

## Case Study

# Automated integration testing for banking services



Having operations in 29 countries, the bank's business encompassed offerings and services in retail and consumer segments. Overheads in handling customer response management made the management start thinking about bringing in services online, without affecting the core banking operations.

## BUSINESS CHALLENGES

- Convert the bank's IRIS Web Service to become more engagement friendly. Enable seamless online and offline communication with the bank by bringing in service virtualization at all levels of customer touchpoint.
- Address the virtualization of MYSIS, a banking networking architecture. The bank wanted to address customer requirements at different levels using virtualization in such a way that it doesn't compromise the company's existing modular network architecture.

## OUR APPROACH

### Automating request and response management

Bringing in virtualization of the bank's IRIS Web Service and MYSIS (a network service) was effected by identifying the parameters of response management and categorizing them. This enabled the client to test various scenarios and also effect seamless interaction with the customers. With the help of parameterized stubs, the bank was no longer dependent on servers to perform testing of use case scenarios.

### Virtualization of customer-client networking

We successfully virtualized MYSIS, running on TCP/IP protocol ISO8583 variant. To enable us to streamline the process, we created a DFDL schema to support the customized/proprietary fixed length messaging format. We then instituted automated integration testing to ensure complete compliance. We delivered to the client virtualized components that replaced the need of systems or servers running in the background.

## RESULTS

- Virtualization helped reduce issues relating to managing services and products.
- Dependence on legacy systems was reduced with component virtualization.
- Automated integration testing helped to identify issues in real-time and address them efficiently.

### Tools Used

Rational Integration Tester V 8.7

Rational Test Control Panel V 8.7

Rational Test Virtualization Server V 8.7

### Key Takeways

- Parameterized stubs helped in streamlining the transition to the virtual environment
- Automated integration testing used recorded events to responded to instances in real-time