



Improve the service quality of your ATM & CDM channel with the revolutionary SIM QA (automatic regression tester).

Do you believe that quality should be the cornerstone of your brand value?

Do you believe that test analysis and knowledge should be captured in a knowledge base rather than being in someone's head?

Do you believe that your ATM & CDM channel must be tested thoroughly every single time to avoid lapses in quality?

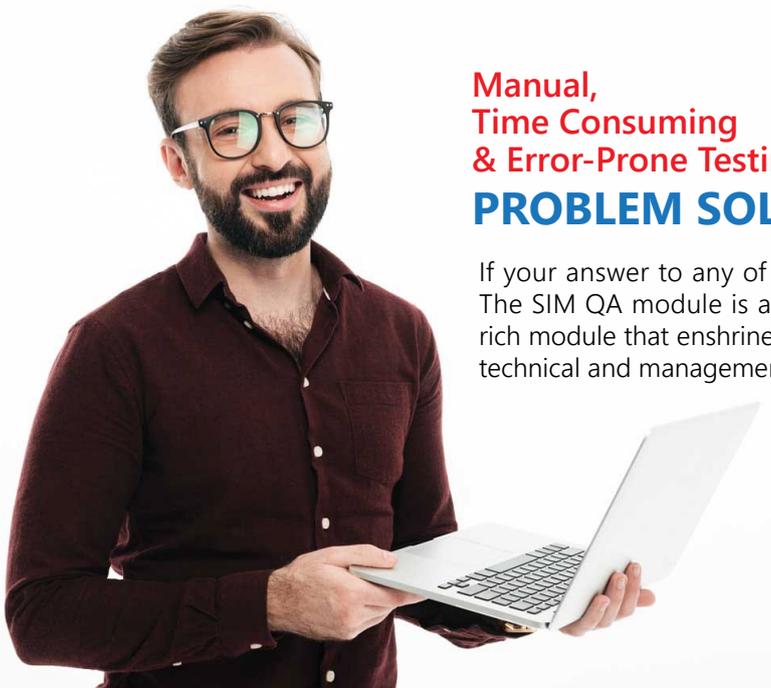
Do you accept that complete regression test cycles should take hours or days rather than weeks or months?



**Manual,  
Time Consuming  
& Error-Prone Testing**  
**PROBLEM SOLVED!**



If your answer to any of the above questions is "yes", you need our SIMQA. The SIM QA module is a process-oriented, workflow-based and functionally rich module that enshrines all aspects of the QA process, including operational, technical and management considerations.



## Workflow-based test design, automated testing & analysis

Traditionally the most challenging, demanding and time-consuming part of any regression testing activity has been the laborious testing and analysis of test results to determine if the transaction has passed or failed. In the case of failed transactions, considerable expertise is required from the tester to identify the cause of failure, which may require manually parsing messages against the specifications to check values field by field.

**Multiple Views:**  
 - Test Level                      - Message Level  
 - Transaction Level           - Field Level

Name	Vn	Run	Compare	Critical	Classification	Expected	Format	Mandatory / Optional
Test-Demo		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
SIT Testing		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
English-Trans		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
baling-rcpt-eng	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
TransactionRequest		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ATM	1	1	M
Message Class		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ATM	1	1	M
Message Sub-Class		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ATM	450	3 or 9	M
Logical Unit Number (LUNO)		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ATM	1	1	M
Top of Receipt Transaction Flag		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ATM	1	1	M
Message Co-Ordination Number		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ATM	3	1	M
Track 2 Data		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ATM	;8887779001010010=10122011143878089?	Var(39)	Note 1
Operation Code Data		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ATM	AIC	8	Note 1
PIN Buffer		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ATM	7:757:9<?115;70=	Var(32)	Note 1
TransactionReply		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
ReadyState		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Message Class		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ATM	2		
Message Sub-Class		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ATM	2		
Logical Unit Number (LUNO)		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ATM	450		
Status Descriptor		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ATM	9		
baling-no-rcpt-eng	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
TransactionRequest		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
TransactionReply		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
ReadyState		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
fast-cash100-rcpt-eng	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
TransactionRequest		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
TransactionReply		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
ReadyState		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
fast-cash500-norcpt-eng2	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
TransactionRequest		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
TransactionReply		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
ReadyState		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
cash-dep400	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Arabic-Trans		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
baling-rcpt-rus	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
fast-cash1000-rcpt-rus	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				

The SIM QA module streamlines this process by enabling the tester to baseline all the test cases and test results of a given test cycle which is then used for automatic comparison and reporting of future test cycle results. SIM QA then produces automated visual reports, comparing the latest test results against the baseline results and highlights transactions that have passed or failed by means of the field by field comparison of requests and responses. SIM QA includes built-in workflows which control the order in which individual functions or operations can be performed.

