

Model Based Testing Workbench for VisionPLUS®



**Increase quality while
lowering costs through
Capgemini's intuitive
model based approach**

As VisionPLUS® implementations grow in complexity and scope, they become increasingly difficult to develop, test and deploy. The direct and indirect costs associated with testing each release are constantly on the rise. To some degree, a reuse oriented approach utilizing a test repository can help contain testing costs and address complexity. However, the sheer number of scripts and their inter-dependencies make it hard to organize and use a test repository for VisionPLUS. Analyzing and modifying thousands of test cases manually is both time consuming and prone to errors.

Capgemini's Model Based Testing Workbench for VisionPLUS addresses these challenges head on. Model based testing is an attractive alternative to traditional test-script design because it employs a visual, non-linear approach. A model is used to describe the behavior of the system under various functional and data scenarios. The model can be adapted for each new release and then generate hundreds or thousands of test cases at the click of a button.

Model Based Testing: Clear Advantages

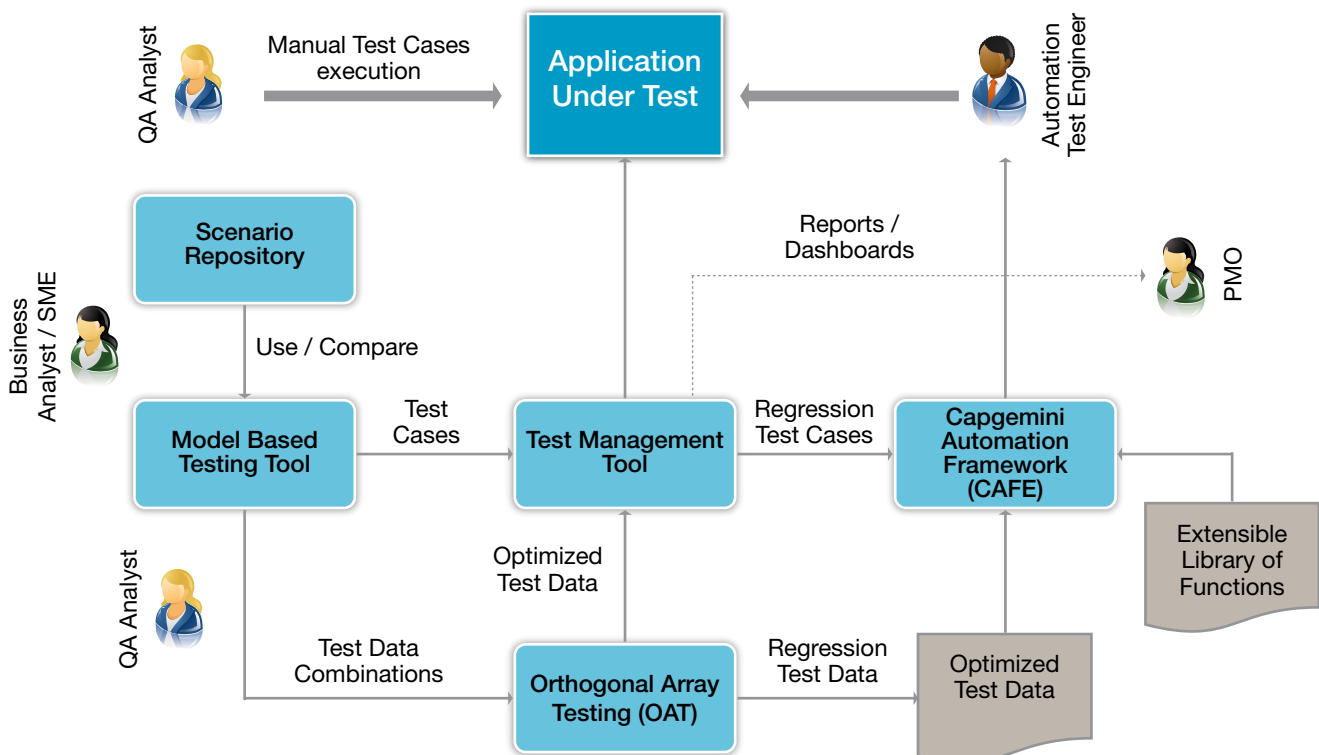
With model based testing, the amount of effort needed in the preparation phase of a project can be reduced by as much as 30%.

