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Capgemini's New Smart QA Testing Platform Eliminates Inefficiencies throughout the Financial Services Testing LifeCycle

Smart QA is a Self-Managing Autonomic System with Smart Assets and Intelligent Test Automation

Paris, New York – May 10, 2016 - Capgemini, one of the world's foremost providers of consulting, technology and outsourcing services, announced today the launch of Capgemini's Smart Quality Assurance (QA)[1] testing ecosystem for financial services institutions. Capgemini's Smart QA is an analytics-driven platform that helps banks, financial institutions, and insurers build an end-to-end ecosystem, which includes testing assets, a test environment, test data and performance data. Capgemini's Smart QA is designed to work in conjunction with its Intelligent Test Automation Platform, Smart Foundry[2] and Command Center[3] for better collaboration and to enter markets faster. It has been developed for the financial services market with inherent capabilities to serve other industries.

"Smart QA has been designed to help financial services institutions keep up with the rapid pace of innovation required to address today's digital disruption and DevOps demands," said Govind Muthukrishnan, Head of Financial Services Testing, Capgemini. *"By integrating the test ecosystem using smart assets, zero touch testing, smart environment provisioning, and 360 degree view insights and analytics, Smart QA is expected to drive down cost of delivery and cycle times by 30 to 40 percent on average, while significantly improving customer experience."*

Smart QA is a smart self-aware and self-monitoring analytics-driven platform which "learns" the resources[4] it uses in addition to automatic discovery and correction of known faults. The platform is designed around three key entities that can swiftly adjust, evolve and make decisions with a testing system:

- A Smart Asset can be a test case, test environment or test data and each asset can evolve, self-monitor and self-correct based on environmental factors.

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[1] QA or quality assurance describes administrative and procedural activities to confirm that requirements and goals are met for a software application or system.
[2] Smart Foundry is an integrated environment and test data provisioning factory using Dockers and data management solutions. This factory provides environments based on the visual and configurable configuration management database.
[3] Command Center is a real-time online reporting tool.
[4] Resources refers to testing assets, test environment and test data.

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- Smart integrations allow various tools, components, frameworks and each of the smart assets to speak to each other within the correct context. Enabled through open APIs[5], and integration, these components can help set the rules of engagement between assets, minimizing manual interventions. For example, smart integrations allow a smart test case to define the environment and data set required for execution.
- An analytics engine includes cognitive capabilities powered by smart techniques and insights which test architects can use to prioritize what needs to be tested, optimize testing efforts, and identify areas of improvement. Smart QA also knows how much testing is required and which assets should be used.

Together, the components seamlessly connect with robotic agents to deliver a zero touch[6] testing experience.

Smart QA uses micro-services architecture principles consisting of services which can be subscribed to individually or as a complete service model. Key components include: Capgemini's recently launched Intelligent Test Automation Platform[7], Smart Foundry — an integrated test environment and data provisioning factory, Big Insights Analytics[8], Command Center —a near real-time reporting tool, and a Gamification layer. Capgemini's Smart QA introduces new roles by reducing dependencies across entities through aware and adapt principles minimizing total cost of delivery and cycle time while keeping the quality high.

To learn more about Smart QA for financial services, visit www.capgemini.com/smartqa or contact financialservices@capgemini.com.

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[5] An Open API is a publicly available application programming interface
[6] Zero touch testing describes automated testing efforts that do not require manual intervention for execution.
[7] Capgemini's Intelligent Test Automation Platform is an integrated automated testing solution designed to help financial services institutions meet the fast pace of innovation required to address today's industry disruptions.
[8] Big Insights Analytics connects analytics to understand the relationship between various components e.g. defects trends and code changes, environment availability and productivity, or defect arrival rate versus code quality.

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