



## Keep Your System Migration Headed in the Right Direction

### Need help with your migration project?

#### We offer:

**System analysis** to determine what components you have and what you might need

**System evaluation and benchmarking** to accurately measure performance changes

**Project management** to help set project goals and time lines, and negotiate roadblocks

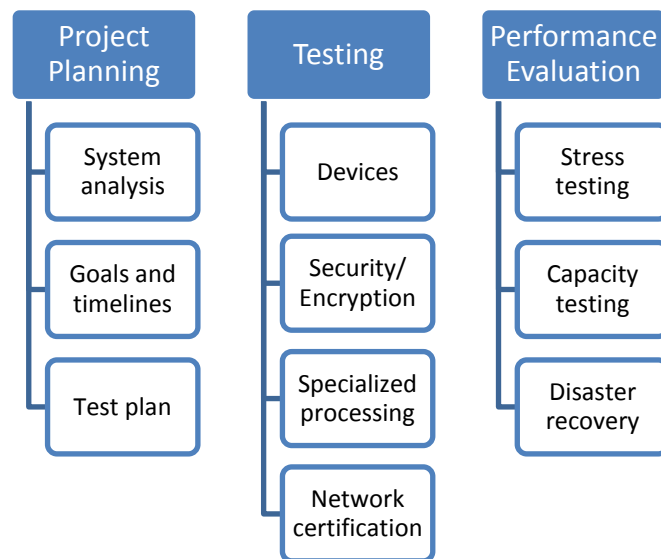
**Financial message experts to supplement your staff** and convert ATM configurations, confirm BIN routing, convert customized data files and more

**Testing, testing, testing!** Solutions and staff to test:

- Network interfaces, pre-certification
- System logons, message security, key encryption, 3DES, PIN validation
- Message routing, message matching, reversal processing, batch processing, settlement—even EMV
- Stress testing, failover testing, load capacity testing,

System migration can take many forms. Your organization may be migrating from one application platform to another, upgrading core software, updating your system hardware, or migrating from one type of database to another.

**Whatever your migration project, Paragon can help.** Whether you need assistance with a very specific aspect of your project, or are seeking a trusted partner to take you from project planning to post-migration evaluation, Paragon offers the level of support you need.



**Payments systems are our specialty.** We understand host platforms and HSMs. We know ATM device handlers and the intricacies of configurations, screens, states, and transaction flows. We are experts in simulating and testing POS device handlers. We know EMV processing. We have analyzed specifications from – and developed automated testing for –every card association and major financial network and switch. Over more than 15 years, we’ve developed simulators and test cases for 100 different message formats. We bring the right tools and skill set for your migration project.



## How Paragon Can Help

Your migration project will have its own set of unique goals, variables, and contingencies. There is no single task list that meets the requirements of *every* project. The following topics illustrate some of the ways Paragon can assist with your migration project, but ultimately our commitment is to do whatever it takes to make your project successful.

### Administrative assistance and analysis

- Review your existing and target platforms to determine what components are affected by the migration, taking into account
  - Communication protocols
  - Processing required (as issuer, acquirer, network participant, etc.)
  - HSMs, encryption
  - Device handlers (ATM and POS)
  - Card schemes supported (for example, VISA, MasterCard, American Express),
- Work with you to establish project goals and timelines, considering factors such as resource availability, business goals, compliance deadlines, withdrawal of hardware/software support, etc.

### Technical assistance

- Convert ATM configurations
- Convert production data files (standard and customized)
- Confirm proper BIN routing and priority BIN routing

### Testing before, during, and after the project

- Conduct base line performance testing. Review results and recommend changes.
- Establish an integration test plan to verify new and modified functions
- Establish a regression test plan to verify pre-existing functions
- Develop test cases for specialized processing, such as EMV
- Examine and test message processing, including
  - Message types (ATM, POS, or other formats, including EMV)
  - Message routing
  - Message matching
  - Reversal processing
  - Batch processing
- Test system logons
- Test message security/data encryption, including
  - Key encryption
  - PIN validation, encryption types, and lengths
  - Use of static or dynamic keys
  - Single DES or 3DES encryption
- Test settlement processing
- Conduct pre-certification testing
- Test error recovery processing
- Load-test systems for capacity planning
- Conduct disaster recovery testing
- Verify and document test results
- Submit test results and analysis for final approval

## About Paragon Application Systems

Paragon Application Systems is a leading global provider of ePayment simulation, configuration and testing software solutions to the financial industry. More than 450 financial institutions in over 80 countries use Paragon tools to improve quality and reduce time-to-market. Paragon's broad customer base includes major interchanges, merchant acquirers, processors, leading software providers, banks and credit unions.

Paragon Professional Services Specialists draw from extensive hands-on experience with a number of systems. This allows us to offer your organization a specialist who is uniquely qualified to meet your needs. Visit Paragon Application Systems at [www.paragonedge.com](http://www.paragonedge.com) or email [info@paragonedge.com](mailto:info@paragonedge.com).