



PARAGON

APPLICATION SYSTEMS

Precision Testing for ePayment Reliability

Your dynamic transaction environment requires constant testing. New payment instruments, mergers, restructuring, mandates and new systems all put pressure on electronic payment (ePayment systems). Add to that the demands of ensuring that ePayment systems perform consistently, and are delivered on-time and within budget.

Since 1994, Paragon Application Systems has helped financial institutions test the integrity of their payment systems. Today, Paragon is the leading provider of desktop ePayment simulation, configuration and testing solutions, to financial institutions worldwide.

More than 450 companies in over 80 countries use Paragon products to:

- Simulate more than 80 ISO, POS and other interfaces including STAR, PLUS, Visa, Discover and MasterCard for unit and regression testing
- Conduct pre-certification testing with switches
- Build scripts to test the logic used to capture fraud
- Accurately develop and test ATM configurations from their desktop
- Verify ATM operation with host software
- Generate and validate settlement records
- Test EMV and contactless message processing
- Measure system capacity and performance
- Verify disaster recovery with comprehensive stress testing

Paragon's Customers include:

- 7 of the top 10 US Banks
- 6 of the top US ATM deployers
- 2 of the largest Global Merchant Acquirers
- 3 of the top 5 Credit Unions
- 4 of the top 5 FinTech 100 Companies
- 2 of the top 3 International Card Networks

Some representative Paragon customers include **switches** such as NYCE, STAR, Knet and Shazam; **processors** such as eFunds, élan Financial Services, Metavante, TSYS, Multicarta, and Fiserv; **banks** such as BB&T Corporation, Royal Bank of Scotland, US Bank, Chase and Citibank; and **leading software providers** such as ACI Worldwide, CSF International, Postilion and LynxGate.

Just as these users have, you can use Paragon tools to improve your testing efficiency, to ensure that your systems are reliable, and to deliver error-free code on time and within budget.

Paragon Solutions

Device Testing

Function Testing

Regression Testing

Stress Testing

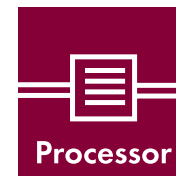
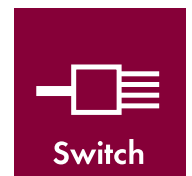
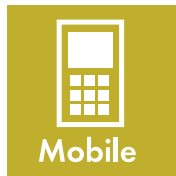
ATMulator+

WEB **FASTest**
FASTest

FASTress

FILEgen

Standard Electronic Message Formats ISO 8583, XML, EMV, POS, NDC, 91X



What our Customers say about Paragon

Bruce Hopkins

Division President,
Acquiring Solutions
Metavante Corp.

"We have always been very pleased with the level of support we receive from Paragon. The support team is flexible, knowledgeable, easy to work with, and shows a genuine interest in helping us resolve whatever issue we might have. The excellent post-sales support is a major reason that we continue to purchase additional products from Paragon."

Heather Jones

Director, Systems Quality
Assurance
First Data

"Paragon's easy-to-use, reliable products consistently deliver quality results for us. We appreciate Paragon's exceptional customer service and ability to quickly deliver new functionality and new products. Our relationship with Paragon is excellent and we look forward to the expansion of Paragon products to other sites."

Bill Kickel

Core Banking Portfolio Application
Architect
National City

"Paragon was willing to learn our needs and do things that were not right out of the box to help us get started. Paragon's FASTest has saved us countless hours and made the drudgery of acceptance testing almost fun."

Rick DuVall

Sr. Strategic Alliance Manager
ACI Worldwide

"Many ACI technicians and customers find Paragon's products invaluable for use during testing. When a company consistently provides solid products, stays involved in the industry, and offers exceptional customer service as Paragon does, it's not surprising when it is successful."

Paragon Testing Solutions

ATM Simulation, Configuration and Testing

ATMulator Plus™

Increase productivity and improve quality through realistic ATM simulation, including all states, screens and flows. Quickly, easily create configurations (ATM images or “load files”) and simulate the entire transaction flow from your PC—without ATMs, test cards, or lab time.

ConfigBuilder™

Quickly customize your ATM screens with text, graphics (including GIF, JPG and MPEG), audio, and multiple languages. Accelerate time to market for new services including envelope-free deposits, multi-currency dispense and EMV.

ConfigBuilder LX™

Easily change ATM screens with text, graphics, animation, multiple languages and more using Paragon’s simplified ATM configuration utility for LynxGate CAT users.



Function and Regression Testing of over 80 ISO 8583, POS, ATM and IFX Message Formats

FASTest™

Accelerate testing for EFT switches, credit or debit card processors, POS devices, ATMs, or your host application with FASTest, which currently supports testing of over 80 financial message formats.

Web FASTest™

Conduct comprehensive, on-demand testing worldwide, 24/7 through your Intranet using the only centralized, Internet-accessed test tool, Web FASTest.

FILEgen™

Rapidly generate Reconciliation, End of Day, Clearing and Settlement, and Risk Assessment batch files from your online test results with FILEgen. Integration with FASTest allows FILEgen to combine online test data with offline batch data to create test files that can be edited and exported into to your batch processing system—reducing Back Office implementation time for new features and mandates.



ePayment System Stress Testing

FASTress™

Conduct conclusive performance testing with FASTress. Stress test your entire network without using a single terminal or POS device—and without scheduling switch time. Simultaneously emulate hundreds of ATM types, POS devices, card processor interfaces and switches. Test communications bandwidth, evaluate device handling, and verify system capacity.





Professional Services

Implementing changes to your ePayment systems requires thorough and detailed testing. Paragon provides advanced tools to help you accomplish these tasks —plus the expertise to help you address your ePayment challenges.

At Paragon, we combine years of industry experience with the latest ideas in ePayment simulation, testing and QA. Paragon Professional Service Specialists are certified by the International Software Testing Qualifications Board (ISTQB) and have in-depth experience with financial transactions and best testing practices at the host, switch, and device level. They are ready to help you with product installation, training, optimizing testing, and specific ePayment challenges such as implementing EMV or instituting Best Practices for QA.

Training

We base our success on your success. That's why we offer comprehensive product training to help you use our applications to their fullest potential.

In the interactive product training sessions, customers learn how to fully utilize Paragon's software tools to address their specific ePayment configuration and transaction testing requirements.

Support

Superior customer support is a cornerstone of Paragon's reputation. We know that you rely on your Paragon tools and need your issues addressed quickly and thoroughly. Our support team has an in-depth understanding of ePayment systems with expertise in more than 80 financial transaction message formats, so we can address your needs quickly.

Paragon offers customer support services via our Web help desk, e-mail and telephone from our headquarters in North Carolina and through distributors worldwide.