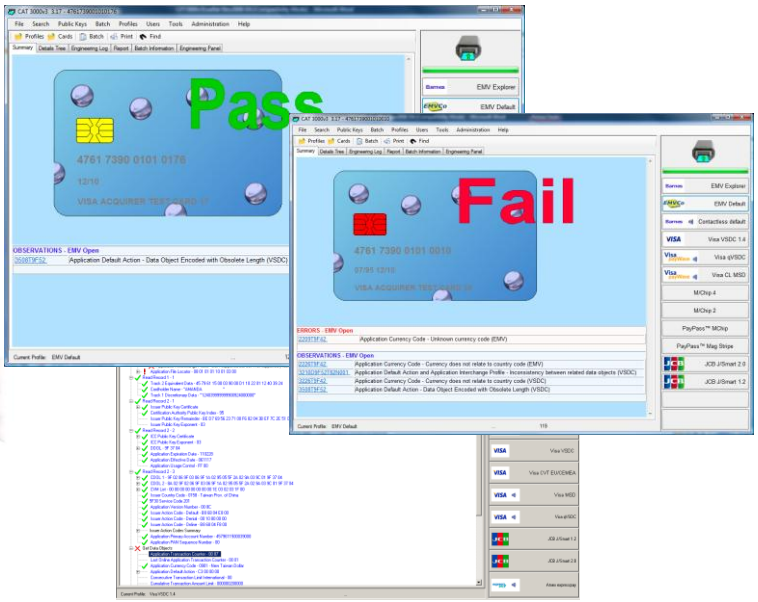
CPT 3000v3

EMV PVT – Contact and Contactless Smart Card Personalisation Validation Tool

Eliminate the wasted resources on EMV card validation rejections
Eliminate the high business costs of invalid EMV cards
Used by Visa, MasterCard, JCB, Amex & Member Banks

Quick and easy EMV PVT testing; Hyperlinked Test Results Display and Reporting. Contact and Contactless Reader Options. EMV, Visa GCCPVR Card Validation Tool, MasterCard CPV 2.0, Amex, JCB, Interac, SERMEPA Advantis and Discover Test suites. Test Script downloads from Barnes Website. PCI DSS & PA-DSS Data Security features.

MOTORISED READER- CONTACT CHIP + MAGSTRIPE



CPT 3000v3CL CONTACTLESS *READER*
(Option of OTI, ViVOpay, etc.)

Validates **data to EMV, CPA, Visa, MasterCard CPV 2.0, Amex, JCB, Discover, ABI, Interac, SERMEPA Advantis, SPAN requirements – to the Specification Text level.**

Confirms **chip, mag-stripe and embossing correlation, identifying incorrect data.**

Contact and Contactless **(Visa payWave Contactless, MasterCard *PayPass*™) chip Certification and Validation tests.**

Multiple Application **test on single card read insertion.**

Multi-level user interface **combines ease of use for Production, QA and Bank personnel with powerful and detailed analysis for Expert and Developer levels.**

Developed **in collaboration with Visa and MasterCard Worldwide, and now in use by Visa, MasterCard, Amex, JCB, major Banks and Card Bureaux worldwide, the CPT3000v3 continues to benefit from the experience gained with these users to meet the needs of the fast changing chip card market.**

User Interface **with user programmable *QuickTest* buttons and fast hyper-linking between reports and screens.**

Report **links errors back to the EMV and payment scheme specification references.**

Network capability **supports centralised script and profile management, remote testing and results reporting.**

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

Memory Chip Card support

MasterCard. Vendor Program 2009 Participant

GLOBALPLATFORM MEMBER

Visa Partner Network Participant

CPT 3000v3 EMV PVT Personalisation Validation Tool

A Barnes EMV Validation Test Platform Tool

The CPT 3000v3 is essential in all EMV chip card issuing, personalisation, implementation and support operations. Chip and mag-stripe data can be quickly checked for conformity to the complex and strict rules laid down by the payment system operators as well as the issuer's own business requirements. **From the inception of EMV migration**, Barnes has provided EMV PVTs to all of the Global issuers and suppliers. The CPT3000v3 benefits from this in depth understanding and experience. All CPT 3000v3 users are kept fully up to date with the latest functionality via the Barnes website.

