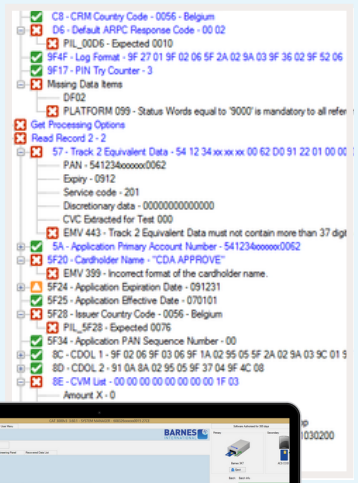
BARNES INTERNATIONAL

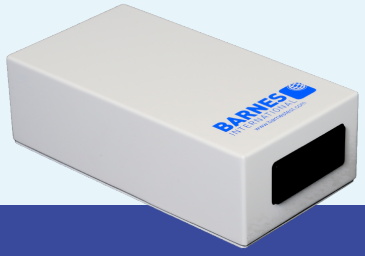
CAT 3000v3CL

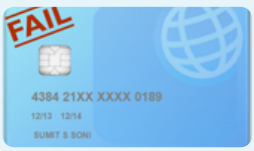
EMV Personalisation Validation Tool + Test Script Development Tool

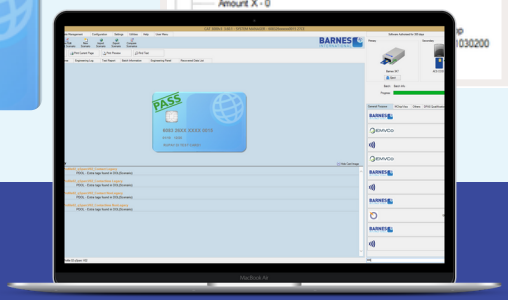
A cost effective, flexible and powerful script driven test development environment for contact & contactless chip apps

The CAT 3000v3CL is ideal for chip card developers, manufacturers and issuers who are looking for a more sophisticated validation tool for propriatory payment and/ or multi-application tests. CAT 3000v3CL users can easily and rapidly develop test suites for a wide variety of chip card applications such as EMV, GSM/3G/4G, Loyalty and E-security. In addition to the test script development capability, this tool is fully compatible with the Barnes EMV Personalisation Validation Test Tool (CPT 3000v3CL) providing a powerful Level 2 test platform whatever the payment application.









Solution Highlights

- Script-based test suites can be run in isolation, or be linked together to perform multi-application tests in a single card insertion; this includes checks to both chip and magnetic strip data.
- An EMV payment application test suite is provided. New test scripts are written in the industry standard TCL scripting language.
- Supports all payment devices: contact and contactless cards, mobile phones, and tokens.
- Developed in collaboration with Visa and Mastercard, and used by Visa, Mastercard, American Express, Discover, JCB, major banks and card bureaus globally.

SUPPORTED SPECIFICATIONS

EMV
EMVCo L3

American Express
ATH
BancNet
BKM Troy
CPA
CPACE
Credibanco
Discover D-PAS
EBC
eftpos
GIE CB
GIMAC
Interac
JCB
mada
Mastercard
MCCS
NCCC
NETS
NSICCS
PayPak
PBOC
Pure
RuPay
UnionPay
Visa
SERMEPA Advantis

THE BARNES ADVANTAGE

Barnes is the chosen test tool of Banks & Issuers, Card Manufacturers, Personalisation Bureaus and Test Laboratories worldwide.

BUSINESS AGILITY
Barnes test tools are easy to use by both technical and non-technical users, and speed up card development and payment scheme certification.

COST ELIMINATION
The high business costs and wasted resources of producing and issuing invalid cards are eliminated.

RISK REDUCTION
The reputational risk of issuing invalid EMV cards to end customers is reduced.

FUTURE PROOFED
Barnes works in partnership with all major payment schemes. As scheme rules evolve, Barnes rapidly makes updated test script packs available to customers via the Barnes website.

SERVICE EXCELLENCE
Our clients have every confidence that, whatever their test requirement, the Barnes team is always on-hand to deliver expert advice and fast support.

FEATURES AND BENEFITS

Multiple Application Tests
In a single card insertion, the tool confirms the data on the chip and magnetic stripe is correct and valid according to the issuer profile. The card account number and issue / expiry dates are displayed for visual verification of the card embossing indent print. Optionally, the card livery can be displayed to verify the correct card stock has been used.

Multi-level User Interface
The tool is designed to be easy to use for both the non-technical operator and at the same time provides detailed technical information for IT and engineering staff. Production control features include User Access Control, Batch Test and Event Logging, which are supplemented with intuitive data element displays for problem solving and data analysis.

Powerful Diagnostic Tools
Data displays include Card Test Result Summary; Detailed Test Result Tree and Full Engineering Log. Hyperlinks between the various levels of displays and directly to the EMV and payment scheme specification references allow the user to quickly identify and diagnose problems.

Industry Standard TCL Scripting Language
The TCL API gives the script programmer full control over the tools extensive facilities, including card operations, user interaction, results displays and log file generation. Example scripts and an extensive library of TCL procedures to perform commonly required chip card testing operations are included. Both the API and the library set are fully documented so that script developers can hit the ground running.

PCI Security
PCI compliant masking, log-out and user controls enable full control of personal cardholder data on screen and in reports.

Adaptable Test Scenarios and Scripts
Users can easily define “QuickTest” profiles to test their own chip data requirements, in line with, or in place of, payment scheme requirements. Test scripts are not restricted to EMV; other types of smart card application can also be tested, for example payment, security and loyalty applications.

Cryptographic Authentication
Static (SDA), Dynamic (DDA) and Combined (CDA) data authentication is fully supported by the tool.RSA algorithms are also supported.

Key Management
Complete with a comprehensive set of Visa, Mastercard, JCB and Discover public keys. Additional keys can be imported through a key management system.

Network Capability
The tool can be used in a networked environment with individualised user access levels and settings.All test scripts, scenarios, standard profiles, public keys and reporting for multiple tools can be managed centrally, ensuring consistency across all units.

Remote Testing
Issuers and scheme authorities can securely evaluate and approve cards remotely, eliminating the costs and delays of sending sample cards around the world.

OPTIONAL SOLUTIONS

EMV PVT for Mobile - CAT 3000v3ML
Validates mobile payment data over NFC plus SWP interfaces.

Host Simulation Module
Adds the ability to verify secret keys either in software or with the optional Hardware Security Module connectivity.

Payment Scheme Certification Test Modules
Allow certification tests to be performed to accelerate payment scheme approval.

TECHNICAL SPECIFICATIONS

Softwares
- OS: Windows 7, 10 &11 (32-bit & 64-bit)

Card Readers
- Barnes 3K7 Triple Interface reader (Mag Stripe, Contact and Contactless chip)
- Contactless card and NFC reader options
- Barnes 3R1 reader is available for reading metal / titanium cards
- Barnes 60H Batch reader
- Barnes 3K3 Card reader (Magnetic Stripe/ JIS Stripe/ Contact Chip)
- PC/SC reader compatible
- SWP reader

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