

Calypso[®] Model Based Testing Workbench

A model based approach to automate test design and accelerate testing for Calypso

Calypso is an integrated trading, risk and trade processing platform for derivatives and treasury products. It provides front, back and middle office functions for multiple asset classes such as foreign exchange, fixed income, interest rate derivatives, credit derivatives and other derivatives instruments. When implementing Calypso, financial firms must address the complexities of the trading functions while also focusing on the numerous counterparty configurations and integration options of the current trading system.

Capgemini can help. Based on our experience in testing Calypso systems for global capital markets firms, we have created the Calypso Model Based Testing Workbench. The Workbench is a pre-built, proprietary solution that accelerates end-to-end testing for Calypso implementations. As the industry's first complete testing solution for FX, Fixed Income and Interest Rate Derivatives asset classes, Calypso Model Based Testing Workbench is built to work with industry leading testing packages.

Jump Start Your Testing Efforts

Why Model Based Testing?

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, experienced testing professionals with domain knowledge can reduce testing time for commercial software by as much as 30%.

Capgemini's Calypso Model Based Testing Workbench provides customizable testing methodologies to support Calypso implementations and reduce time to market. The Workbench includes:

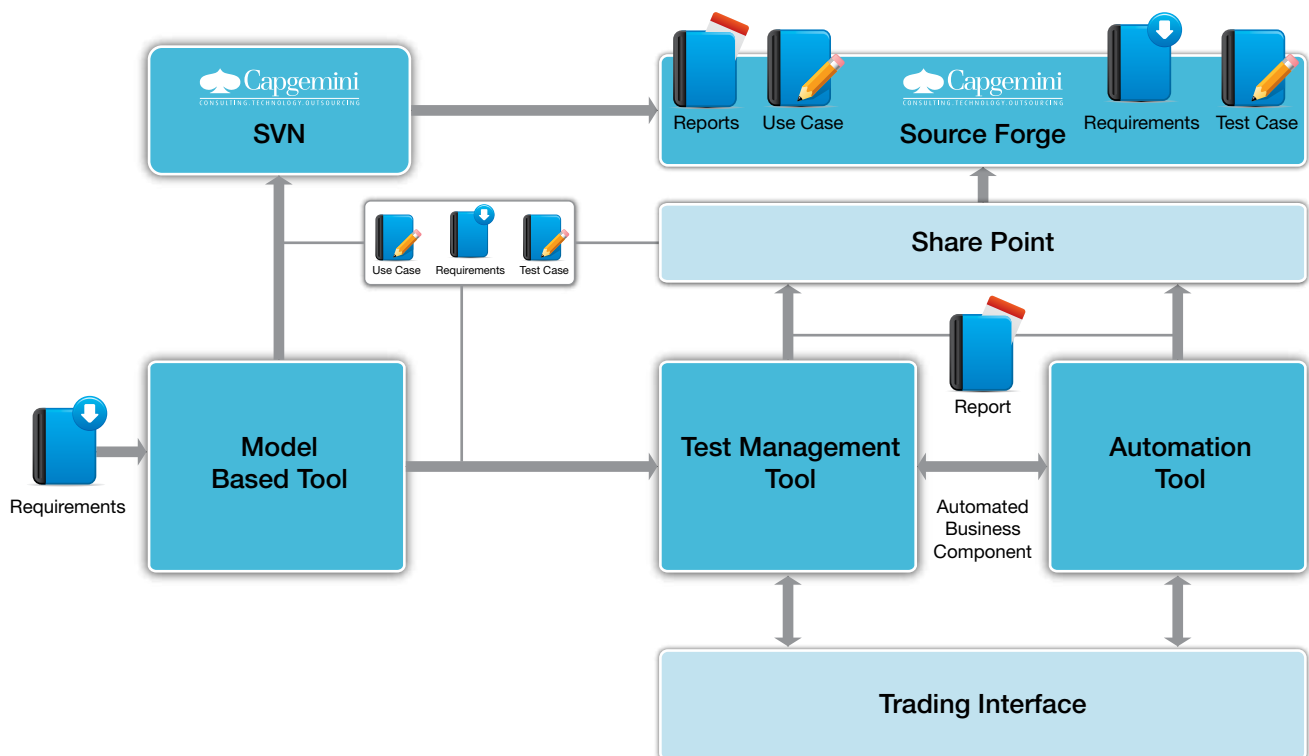
- Commonly defined requirements for Calypso systems
- Over 100 functional use cases, that covers the entire functionality
- Calypso product configurations to match the functional use cases
- Testing scenarios derived from models to assess end-to-end business functionality
- Customizable automation frameworks for functional testing

- Business model definitions for functional workflows
- Detailed test case and test data definitions
- HP Quick Test Professional® scripts
- Business process testing components derived from the models.

Coverage

The workbench has an exhaustive library of business use cases, reusable test scenarios, and test steps with coverage of key transactions including: foreign exchange spots, foreign exchange forwards, interest rate and currency swaps, and bonds.

Capgemini's Automation Framework



Ready- to- use artifacts

Capgemini’s standardized approach brings stability and reliability to your Calypso testing efforts. Using a pre-built library of artifacts, your testers can select standard Calypso scenarios that apply to your specific implementation, ensuring more complete test coverage while minimizing testing efforts.