More importantly, in cases of failures, the cause of the problem is instantly pinpointed and visually presented to the user as a green tick mark or a red cross indicator. The product includes "Baseline" and "Test" users and operational modes to separate the function of defining the test plans/hierarchies, test cases and pass/fail criteria from the execution of the test cycles.

P72\_demo\_rus.ncr.sim - SIMplicity + SIMTools

Demo-Regression-Test.txl - SIM QA

Operation Mode: Test

Test Mode

Automatic Test Run Iteration Counts

Indicates Failures & Warnings at Field Level

Automatic Analysis & Results:

- ✓ Pass
- ✗ Fail
- ⚠ Warning
- ? Not tested/Not verified

Multiple Test Phases or Levels

Name	Run	Result	Classification	Timestamp	Expected	Actual
Test-Demo		✗		11/8/2020 1:50:23 PM		
SIT Testing		✗		11/8/2020 1:50:23 PM		
English-Trans		✗		11/24/2020 12:11:55 PM		
baling-rcpt-eng	2	✗		11/8/2020 1:50:23 PM		
TransactionRequest		✗	ATM		1	1
Message Class		✗	ATM		1	1
Message Sub-Class		✗	ATM		450	450
Logical Unit Number (LUNO)		✗	ATM		1	1
Top of Receipt Transaction Flag		✗	ATM		1	1
Message Co-Ordination Number		✗	ATM		3	6
Track 2 Data		✗	ATM		;	;
Operation Code Data		✗	ATM		8887779001010010=10122011143878089?	8887779001010010=10122011143878089?
PIN Buffer		✗	ATM		AIC	AIC
TransactionReply		⚠	ATM		7;7579<?115,70=	7;7579<?115,70=
ReadyState		⚠	ATM			
Message Class		✓	ATM		2	2
Message Sub-Class		✓	ATM		2	2
Logical Unit Number (LUNO)		✓	ATM		450	450
Status Descriptor		✓	ATM		9	9
baling-no-rcpt-eng	1	✓				
TransactionRequest		✓				
TransactionReply		✓				
ReadyState		⚠				
fast-cash100-rcpt-eng	1	✓				
TransactionRequest		✓				
TransactionReply		⚠				
ReadyState		⚠				
fast-cash500-norcpt-eng2	1	✓				
TransactionRequest		✓				
TransactionReply		⚠				
ReadyState		⚠				
cash-dep400	0	?				
Arabic-Trans	0	?				
baling-rcpt-rus	0	?				
fast-cash1000-rcpt-rus	0	?				

## Instant QA Graphs & Reports

### Regression Test Dashboard

Username: r  
 Timestamp: Tuesday, November 26, 2020 3:14 PM  
 Generate Location: C:\Program Files\Abbrevia\Dashboard.html

#### Regression Test Suite Status

See the Big Picture Progress at a Glance

#### Regression Test Results

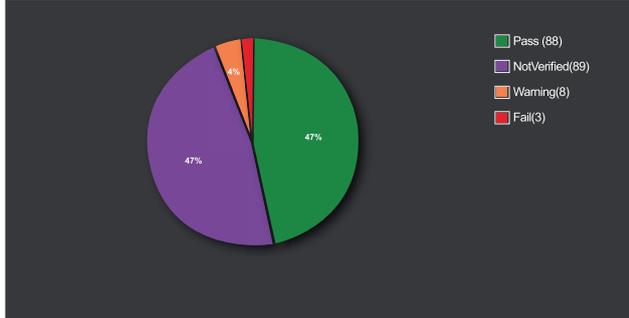
Track Progress at test Phase Level

Test Level	Result	Not Tested	Passed	Failed	Totals
Demo-Test-Project	Fail	0	0	0	0
Demo-Test-Project -> SIT Testing	Fail	0	0	0	0
Demo-Test-Project -> SIT Testing -> English-Trans	Fail	1	2	2	5
Demo-Test-Project -> SIT Testing -> Arabic-Trans	Not Tested	2	0	0	2
<b>Totals (No. Of Test Levels: 4)</b>		<b>3</b>	<b>2</b>	<b>2</b>	<b>7</b>

