Development (DEV) Canada
EMV™ Test Card Set
Summary

Version 10.00
July 2020
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<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Updated By</th>
<th>Revisions</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.00</td>
<td>May 03, 2016</td>
<td>B2PS</td>
<td>Initial document release</td>
</tr>
</tbody>
</table>
| 5.01    | May 25, 2016    | B2PS       | • Transaction Values added.  
• Various consistency, typographical, format corrections. |
| 5.02    | July 15, 2016   | B2PS       | • TC 05, TC 06 - Service code in profiles table corrected  
• TC 07 - AID in profiles table corrected  
• Formatting changes to Table of Contents |
| 5.10    | August 29, 2016 | B2PS       | • Duplex-print ready: Header, Margins, tables adjusted |
| 5.20    | Sept. 21, 2017  | B2PS       | • TC08: Card v6.0 has 2-byte Kernel ID |
| 6.00    | January 4, 2018 | B2PS       | • TC02 - New version v6.0: Discretionary data updated (CVV)  
• TC08 - New version v7.0: Increased contactless facility, ‘Approval Amount’ updated. |
| 7.00    | October 4, 2018 | B2PS       | • Amex card TC07 - Expiry date changed to 24/12  
• Discover card TC08 - Expiry date changed to 23/12 |
| 8.00    | February 27, 2019 | B2PS    | • TC08 - Tag 57 expiry date corrected |
| 9.00    | May 29, 2019    | B2PS       | • TC07 - PAN changed - now ends in ‘41007’, Approval amount changed, AIP contactless changed |
| 9.01    | June 7, 2019    | B2PS       | • Set renamed to “DEV Canada EMV Test Card Set”. No change to cards themselves. |
| 10.00   | July 31, 2020   | B2PS       | • TC01, TC03 – updated cardstock support; where applicable, "MasterCard">"Mastercard"  
TC05 – Now Offline Enciphered PIN |
# Table of Contents

## Chapter 1 - DEV Canada EMV Test Card Set Profiles

1.1 Test Card 01 - Visa, DI, Credit, English, Canada, CAD ........................................4  
1.1.1 Cardholder Verification Method List .................................................................4  
1.2 Test Card 02 - Visa, Technical Fallback Card .........................................................4  
1.3 Test Card 03 - Mastercard, DI, Credit, French, Canada, CAD ..................................4  
1.3.1 Cardholder Verification Method List .................................................................4  
1.4 Test Card 04 - Mastercard, Technical Fallback Card ..............................................5  
1.5 Test Card 05 - Interac, Debit, English, Canada, CAD ..............................................5  
1.5.1 Cardholder Verification Method List .................................................................5  
1.6 Test Card 06 - Interac, Debit, French, Canada, CAD ..............................................5  
1.6.1 Cardholder Verification Method List .................................................................5  
1.7 Test Card 07 - American Express, DI, Credit, English, Canada, CAD .......................6  
1.7.1 Cardholder Verification Method List - A0000000025010402 ... ..................6  
1.7.2 Cardholder Verification Method List (CL) - A0000000025010402 ..........6  
1.7.3 Cardholder Verification Method List - A0000000291010 ......................6  
1.8 Test Card 08 - Discover, DI, Credit, English, USA, USD .........................................6  
1.8.1 Cardholder Verification Method List .................................................................6
Chapter 1 -  DEV Canada EMV Test Card Set Profiles

This Development (DEV) Canada EMV Test Card Set contains 8 cards with at least one card from each of the following card brands.

