

SWIFT Protocol Model Based Testing Workbench

Increase test coverage while reducing testing efforts using our Model Based Testing approach

A worldwide community of financial institutions, Society for Worldwide Interbank Financial Telecommunication (SWIFT) is the leader in communication solutions enabling interoperability between its members, their market infrastructures and their end user communities. SWIFT allows more than 9,000 banking organizations, securities institutions and corporate customers in over 200 countries to automate and standardize financial transactions, thereby lowering costs, reducing operational risk and eliminating inefficiencies from operations. For member organizations,

the periodic annual upgrades and releases from SWIFT are mandatory and can lead to version compatibility issues when interacting with older versions of the protocol. This can lead to challenges when upgrading and testing all applications for compliance. Additionally, SWIFT specialists and subject matter experts are required when testing SWIFT messages on business flows. Financial institutions may not have a team available with the right SWIFT expertise to manage an upgrade, lead a migration or integrate a new application into existing SWIFT interfaces.

Complete test coverage for trading & settlement systems

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 SWIFT Protocol Model Based Testing Workbench provides a comprehensive solution to help financial firms test electronic trading and settlement applications, payment systems and SWIFT interfaces including:

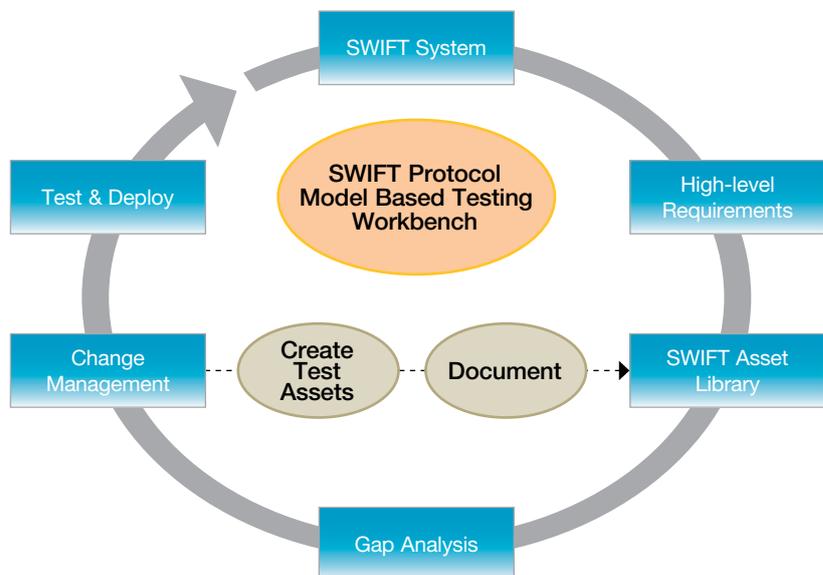
- Trading applications
- Settlement applications
- Custodian systems
- Payment systems
- Client/broker dealers systems
- Investment management systems

Our Workbench lets financial firms increase test coverage while lowering testing efforts by using models to create test cases or scripts. Capgemini has created models specifically for SWIFT protocols which take the guesswork out of your testing efforts.

By using our Workbench, you can:

- Minimize risk through compliance to SWIFT protocol message standards
- Reduce time to market with predefined test scenarios that shorten the design phase; pre-defined test cases that speed implementation; and a proven methodology to streamline the execution phase
- Manage requirements using Blueprint Requirement Center which provides complete test coverage and ensures that all test cases are mapped to requirements
- Minimize rework through requirements visualization and modeling
- Increase test coverage using optimal test cases
- Enable faster customizations using a flexible framework

Capgemini's SWIFT Protocol Model Based Testing Workbench



- Support customizations of test data, SWIFT testing assets or SWIFT testing framework to match the specific needs of your systems
- Achieve a faster return on investment through cost and time savings

Ready to use framework using leading vendor provided tools and open source tools

Ready- to- use artifacts

Capgemini’s standardized approach brings stability and reliability to your SWIFT protocol testing efforts. Using a pre-built library of artifacts, your testers can select standard 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	
Payments	Securities
<ul style="list-style-type: none"> ▪ Account management ▪ Initiation ▪ Clearing and settlement ▪ Cash management 	<ul style="list-style-type: none"> ▪ Settlement and reconciliation ▪ Pre-trade, trade and post-trade ▪ Corporate actions ▪ Proxy voting ▪ Investment funds ▪ Securities lending and borrowing

“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

SWIFT Protocol Model Based Testing Workbench Addresses Common Industry Challenges	
You Firm is...	SWIFT Protocol Model Based Testing Workbench Provides...
Implementing SWIFT protocol for the first time	A ready-to-test framework that complies with regulations and includes defined QA processes and methodologies to speed SWIFT testing.
Upgrading to the latest version of SWIFT	A framework which can be customized and upgraded to a higher SWIFT standard release. Capgemini continuously maintains our framework to match the latest SWIFT standard release.
Migrating from another protocol to SWIFT	A head start by using pre-defined and customizable use case models, test scenarios and test cases. Capgemini’s Workbench includes testing methodologies that speed migration, system and integration testing to ensure connectivity between legacy trading applications and SWIFT interfaces.
Integrating a new application with existing SWIFT interfaces	A variety of customizable testing methodologies to support system and integration testing for SWIFT interfaces in securities and payments.

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

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