

# ATMulator™

## Add-On to ConfigBuilder™

### *Simulate NCR, Diebold, and Wincor ATMs Directly from Your PC*

Change is constant in a thriving ATM environment. Perhaps you are acquiring new ATMs, upgrading your fleet to Windows open architecture ATMs, or implementing EMV. Testing early and often is the way to manage these changes. ATMulator makes testing easy by accurately simulating the ATM transaction flow. See your ATM screens on your PC exactly as your customers see them. Interact with the ATM as your customers do —“push” ATM buttons, listen to voice guidance narrative, and simulate host responses. Monitor state flow, review receipts, and document the entire transaction flow, including screen captures.

**Quickly debug, test, and verify your ATM configurations.** Using ATMulator’s capture playback tool, you can record and play back each step of a single transaction. Save time examining the flow sequence and verifying that the state, screen, and FIT entries work together correctly. Likewise, debugging your host application just got easier—ATMulator allows you to navigate through a recorded transaction to reach the desired state quickly.

**Develop and test state-of-the-industry services, including EMV, faster.** ATMulator’s compatibility with new technologies—such as EMV chip card support, multicurrency dispenses, and envelope-free deposits—lets you implement the services your customers want faster than ever before.

**Test a variety of ATM models and configurations without expensive lab hardware.** Use ATMulator’s terminal database to create a virtual Diebold, NCR, or Wincor terminal with any features you need to test. Initiate a transaction by selecting a card from the cards database. Use your mouse and keyboard to “push” buttons at the ATM. As you step through the states and screens, ATMulator constructs a message for the host software and sends it to the terminal-driving software. ATMulator then processes the host response, displays screen and printer data, graphically indicates the ATM actions (such as dispensing currency) and logs the message.

**Easily recreate any ATM fault** using the ATMulator device fault wizard—just point-and-click to reproduce specific faults with no danger of damaging your expensive equipment during ATM testing.

### ATMulator provides:

- **Realistic ATM simulation from your PC** for NCR (NDC+ and Apra Advanced NDC), Diebold (TCS+ and Agilis), & Wincor (NDC and 91x) terminals and more.
- **Automated testing capabilities.** Capture and play back input associated with a single transaction to quickly debug your host application or verify configuration file changes.
- **Testing beyond your lab’s limits.** Quickly develop virtual terminals with any features you need to test.
- **Accelerated time to market for advanced functions like EMV.** Test with virtual EMV chip cards with visibility into internal chip data, including security keys. Test EMV script processing and view results.
- **Documentation of the entire customer interaction,** including screen captures.
- **Support for new ATM display features.** Test customized graphics and video. Add links to URLs and inline HTML.
- **Text-to-speech** audio support for the visually impaired and keyboard mapping.
- **Support for deposit automation** via envelope-free deposits (BNA/cash deposits) and check deposits with check images printed on receipts.
- **Support for multiple currency and non-currency dispenses.**

## Easy-to-Use Interface

Submit simulated transactions to your terminal-driving software using “point and click” operations on a screen that looks exactly like an ATM. You’ll quickly become proficient and productive.

## Complete ATM Simulation

ATMulator provides accurate, comprehensive simulation of both OS/2® and Windows®-based terminals from Diebold, NCR, Wincor, and other terminals that emulate these. Support includes:

- Graphic displays
- Audio support for the visually impaired (text-to-speech, audio guidance, and keyboard mapping)
- Envelope-free deposits (bunch note cash deposits and check deposits)
- Check image on receipt
- Multicurrency dispenses
- EMV chip card support
- Touch screens
- Statement printing
- Other Account Relationships (OAR)
- Dial-up support

## Unlimited Cards and Terminals

Test with a variety of “cards”—without relying on plastics! Use a “swipe” card reader to import test card data (or type your card data) into ATMulator’s card database. You can simulate and test an unlimited variety of terminals using the terminals database wizard to easily create terminals with specific cartridges, currency configurations, and other features.

## Auto Audit

Automatically document the entire transaction flow, complete with thumbnails of ATM screens. Especially useful for fulfilling regulatory requirements, preparing for translation, developing audio narration, and presenting ATM screens for review.

## Encryption

ATMulator fully supports DES encryption and key management, including Triple DES.

## Generating Device Faults

'Point and click' using Paragon's unique device fault wizard to generate any error the ATM can experience. Or simply choose from a list of pre-defined faults or type in the status codes you wish to simulate.

## Configuration Download

ATMulator accepts the download of configuration data from the host allowing you to examine the validity of the configuration information stored at the host as well as its compatibility with the terminal-driving software.

## System Requirements

Microsoft® Windows® 2000, 2003, XP, Vista, or Windows 7; 500 MHz processor (minimum), 700 MHz processor recommended for use with MPEG files or WAV files; 50 MB hard drive disk space (minimum); 256 MB of RAM; 8 MB Video; appropriate communication with the terminal-driving host computer. If you intend to use MPEGs or WAVs, the following are also required: Windows-compatible sound card, Media Player 7.0 or higher (for Windows 2000, 2003, or Vista).

### Notes:

- Paragon solutions are designed for installation on English-language versions of these operating systems only. Installation on non-English versions is not supported.
- Support for EMV chip cards, text-to-speech, cash deposits (BNA) and check deposits are optional features.
- ATMulator is available only as an add-on to ConfigBuilder.

## About Paragon Application Systems

Since 1994, Paragon Application Systems has provided software testing solutions to simulate and test virtually any point in the transaction processing stream. Our high rate of repeat business reflects our expertise and commitment to customer service. We invite you to join the ranks of our satisfied customers.