



ADPART™

THE ULTIMATE TEST DESIGN MACHINE

Cognizant ADPART automates the complete test design process enabling leading enterprises achieve **100% quality coverage** and **reduces test cycle time by up to 50%**

The Dual Mandate:

Faster to Market Vs Reduced Quality Assurance Cost

Increased access to information and technology has enabled end-users become more knowledgeable than ever. Organizations around the globe are grappling with a dual mandate of creating a competitive distinction in their products with a faster time to market and at a reduced cost of quality. Research indicates that the failure rate of large IT projects with budgets more than \$1 million was almost 50% higher and 33% of them failed mainly due to functionality issues and poor quality.¹

With greater complexity arising from the convergence of technology, software sourcing, compliance and security, assuring business readiness and ensuring consistent end-user experience have become critical to application development. Moreover, as test case repositories continue to assume large proportions, test design aspects tend to be chaotic and aligning them with business processes could be overwhelming.

Introducing Cognizant ADPART, an end-to-end test design automation product that enables businesses experience faster release cycles with impeccable quality

¹ Gartner Survey Shows Why Projects Fail, June 2012.

ADPART (Activity Diagram-based Path Analysis and Regression Testing) is a patented model-based test design product that interlinks business process with testing. It replaces the maze of written manuscripts often used to document business processes and requirements with activity diagrams. The in-built algorithm helps software testers identify the most recent changes made through iterative application modeling, as well as track other system components that are affected by any customization. ADPART's Reverse Engineering feature allows testers to instantly create models from their existing test cases with just a click, enabling a seamless user experience.

Cognizant ADPART eliminates the manual effort of authoring test cases and ensures quality is embedded early in the application development lifecycle

ADPART features at a glance

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|--|---|
| <ul style="list-style-type: none">• Automated test scenario and test case generation• Automated test case prioritization and optimization | <ul style="list-style-type: none">• Automated regression analysis, impact analysis for defects and changes in requirements• Automatic identification of test cases based on the risk exposure quotient |
| <ul style="list-style-type: none">• Model business flows directly from test cases• Requirements to test cases traceability | <ul style="list-style-type: none">• Import/Export business models and test artifacts• Shared workspace and effective configuration management of test artifacts |

The ADPART advantage

Interlink business processes and testing

- Embed interconnected business flows
- Patented path traversal algorithms that automate test cases

The Agile agenda: Manage alterations to workflows instantly

- Risk-based prioritization and optimization of test cases
- Comparison of business process flows to identify change impact

Bring BAs, Quality Engineers, and the overall enterprise on a common platform

- Enhance collaboration with shared workspaces and multiple languages
- Illustrative depiction of business processes, test cases and test scenarios

Reverse engineering gives a remarkable head start to digitize test design

- The inbuilt algorithm promptly translates excel-based test cases to business models
- Instant automation of test cases takes you a step closer to End-to-End automation

Top 4 reasons why businesses need ADPART



Accelerated release cycles:

Struggling to convince IT managers to introduce new features in release cycles? ADPART's change management module lets business analysts introduce new product features with just a click of a button. Enterprises can now experience 3 times faster release cycles.[†]



A robust digital footprint:

ADPART now has the rare ability to sift through multitudes of test cases and create models. It can now import test cases from existing repositories and create activity diagrams based on them right away. Enterprises can now bring orderliness to their testing strategy even in projects where requirements are obscured and challenged with maintaining huge repositories for test cases.



Assured quality:

Working through a maze of test case documents and business flows can be daunting and error-prone. ADPART's seamless integration with business process flows and use cases ensures 100% quality coverage across the application lifecycle.



Instant QA Cost Reduction:

Large business modules lead to complicated process flows that could render requirement defects go undetected. ADPART highlights defects much early in the lifecycle and its ability to generate automated test scripts from process flows drastically reduces your Cost of Quality by over 10%.

A case in point

A leading US apparel retailer with myriad systems and processes was bracing up for critical releases without compromising on quality. This required validating more than 7,000 test cases in a short time span.

Challenges

- Needed an elaborate test case revamp exercise
- Test case prioritization for maximum risk exposure
- Short time span with a fluid requirements landscape

How did ADPART help?

- Instant identification of the most optimal path to test all scenarios at least once
- Identity high defect/risk modules with just a click
- Perform impact/regression analysis for quality coverage

By the end of ADPART implementation:



The overall test cycle time was reduced by 30%



The entire test suite was optimized by 28%



The product landscape was digitally integrated across upstream/downstream systems

[†] Note: Benefits based on prior implementations. Actual results may vary.

For more information on how you can benefit from ADPART reach us at:
ADPARThelpdesk@cognizant.com

About Cognizant

Cognizant (NASDAQ: CTSI) is a leading provider of information technology, consulting, and business process outsourcing 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.

With over 100 global development and delivery centers worldwide and approximately 233,000 employees as of March 31, 2016, Cognizant is a member of the NASDAQ-100, the S&P 500, the Forbes Global 2000, and the Fortune 500 and is ranked among the top performing and fastest growing companies in the world.

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Cognizant

World Headquarters

500 Frank W. Burr Blvd.
Teaneck, NJ 07666 USA
Phone: +1 201 801 0233
Fax: +1 201 801 0243
Toll Free: +1 888 937 3277
Email: inquiry@cognizant.com

European Headquarters

1 Kingdom Street
Paddington Central
London W2 6BD
Ph: +44 207 297 7600
Fax: +44 207 121 0102
Email: infouk@cognizant.com

India Operations Headquarters

#5/535, Old Mahabalipuram Road
Okkiyam Pettai, Thoraipakkam
Chennai, 600 096 India
Phone: +91 (0) 44 4209 6000
Fax: +91 (0) 44 4209 6060
Email: inquiryindia@cognizant.com