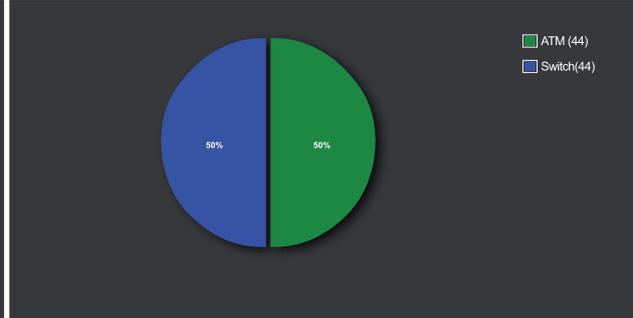
## Regression Test Reports

Username: r  
Timestamp: Tuesday, November 26, 2020 3:15 PM  
Generate Location: C:\Program Files\Abbrevia\Dashboard\_details.html

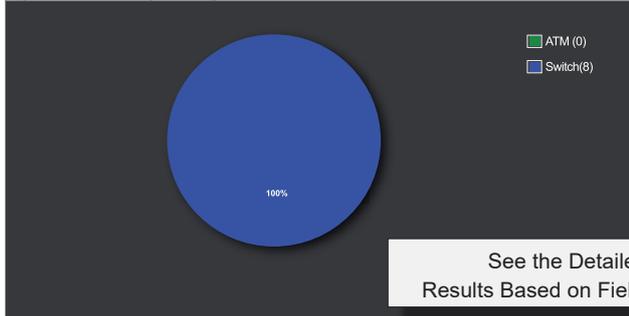
Regression Test Summary - All Categories



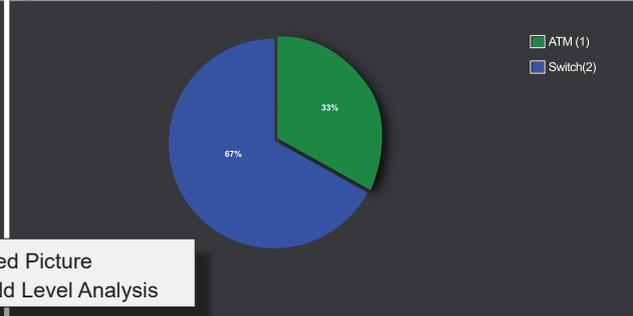
Regression Test Summary - Pass



Regression Test Summary - Warning



Regression Test Summary - Failure



See the Detailed Picture  
Results Based on Field Level Analysis

## Key Features

- Record test cases
- Baseline expected test results
- Automatically manage test case versions based on ongoing changes
- Store multiple test cases in transaction lists to create required test phases or scenarios
- Easy execution of individual test scripts or transaction lists
- Capture actual test results
- Compare expected & actual test results
- Highlight the exact mismatched fields in failed cases
- Provides the details of incompatible fields
- Automatically track the number of iterations when tests are repeated
- Automated detailed technical and business reports documenting step-by-step execution of the test transaction, including all user actions (keys pressed, actions taken etc.) and all output (journal and receipt copies)
- Management level dashboard graphs covering overall percentage completion and test status for each test level or hierarchy

## About Abbrevia

Abbrevia is an innovative provider of leading-edge payments test automation platform for banks and third-party processors with global customer base.

We realise that today's payments strategies focus on flexibility and technology to meet the challenges of the ever-changing business environment by cultivating an innovative, efficient, customer oriented and quality conscious culture.

Our pioneering test automation platform, SIMplicity™, enables our customers to automate their complete testing processes yielding immediate productivity gains, improved quality, reduced costs and faster time to market for new services.

*We help our customers to help themselves.*

## Our Products

- **SIMplicity™ ATM** - Simulates any ATM type for automated and unattended testing of any ATM Switch with record and replay facility
- **SIMplicity™ XFS** - CEN/XFS compliant product that simulates any ATM device for testing of ATM applications such as Apra, Agilis, Procash, Vista, TellMe, etc.
- **SIMplicity™ Network** - Simulates any POS device, any host and all ICS interfaces such as Visa, MasterCard, Amex, CUP, JCB, etc.
- **SIMstress** - for stress and volume testing at desired TPS for transaction peak time management, capacity planning and identification of problems and bottlenecks

## Our Services

We have proven experience in providing EMV project management, technical implementation, test and certification services covering all aspects of the EMV processing value chain including:

- ATM/POS terminal interfaces, acquiring / issuing host interfaces, national and regional network interfaces
- Project management and execution of ICS EMV project planning and processes for banks and national networks
- Technical support for configuration, testing, analysis and certification of ATM and POS acquiring
- Network interface certifications including Visa SMS, Visa Basel, MasterCard MDS, MasterCard CIS and MasterCard Network Interface Validation NIV

## Partners and Clients



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