

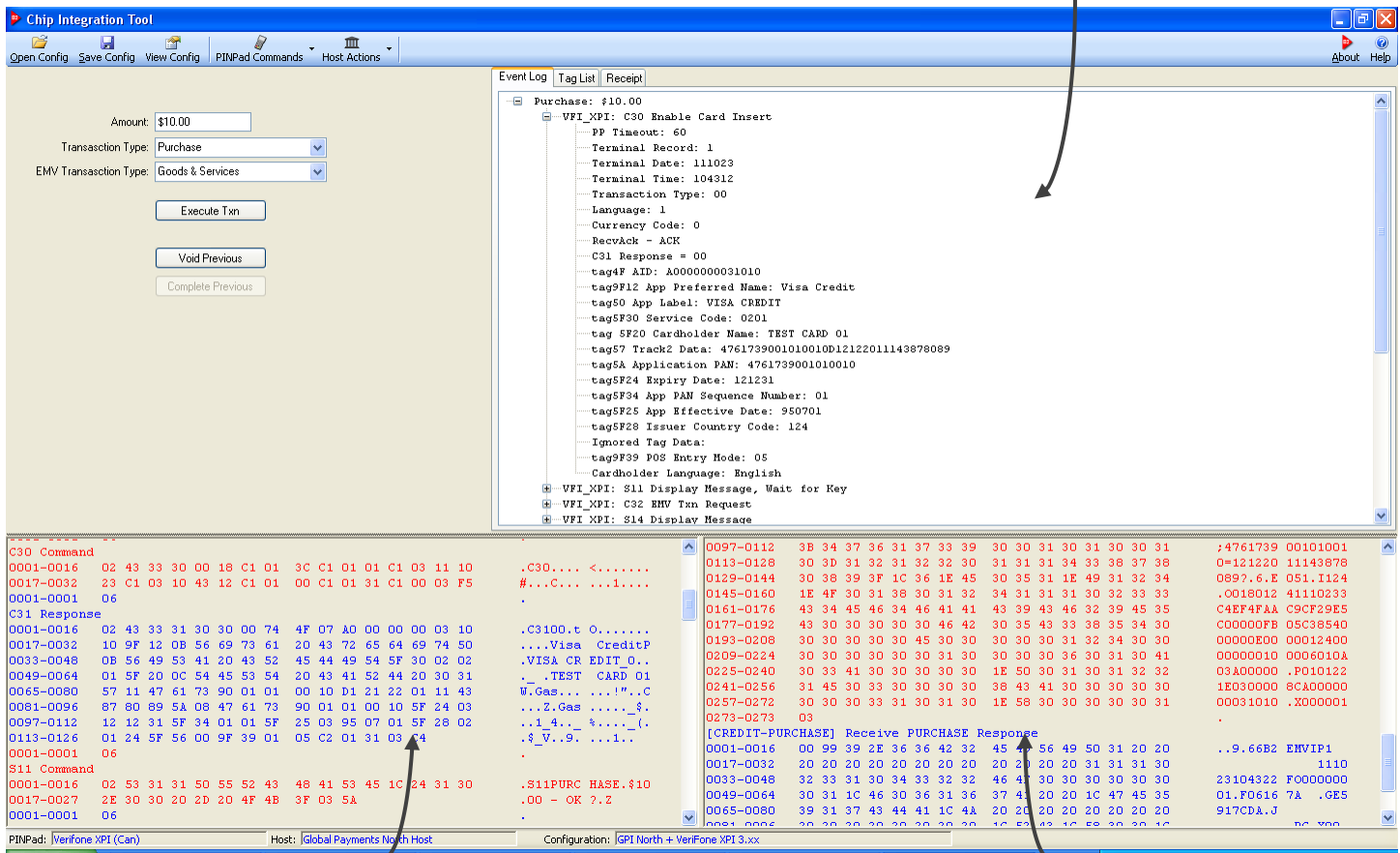
# B2 Chip Integration Tool (CIT)

The B2 Chip Integration Tool (CIT) is a full featured development aid for POS software developers working with Chip & PIN contact and contactless capable PINPads. Providing complete insight into how EMV® transactions are processed, the B2 CIT speeds up your development by providing you with a PINPad trace, a Payment Host trace, a detailed Event Log, Data Element and EMV® Tag list and a Receipt Viewer.

The tool supports the full range of transaction types for Magstripe, EMV® Contact and Contactless as well as PINPad operations (EMV® initialization, PIN Change & Get Serial Number) and Host Admin operations (Key Exchange, Parameter Download & Host Settlement).

CIT's simple interface presents all the relevant transaction information.

The information panel includes an Event Log, Transaction Data Elements (tags) List and a Receipt viewer.



