



SIMPLICITY™ Network

Abbrevia's SIMplicity™ Network is a comprehensive Test Automation Platform that simulates any one or more of various elements of payments' environment such as Cards, Terminals, Acquirers, Networks (both ICS and local) and Issuers. SIMplicity™ Network supports ISO8583, ISO 20022, QR Code, REST/JSON APIs as well as many international and national card schemes.

SIMplicity™ Network provides a user-friendly interface that records and replays hundreds of test cases with ease and at will. It produces automatic detailed technical and management reports for auto-comparison of the current and previous test results during regression testing.

Gone are the days of referring to ISO manuals, ICS interface specifications, EMV documents and cryptographic reference material. SIMplicity™ Network encapsulates thousands of pages of technical knowledge which is put to intelligent use in preparing comparison reports at message request/response levels, field level, byte and even bit levels to pinpoint problems and mismatches between actual and expected test results.

SIMplicity™ Network reduces months of tedious manual testing effort to matter of minutes. It is time to automate.



Certification Body Process Design and Workflow

SIMplicity™ Network allows any Certification Body to design and implement its own processes relating to the number of stages required during a certification process of its member banks. Member banks are provided access to the SIMplicity™ Network portal by the Certification Body to certify before connecting to the production network. Furthermore, the Certification Body can add any number of actions and steps that either itself or the member bank must fulfil during the certification process. In brief, a typical process may be as follows:

1. Certification Body (CB) provides their Member Bank (MB) with access and login credentials to the portal
2. MB logs in to the portal
3. MB selects one or more of the certification services available via the portal.
4. CB is notified by the portal of a pending certification(s) request(s)
5. CB accepts, postpones or rejects the request(s)
6. If the CB accepts MB's request, then CB assigns a Test Case Package relevant to the requested certification along with a set of virtual test cards and sets a time window for the MB to conduct its certification test cases
7. Once the test cases are executed, the "Approver" at MB reviews the test results, approves or rejects them.
 - a. If the MB's approver approves the test results, then the CB is informed via the portal that certain test case packages have been approved by the MB and the results are available for CB to review.
 - b. If Rejected, the tester at MB is notified as such. MB may repeat the test cases. SIMplicity™ Network will tell the tester which transaction(s) caused the failure, whether the failure was in the request message or response message, and indeed which field in the message was the cause of the failure. This is done automatically by SIMplicity Network by comparing the "Actual Results" to the "Expected Results".
8. In the case of 7.a the CB reviews the results, and if approved, a "Certificate" is issued to the MB. If rejected, the portal informs MB to repeat the test cycle.

Benefits of Test Automation with SIMplicity™ Network

Deployment of SIMplicity™ Network increases overall host system efficiency and ensures robust quality. Owing to the quick implementation of SIMplicity™ Network and its ease of use, along with its flexible features, significant time is saved during testing phases of even the most intricate and complex systems.

It is therefore no surprise that implementation of SIMplicity™ Network delivers many a benefit to the banks, both large and small, which is predominantly due to a sharp drop in the amount of time required to run tests. Furthermore, automation of testing with SIMplicity™ Network contributes to a higher quality of work thereby decreasing the necessity for fixing software glitches after release and as such reduces costs.

Some of the most important benefits of SIMplicity™ Network are:

- Record and replay (SIM QA Auto Regression Tester)
- Unattended Testing
- Hundreds of Test cases in Minutes
- Skim and Use Virtual Cards
- Comprehensive Test Coverage
- Automatic Documentation

Supported Card Schemes:

- Visa International
- MasterCard
- American Express
- Diners
- Bahrain (Benefits)
- Egypt (EBC)
- Jordan (FIS Cortex)
- Lebanon (FIS)
- Oman (OmanNet)
- Qatar (NAPS)
- Palestine (SmartVista HOST2HOST)
- Saudi Arabia (MADA)
- United Arab Emirates (UAE Switch)

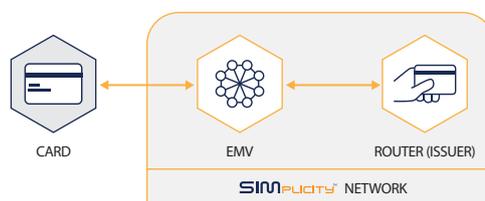
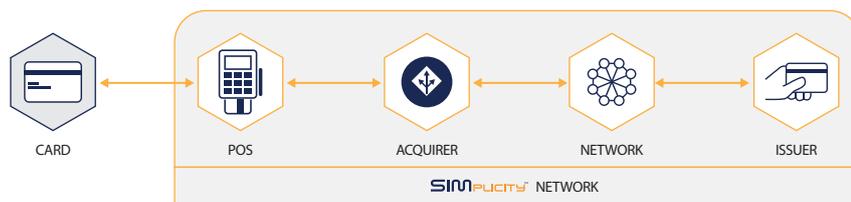
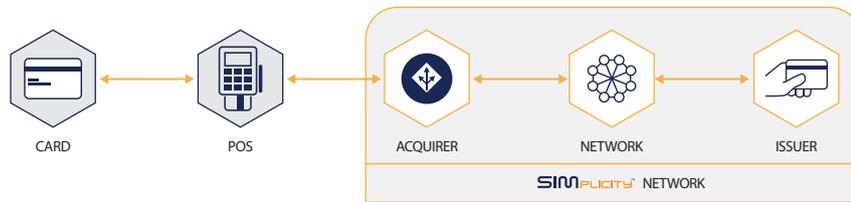
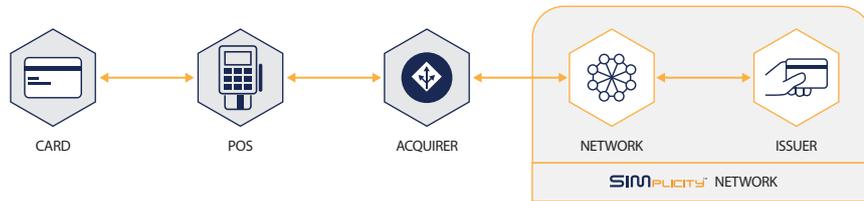
Technical Features of SIMplicity™ Network

Technical Features of SIMplicity™ Network include the following:

- Configurable Certification Body Work Process Flow
- Transaction generator and EMV Level 2 Kernel
- Built-in Cryptographic Engine
- Full Internal Card Management System
- Terminal Certification and Verification
- Simulates both Issuers and Acquirers
- Card Validation
- ISO Message MAC Configuration
- ARQC and ARPC generation and validation
- ISO Message-level and Bit-level Configurator
- ISO 20022 Support
- REST/JSON API Support
- Payment QR Code (Customer/Merchant) Support
- Contactless EMV Transactions
- Message Switching
- On-the-fly override of Request and Response Messages
- Works in Send and Receive Modes
- Simulates Any Host
- Detailed Transaction Analysis and Logging

One Solution; Numerous Deployment Modes

SIMplicity™ Network is capable of simultaneous simulation of any one or more of payments network elements.



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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