

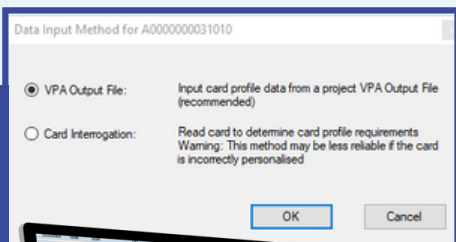
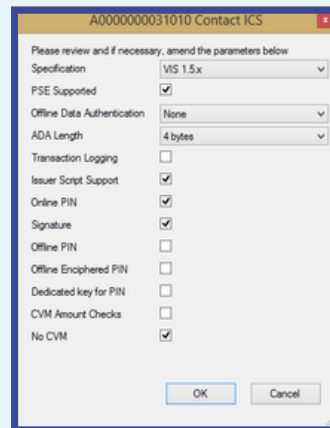


Visa GPR PVT Module for Self-Certification EMV Personalisation Validation Tool

Speeds up Visa certification and reduces the high cost and delay associated with qualification failure

To achieve Visa certification Banks, Card Manufacturers, Personalisation Bureaus and Test Laboratories must ensure their cards comply with Visa's latest Global Personalisation Requirement (GPR) specifications. Obtaining Visa qualification can be a timely and costly process. To reduce the risks of failure, cards can be validated using the Visa GPR PVT Module from Barnes. Approved by Visa, it uses the same detailed and rigorous tests they use to perform qualification tests on cards.

The Visa GPR PVT Module is valid for all regions. However, Self-Certification is only available for the EU market at the moment. This means that once a "Pass" has been achieved, the test report (Visa EU CCRT Report) is sent to Visa EU as evidence that the card is compliant with the Visa Rules and matches the associated Visa Personalization Assistant (VPA) profile, instead of sending the physical card to Visa EU.



Solution Overview



The Visa GPR PVT Module complements the CPT3000v3CL Card Validation Test Tool, resulting in a Chip Compliance Reporting Tool (CCRT). The module runs as integrated scenarios on the CPT3000v3 platform and may co-exist with other modules such as Host Simulation (including HSM), which is required in order to carry out the script processing tests which form part of Visa Certification for Visa International and Asia Pacific regions. The overall PVT test result outcome (PASS or FAIL) is dependent on the outcome of the Template Checking (VPA), the Execution of GPR Test Cases, Execution of VE Addendum Test Cases and Execution of IDS Test Cases.

APPLICABILITY

Product:
Visa Debit/Credit
Electron
PLUS
DPA
Interlink
VPAY
Prepaid
Charge
Visa Fleet
IDS(India NCMC)
Multi-application

Programs:
VSDC
qVSDC
MSD

Test Cases:
Visa GPR 3.0.x A&Cs v4.3
Visa EU Addendum v1.6
Visa India (NCMC) IDS v1.0
Visa US Addendum 2.1

Specifications:
Visa Integrated Circuit Card Specification (VIS)
VIS 1.4.1, VIS 1.5.x, VIS 1.6.x
Visa Contactless Payment Specification (VCPS)
VCPS 1.4.2, VCPS 2.0.1,
VCPS 2.0.2, VCPS 2.1.x
VCPS 2.2.x

Visa Mobile Contactless Payment Specifications (VMCPS)
VMCPS 1.4.x

Visa Applet Versions:
VSDC 2.7.1, 2.8.x & 2.9
Visa Mobile Payment Application : VMPA 1.4.x

Dual Interface Cards



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

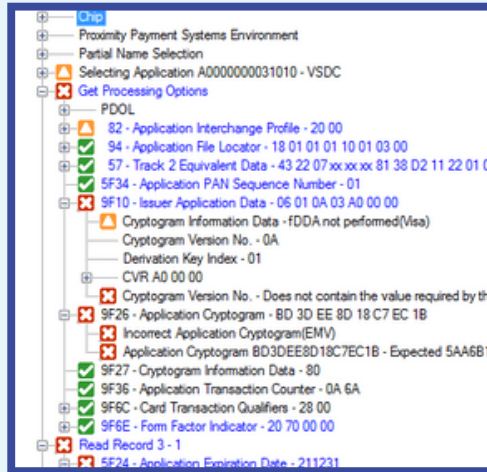
Barnes works in partnership with all major payment schemes. As scheme rules evolve, Barnes rapidly makes updated test script packs available to customers via the Barnes website.

