

# SEPA Model Based Testing Workbench

**Capgemini offers Model Based Testing solutions for SEPA to accelerate your Euro Payments Services**

Single Euro Payments Area (SEPA) is an initiative of the European Payments Council that has increased the responsibility of all banks and other financial institutions to update the payment landscape to meet the market needs.

In addition to stability in the market and shorter timeframe for implementation, it has become important for all banks to customize their existing payments system more effectively and efficiently.

Testing has become a key challenge for payments products in meeting the mandatory SEPA deadlines.

Capgemini can help banks overcome these challenges using our rich testing experience in the payments sector. Our innovation in payments has enabled us to build the SEPA Model Based Testing Workbench that speeds up the payments testing process for our clients.

# Model Based Testing: Clear Advantages

## Specific Features SEPA Scheme

- XSD Validation
- Bulking/Debulking
- Bilateral Mandate
- Bank Identifier Code (BIC)
- IBAN Required
- SEPA Data Format
- Collection Currency: EUR

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 SEPA Model Based Testing Workbench includes proprietary accelerators build specifically for SEPA which use our model based approach. It includes over 1,800 ready-to-use business scenarios that cover the SEPA payments system. Our capabilities include support to test Payments Clearing and Settlement (pacs), Payments Initiation (pain) and XML messages. We identify and prioritize test cases and models to support the complexities of testing SEPA.

### SEPA expertise from the start

Our workbench is built using the latest European Payments Council framework and is exclusively based on the SEPA

schemes rulebook, implementation guideline, SEPA data model and UNIFI XML standard. Business models for the workbench are built using a requirement center tool and our model based testing approach.

### Differentiators

**Ready to Use Artifacts:** Capgemini's repository of test cases can be easily reused.

**Flexible Model:** Our workbench supports quick customization which minimizes the efforts for SEPA testing.

**Complete Coverage:** Our accelerator covers the entire landscape of SEPA direct debit and SEPA credit transfer.

**Multi-directional Traceability:** Our accelerator links product requirements to use cases, graphic user interface, test scenarios, test cases and test data.

**Knowledge Enabler:** The workflow used in our accelerators help business analysts, program managers and test managers understand the business workflow.

## Testing Stages for SEPA Workbench Implementation

### Creating the SEPA Project



- Understand and define business requirements
- Identify the different requirement types
- Understand and verify business processes
- Work with objects in business processes
- Connect and align business processes
- Create the different models
- Identify the sub-models
- Link the models and sub-models
- Identify the different business actors
- Connect the actors with the models
- Identify the pre-condition and post-condition
- Add the use cases steps
- Hyperlink the use cases
- Identify the different dataset
- Include the dataset in the model
- Manage the relationship
- Work with data operators
- Design screen shots
- Link UI mockup to steps
- Identify the required comments in the UI mockups

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

**Our proven approach ensures quality testing and results**

- Benchmarking the test maturity of your organization against the industry standard using our Quality Blueprint benchmarking data
- Defining a roadmap for success to deliver actionable plans that focus effort and value on business priorities
- Leveraging industry best practice accelerators and our Innovation Labs tools to reduce costs and improve productivity

**Improved test coverage and quality**

Capgemini follows a rigorous, systematic approach to testing which helps improve test coverage and quality. Our TMap® and TPI® methodologies provide guidelines for test management and process improvement that help to ensure every Capgemini testing engagement supports improved outcomes. By using a model based testing approach, we provide more test coverage than traditional testing methods.

How the SEPA Model Based Testing Workbench can solve your business challenges	
The Problem	Capgemni's Solution
Implementing SEPA Workbench for the first time	A ready-to-test framework in compliance with regulations including business and test scenarios
Customizing an existing workbench	Our accelerator supports customization where changes in the workbench can be easily extracted
Enhancing your existing application and impact on functional area	Our model is designed to cover the entire SEPA landscape which enables us to plug and play different business models to ensure quick modification of the workbench for enhancements and functional changes with minimum efforts
Planning a multiple country rollout	Our accelerator provides repeatable framework which helps to build workbench for multiple countries with minimum customization



“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 targeted to financial services applications such as Guidewire, Calypso, SWIFT and VisionPLUS.”

**Govind Muthukrishnan**

Vice President and Global Financial Services Testing Leader

For more information about our SEPA Model Based Testing Workbench solutions, contact us at [fstesting@capgemini.com](mailto:fstesting@capgemini.com) or visit [www.capgemini.com/fstesting](http://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](http://www.capgemini.com/financialservices)

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