Reusability

Since the workbench is built on industry-standard testing tools, you can reuse components such as QuickTest Professional scripts, business process components, or automation frameworks.

Proven Value

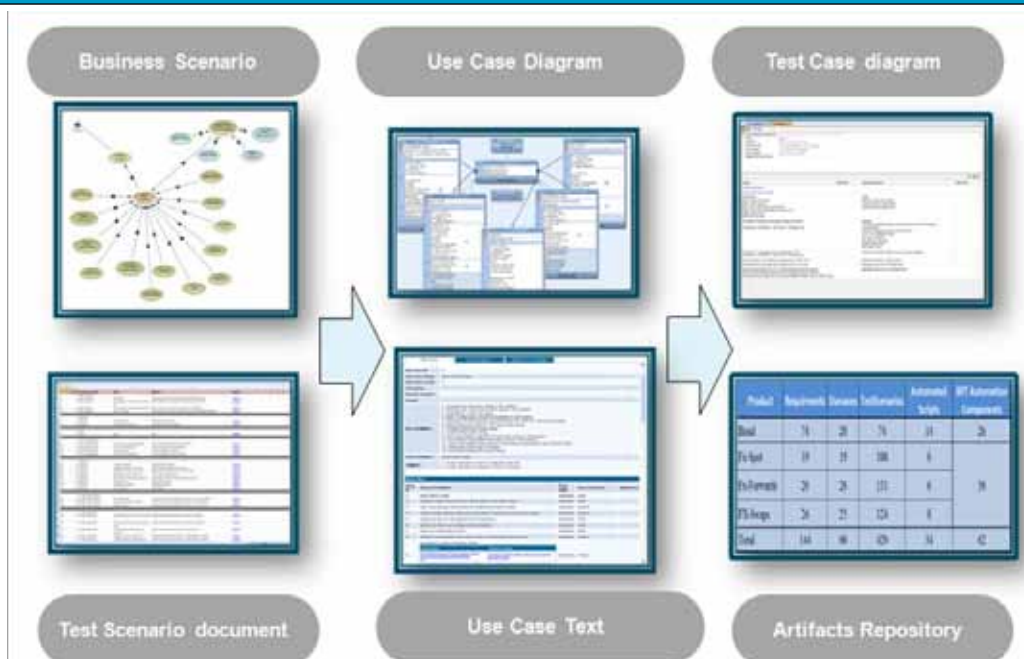
Capgemini’s Financial Services testing practice has a proven track record of delivering mid- to large-scale testing engagements across banking, payments, insurance and capital markets domains. Our test professionals bring a combination

of domain and testing expertise. 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

| Business Coverage | |
|---|---|
| Market Data <ul style="list-style-type: none"> ▪ Zero Curve Creation ▪ Pricer ▪ Configuration ▪ Quote Window | Front Office <ul style="list-style-type: none"> ▪ Trading Amendments ▪ Trading Authorization ▪ Trade Execution ▪ Trade Termination ▪ Trade Maturity |
| Trade Entry <ul style="list-style-type: none"> ▪ Fix-Float ▪ Float-Float ▪ Fees ▪ Cash Flow Updates | Back Office <ul style="list-style-type: none"> ▪ Confirmation Messages ▪ Payment/Receipt Messages ▪ DTCC Messages ▪ Transfers ▪ Posting |

Model Based Testing Workbench Lifecycle Management



“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 Guidewire, Calypso, SWIFT and VisionPLUS.”

Govind Muthukrishnan
Vice President and Global
Financial Services Testing Leader

| Calypso Model Based Testing Workbench Addresses Common Industry Challenges | |
|--|---|
| You Firm is... | Calypso Model Based Testing Workbench Provides... |
| Implementing Calypso for the first time | A ready-to-test framework that includes defined QA processes and methodologies for end-to-end functional testing. |
| Upgrading to the latest version of Calypso | A framework that can be customized to support regression testing for Calypso version upgrades. |
| Migrating static, market and trade data into Calypso | A head start by utilizing pre-defined and customizable use case models, test scenarios and test cases. Our workbench includes test methodologies that speed migration, system and integration testing to ensure connectivity between different legacy trading applications. |
| Integrating a new component with an existing Calypso implementation | Different customizable test methodologies to help perform system and integration testing of both the existing application and the new integrated component. |

Learn more about Capgemini’s Model Based Testing Workbench for Financial Services. Email us at fstesting@capgemini.com or visit www.capgemini.com/fstesting.



About Capgemini and the Collaborative Business Experience

Capgemini, one of the world’s foremost providers of consulting, technology and outsourcing services, enables its clients to transform and perform through technologies.

Capgemini provides its clients with insights and capabilities that boost their freedom to achieve superior results through a unique way of working, the Collaborative Business Experience™.

The Group relies on its global delivery model called Rightshore®, which aims to get the right balance of the best talent from multiple locations, working as one team to create and deliver the optimum solution for clients.

Present in 40 countries, Capgemini reported 2010 global revenues of EUR 8.7 billion and employs around 112,000 people worldwide.

Capgemini’s Global Financial Services Business Unit brings deep industry experience, innovative service offerings and next generation global delivery to serve the financial services industry.

With a network of 18,000 professionals serving over 900 clients worldwide, Capgemini collaborates with leading banks, insurers and capital market companies to deliver business and IT solutions and thought leadership which create tangible value.

For more information please visit www.capgemini.com/financialservices

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