SERVICE EXCELLENCE

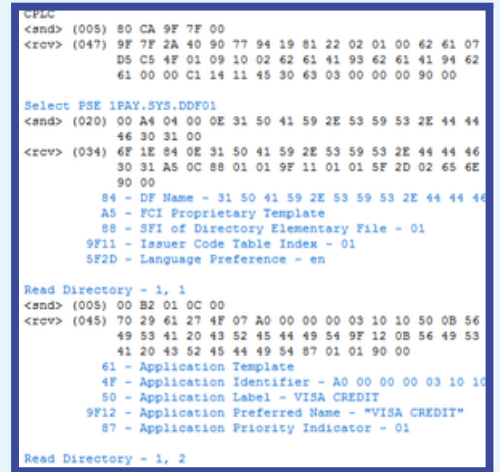
Our clients have every confidence that, whatever their test requirement, the Barnes team is always on-hand to deliver expert advice and fast support.

Tabs provide access to [Details Tree](#), [Engineering Log](#) and [Test Report](#). The detailed Results Tree and Engineering Log enable analysis and clear guidance for all levels of user.

Details Tree



Engineering Log



A full [Test Report](#) detailing the tests carried out and more in-depth detail on the errors, observations and warnings, plus the ICS selection used and a list of all the tests performed.



Contact A000000031010 : Errors
Please see below the errors identified during testing. These errors will need to be resolved before the card can be issued.

DE.12.001.00
5F20 Cardholder Name - To ensure if Cardholder Name is present, its length is correct.

DE.42.001.00
9F1F Track 1 Discretionary Data - To ensure that, if present, Track 1 Discretionary Data is in the correct format.

MS.1.001.00
To ensure the Track 1 is present and formatted correctly.

Contact A000000031010 : Warnings
The following items are not actually errors but are likely to cause problems in the future.

DE.54.002.00
9F56 Issuer Authentication Indicator - To ensure that the Issuer Authentication Indicator (9F56) is not personalized if card is online-only.

SH.3.002.00
9F52 Application Default Action - To ensure Application Default Action (tag 9F52) is set to the recommended value.

Contact A000000031010 : Observations
This section outlines observations made on the card personalisation settings. These observations are used to evaluate whether changes should be made to the card.

DE.2.003.00
9F42 Application Currency Code - To check that the Application Currency Code (9F42) is present when it is not required (if Cardholder Verification Method List conditions are not personalized).

Tests Performed

Contact A000000031010 GPR
Listed below are the test cases allocated for this brand. For details of errors, warnings and observations, see the Test Report. Test cases marked "N/A" were not performed because they were not applicable in this instance.

CV.2.001.00	Pass	CV.2.002.00	Pass
CV.2.004.00	Pass	CV.3.001.00	Pass
CV.7.001.00	N/A	CV.8.001.00	N/A
DA.1.001.00	Pass	DA.2.001.00	Pass
DA.4.001.00	N/A	DA.5.001.00	Pass
DA.7.001.00	N/A	DA.9.001.00	N/A
DA.11.001.00	N/A	DE.1.001.00	Pass
DE.2.003.00	Observation	DE.2.004.00	Pass
DE.3.001.00	Pass	DE.3.002.00	Pass
DE.4.002.00	Pass	DE.5.001.00	Pass
DE.6.001.00	Pass	DE.6.002.00	Pass
DE.6.002.02	N/A	DE.6.002.03	Pass
DE.6.003.01	N/A	DE.7.001.00	N/A
DE.8.001.00	N/A	DE.8.002.01	Pass
DE.9.002.01	Pass	DE.9.002.02	N/A
DE.11.002.00	Pass	DE.11.002.01	N/A
DE.11.002.03	N/A	DE.12.001.00	Pass
DE.13.002.00	N/A	DE.14.001.00	Pass
DE.17.001.00	Pass	DE.17.002.00	Pass
DE.17.004.00	Pass	DE.20.001.00	N/A
DE.20.003.00	N/A	DE.20.004.00	N/A

VPA Data Comparison

Tag	Description	Personalized Value	Expected Value	Validation Result
9F52	Application Default Action	C380000	82081000*	Fail
82	Application Interchange Profile	1C00	1800	Fail
50	Application Label	VISA CREDIT	VISA CREDIT	Pass
87	Application Priority Indicator	01	01	Pass
9F07	Application Usage Control	FF00	FF00	Pass
9F5D	Available Offline Spending Amount	not personalized	01	Fail
8C	CDOL 1	9F02069F03069F1A0295055F2A029A039C019F3704	9F02069F03069F1A0295055F2A029A039C019F3704	Pass
8D	CDOL 2	8A029F02069F03069F1A0295055F2A029A039C019F3704	8A029F02069F03069F1A0295055F2A029A039C019F3704910A	Fail
8E	CVM List	000000000000000020142031E031F00	0000000000000000201013E031F02	Fail
DC319555	Corporate Transaction Counter Limit 1	not personalized	05	Fail