The PINPad trace shows all messages to and from the PINPad, providing insight into the formatting and sequence of commands required for EMV® transactions.

The host trace shows all messages to and from the host, providing insight into the format of the host request as well as Admin requests and reversals.

Bringing together the most difficult aspects of EMV® contact and contactless software development on the POS, the B2 CIT is an extremely valuable tool for POS developers integrating new PINPads or interfacing to new Payment Hosts. The B2 CIT is also a terrific training tool for technical staff designing, developing or testing EMV® projects.

The B2 CIT will shave months off your integration project by removing the uncertainty and risk that comes along with EMV® contact and contactless projects.

**Supported PINPads** include the VeriFone and Ingenico EMV certified devices:

- VeriFone Vx810, Mx800 series, Vx700, SC5000
- Ingenico i3070, ML30, iPP300, i6780

**Supported Payment Hosts** include the following:

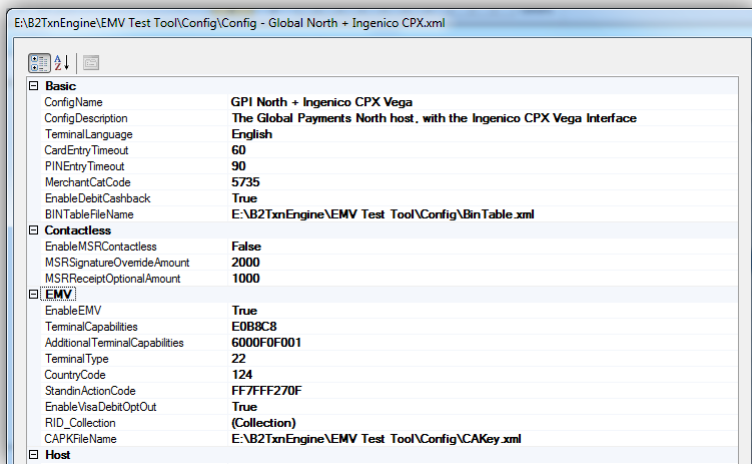
- Global Payments North platform
- Chase Paymentech PNS ISO platform
- B2 CIT Simulated Host

Clearly view all the tags for the current transaction

ID	Name	Source	Value
5A	Application PAN	Card/ICC	4761739001010010
82	Application Interchange Profile (A...	ICC	5C00
84	Dedicated Filename	ICC	A0000000031010
89	Approval Code	Host	125220
8A	Auth Response Code	ICC/Host	00
95	Trans Verification Status	ICC	0000008000
9A	Transaction Date	ICC	101022
9B	Trans Status Indicator	ICC	E800
9C	EMV Txn Type	Terminal	00
5F24	Expiry Date	Card/ICC	101231
5F28	Issuer Country Code	ICC	840
5F2A	Currency Code	ICC	124
5F34	App PAN Sequence Number	ICC	01

Click on a tag with Bit Settings and the B2 CIT automatically interprets the values

- Byte1 Bit8: 0 - Offline data authentication was not performed
- Bit7: 0 - SDA failed
- Bit6: 0 - ICC data missing
- Bit5: 0 - Card appears on terminal exception file 21
- Bit4: 0 - DDA failed
- Bit3: 0 - CDA failed
- Bit2: 0 - RFU
- Bit1: 0 - RFU
- Byte2 Bit8: 0 - ICC and terminal have different application versions
- Bit7: 0 - Expired application
- Bit6: 0 - Application not yet effective
- Bit5: 0 - Requested service not allowed for card product
- Bit4: 0 - New card
- Bit3: 0 - RFU
- Bit2: 0 - RFU
- Bit1: 0 - RFU
- Byte3 Bit8: 0 - Cardholder verification was not successful
- Bit7: 0 - Unrecognised CVM
- Bit6: 0 - PIN Try Limit exceeded
- Bit5: 0 - PIN entry required and PIN pad not present or not working
- Bit4: 0 - PIN entry required, PIN pad present, but PIN was not entered
- Bit3: 0 - Online PIN entered
- Bit2: 0 - RFU
- Bit1: 0 - RFU
- Byte4 Bit8: 1 - Transaction exceeds floor limit
- Bit7: 0 - Lower consecutive offline limit exceeded



The B2 CIT is highly configurable. Virtually every parameter used by the tool can be configured, including supported BIN Ranges, RIDs and AIDs. Functionality can be enabled or disabled and parameters are easily viewed and changed.

Configurations can be saved in order to test different Hosts and PINPads.

Contact B2 Processing Solutions for pricing and additional information.

**About B2 Processing Solutions:** B2 Processing Solutions is a Canadian company based in Toronto. B2 Processing Solutions has been providing training, consulting, Collis EMV Test Tools and Software Development to the Electronic Payments and Processing Industry since 2002.