, are integrated and accessible. But with deadlines looming, there are often not enough resources or time to run exhaustive integration and performance tests. As a result, errors are commonly released into production where the cost to rectify problems is high and the impact on the customer experience can be devastating. In fact, 89 percent of customers will walk away from a company after one poor experience.[3]

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By embedding quality engineering and assurance (QE&A) practices much earlier in the development lifecycle, you can fix defects more quickly at a lower cost, speeding time to market and increasing customer satisfaction. But executing on this vision is easier said than done. Teams often struggle to execute tests across all application layers and a massive and ever-changing range of mobile devices. And they're challenged with developing the required number of test cases to cover all use and performance scenarios. What's more, shifting testing left requires the simulation of unavailable or constrained resources, like mainframes, APIs or third-party services. This is often a time-consuming and expensive undertaking.

But with CA Technologies and Cognizant's joint QE&A solutions, you can embed testing into all phases of the SDLC. With Cognizant's help, you will set up your own testing infrastructure to ensure ongoing quality and assurance. Embedded within this infrastructure are CA Technologies tools—such as CA Application Test, CA Test Data Management, CA Service Virtualization and CA Agile Requirements Designer—that can help you remove testing constraints and systemically automate testing throughout the SDLC.

Turn Digital Security Into an Enabler of Innovation

As you continue to adapt the ways of an open enterprise by connecting to an ever-growing network of services, vendors, partners and customers, the security perimeter you once counted on to protect your users and data from threats is no longer enough. Matters of security then become a barrier to innovation, limiting what services you leverage, what data you expose and what vendors and partners you engage with.

And despite an increased awareness of looming threats and a surplus of available security products, many IT systems are still at risk from threats. Why? Because many take a products-based approach to security, using one solution to protect infrastructure, another to safeguard an application and yet another to protect data. This can leave significant gaps in your overall security posture.

Cognizant and CA Technologies offer a better alternative: a converged security platform that brings together data analytics and anomaly detection into a self-learning model. By taking security out of silos and centralizing it, you have unfettered access to behavioral context that can interact with any platform, app or infrastructure, giving you finer-grained security and access control.

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About the CA Technologies and Cognizant Partnership

Collaboration is central to Cognizant's philosophy, and a pillar of its service delivery model. By channeling the expertise of leading technology partners, Cognizant puts the right tools in its customers' hands. CA Technologies is proud to be one such partner. Through our joint service offerings and integrated services, the alliance has helped enterprises around the world embark on digital transformation journeys and protect their data and their users.

What success have we had?

- A multinational banking customer cut development environment setup time from 42 days to 3 days.
- A large retailer reduced environment setup cost and per-test execution from 8 hours to 10 minutes.
- A large airline increased test coverage by 95% and reduced defects into production by 35%.
- A nonprofit biopharmaceutical research and development community streamlined clinical trial operations, improved communication and secured data and user privacy between member companies and clinical trial sites.

To learn more about our partnership, visit www.ca.com/cognizant.

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CA Technologies (NASDAQ: CA) creates software that fuels transformation for companies and enables them to seize the opportunities of the application economy. Software is at the heart of every business, in every industry. From planning to development to management and security, CA is working with companies worldwide to change the way we live, transact and communicate—across mobile, private and public cloud, distributed and mainframe environments. Learn more at **ca.com**.

About Cognizant
Cognizant (NASDAQ: CTSH) is a leading provider of information technology, consulting, and Business Process Services, dedicated to helping the world's leading companies build stronger businesses. Headquartered in Teaneck, New Jersey (U.S.), Cognizant combines a passion for client satisfaction, technology innovation, deep industry and business process expertise, and a global, collaborative workforce that embodies the future of work.