Model based testing is a methodology and toolset designed to accelerate the creation of test scripts. The tools let users describe the system under test using process models which then automate the generation of test cases. With model based testing, the amount of effort needed in the preparation phase of a project can be reduced by as much as 30%. Capgemini's Model Based Testing Workbench for VisionPLUS:

- Significantly reduces preparation phase effort through an accelerated, accurate test script design process
- Derives bi-directional traceability for better requirements management
- Simulates functionality or process flows in the application to speed up the review process
- Detects ambiguities and defects in requirements at an early stage.

VisionPLUS implementations usually involve multiple releases each year due to scheme compliance changes, updates to the base product, or features added by card issuers to cater to changing business needs. Global financial institutions often install customized variants in multiple geographies. When managing multiple implementations across the world, financial institutions can develop a model representing the base product, and utilize it to create scripts for each product release. To test the new release, testers can just update the model and re-generate scripts at the push of a button rather than make individual updates to thousands of test cases in the repository.

Capgemini's VisionPLUS Model Based Testing Workbench



An Established Leader in Cards Testing

Testing cards platform requires test professionals who understand the cards business. With experience converting over 80 million accounts, Capgemini has supported platform migrations, upgrades, enhancements and portfolio conversions for clients across the globe.

Proven Value

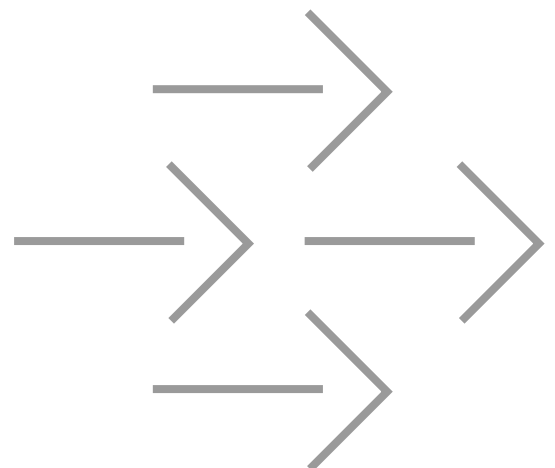
Capgemini's Financial Services testing practice has a proven track record of delivering mid- to large-scale testing engagements across banking, payments, insurance and capital markets domains. Capgemini's global testing team is one of the largest dedicated testing practices in the world and includes:

- **8,200** test professionals globally
- Over **2,700** test professionals focused on Financial Services
- More than **1,000** test professionals certified in ISTQB

Coverage for VisionPLUS

- Account opening
- Transaction posting
- Payments
- Authorizations
- Collections
- Customer correspondence

- Billing and statementing
- Customer services
- Loyalty and rewards
- Fraud and dispute processing
- Interchange processing and scheme compliance



VisionPLUS Model Based Testing Workbench Addresses Common Industry Challenges

Your Company Is...	Capgemini Provides...
Implementing the VisionPLUS workbench for the first time	A comprehensive, ready to test framework of test cases covering all the key business functions associated with cards processing.
Customizing an existing workbench	A cost-effective method for customizing an existing workbench for new releases of VisionPLUS.
Reducing testing costs for release-based VisionPLUS projects	A robust architecture that offers effective and sustainable mechanisms of re-using previously designed tests.
Planning a multiple-region roll out	A solution that enables the timely customization of a base model for testing variants of the product for different geographies or business units.
Managing the completeness and coverage of testing in large and complex implementations	A workbench with bi-directional traceability between tests and business requirements to ensure the comprehensiveness and validity of generated tests.

“Capgemini’s Model Based Testing Workbench is a proven, proprietary solution that includes testing assets, tools and accelerators with a financial services focus. Unlike most testing solutions, our Workbench was created in partnership with Capgemini clients including some of the world’s largest financial institutions to help solve their real-world testing challenges. Our solution is focused on financial services applications such as TS2, Guidewire, Calypso, and SWIFT.”

Govind Muthukrishnan
Vice President and Global
Financial Services Testing Leader

For more information, contact us at: fstesting@capgemini.com or visit: www.capgemini.com/fstesting



About Capgemini

With more than 128,000 people in 44 countries, Capgemini is one of the world’s foremost providers of consulting, technology and outsourcing services. The Group reported 2012 global revenues of EUR 10.3 billion.

Together with its clients, Capgemini creates and delivers business and technology solutions that fit their needs and drive the results they want.

A deeply multicultural organization, Capgemini has developed its own way of working, the Collaborative Business Experience™, and draws on Rightshore®, its worldwide delivery model.

Learn more about us at
www.capgemini.com

All products or company names mentioned in this document are trademarks or registered trademarks of their respective owners.