Designed for ease of use with easy to understand displays and production control features including user access control, batch test and event logging supplemented by **powerful diagnostic functionality** for expert problem solving or data analysis using comprehensive data element displays. **Displays include:** Card Test Result Summary; Full Report identifying faults to actual Specification Requirement texts; Detail Test Result Tree; Detail Full Engineer's Log of each test, etc. **Hyperlinks between the various levels of display** and references back to the source specifications allow quick identification and efficient diagnosis of problems. Easily set up test profiles allow users to define their own chip data requirements in line with, or in place of, the payment scheme operators' rules. User programmable *QuickTest* shortcuts allow quick and easy selection of test profiles.

Both the contact chip and the magnetic stripe are read together in a single operation, confirming correct data match and valid data content according to the issuer profile. The card account number and issue/expiry dates are displayed for visual verification of the card embossing or indent print. Optionally the card livery can also be displayed to verify that the correct card stock has been used. The **contactless option** is able to test contactless cards and ensure that dual interface cards deliver consistent information over both interfaces. **CPT 3000v3 performs all necessary cryptography** to perform data authentication (static and dynamic – SDA/ DDA and CDA). RSA, algorithms are fully supported. CPT 3000v3 ships with a comprehensive set of Visa, MasterCard and JCB public keys and allows the import of additional keys through a simple to use key management facility.

MasterCard Tests. CPV v2.0 module software script pack module to replicate the rigorous MasterCard Worldwide PVT 2.0 Requirements used for Card Certification. Barnes CPV v2.0 module have been fully tested and Qualified by MasterCard Worldwide.

Visa GCCPVR Testing. GCCPVR software script pack to test cards to the Visa Inc Global Chip Card Personalization Validation Requirements. Barnes GCCPVR 1.1 module has been tested & Confirmed by Visa Inc. Included with this module is the **Visa Personalisation Assistant** output to automatically input test profiles.
Visa EU & CEMEA CVT. A Visa CVT test script pack for the CPT 3000v3 enabling Visa issuers to be sure cards are tested to the same validation reports test specification and procedures that **Visa EU & CEMEA** use.

The Barnes EMV Validation Test Platform range meets all requirements and now supports memory chip cards. The **new CPE 3000v3 Viewer/Explorer** extracts and displays EMV card data in a clear and logical manner. The industry standard **CPT 3000v3** EMV PVT offers a comprehensive capability to validate the data against EMV and major payment scheme rules, and the ability to define and set test requirements. The Host Simulation option adds the ability to verify secret keys either in software or with the optional Hardware Security Module connectivity. The full feature **CAT 3000v3** adds the ability to adapt and modify the test scripts and create completely new test suites. Scripts developed on the CAT 3000v3 can also be run on the CPT 3000v3. **The Validation Platform Tools are not inherently tied to EMV**, the flexibility of the test script approach allows use for other types of smart card applications (eg payment, GSM/3G, security, loyalty etc), while the **Multi Application test capability** allows test of any or all of the applications in a single card insertion. **Network Friendly design** allows the CPT 3000v3 to be used in a networked environment with individualised user access levels and settings. Test scripts, profiles and reporting for a number of CPT 3000v3s can be managed centrally, ensuring consistent operation across all units. In addition, the powerful remote testing facility allows issuers and scheme authorities to securely evaluate and approve cards remotely, eliminating the costs and delays inherent in sending sample cards around the world.

Technical. The CPT 3000v3 is a PC peripheral comprising a hybrid (mag-stripe/contact chip) motorised card reader, optional contactless module with card reader and PC/SC capability for a wide range of additional readers plus 32 bit CPT 3000v3 software (Windows® XP, Vista and Windows 7 compatible).

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