<table>
<thead>
<tr>
<th>Test Card 01</th>
<th>Test Card 02</th>
<th>Test Card 03</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Brand</strong></td>
<td>Visa</td>
<td>Visa</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Credit</td>
<td>Credit</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Offline Capable</td>
<td>Fallback</td>
</tr>
<tr>
<td><strong>IIN</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>AID</strong></td>
<td>A0000000031010</td>
<td>-</td>
</tr>
<tr>
<td><strong>PAN</strong></td>
<td>476173 ****** 0119</td>
<td>476173 ****** 0267</td>
</tr>
<tr>
<td><strong>Expiry Date</strong></td>
<td>12/2022</td>
<td>12/2022</td>
</tr>
<tr>
<td><strong>Service Code</strong></td>
<td>201</td>
<td>201</td>
</tr>
<tr>
<td><strong>Interface</strong></td>
<td>Contact, Contactless, MSR</td>
<td>MSR</td>
</tr>
<tr>
<td><strong>CVM</strong></td>
<td>See card definition</td>
<td>See card definition</td>
</tr>
<tr>
<td><strong>Approval Amount</strong></td>
<td>$10.00</td>
<td>$10.00</td>
</tr>
<tr>
<td><strong>Issuer Country Code</strong></td>
<td>124 - Canada</td>
<td>-</td>
</tr>
<tr>
<td><strong>Application Currency Code</strong></td>
<td>124 - CAD</td>
<td>-</td>
</tr>
<tr>
<td><strong>Language</strong></td>
<td>'en' - English</td>
<td>-</td>
</tr>
<tr>
<td><strong>Card Version</strong></td>
<td>v6.0</td>
<td>v6.0</td>
</tr>
</tbody>
</table>

CAUTION

Multiple consecutive incorrect PIN entry attempts may result in the card being blocked. This is known as being ‘PIN Blocked’. If this occurs, it will no longer be possible to enter an Offline PIN which will cause all future transactions to be declined.

*** It is not possible to unblock a ‘PIN Blocked’ card ***
### Test Card 04
- **Brand**: Mastercard
- **Type**: Credit
- **Description**: Fallback
- **IIN**: -
- **AID**: -
- **PAN**: 541333 ****** 0029
- **Expiry Date**: 12/2022
- **Service Code**: 201
- **Interface**: MSR
- **CVM**: See card definition
- **Approval Amount**: $20.00
- **Issuer Country Code**: -
- **Application Currency Code**: -
- **Language**: -
- **Card Version**: v5.0

### Test Card 05
- **Brand**: Interac
- **Type**: Debit
- **Description**: Canadian Debit
- **IIN**: -
- **AID**: A0000002771010
- **PAN**: 450644 ****** 1933
- **Expiry Date**: 12/2022
- **Service Code**: 201
- **Interface**: Contact, MSR
- **CVM**: See card definition
- **Approval Amount**: $10.00
- **Issuer Country Code**: -
- **Application Currency Code**: -
- **Language**: -
- **Card Version**: v6.0

### Test Card 06
- **Brand**: Interac
- **Type**: Debit
- **Description**: Canadian Debit
- **IIN**: -
- **AID**: A0000002771010
- **PAN**: 450644 ****** 1933
- **Expiry Date**: 12/2022
- **Service Code**: 201
- **Interface**: Contact, MSR
- **CVM**: See card definition
- **Approval Amount**: $10.00
- **Issuer Country Code**: -
- **Application Currency Code**: -
- **Language**: -
- **Card Version**: v5.0

### Test Card 07
- **Brand**: American Express
- **Type**: Credit
- **Description**: Online Only
- **IIN**: -
- **AID**: A000000025010402, A0000000291010
- **PAN**: 374245 ****** 1007
- **Expiry Date**: 12/2024
- **Service Code**: 201
- **Interface**: Contact, Contactless, MSR
- **CVM**: See card definition
- **Approval Amount**: $30.00
- **Issuer Country Code**: 124 - Canada
- **Application Currency Code**: 124 - CAD
- **Language**: -
- **Card Version**: v7.0

### Test Card 08
- **Brand**: Discover
- **Type**: Credit
- **Description**: Discover Credit
- **IIN**: -
- **AID**: A0000001523010
- **PAN**: 450644 ****** 0216
- **Expiry Date**: 12/2023
- **Service Code**: 201
- **Interface**: Contact, Contactless, MSR
- **CVM**: See card definition
- **Approval Amount**: $79.00
- **Issuer Country Code**: 840 - USA
- **Application Currency Code**: 840 - USD
- **Language**: -
- **Card Version**: v9.0
1.1 Test Card 01 - Visa, DI, Credit, English, Canada, CAD

A Dual Interface (Contact / Contactless) Visa card with Issuer Country Code of ‘Canada’ and Currency Code of ‘CAD’.

The recommended transaction amount to generate a host approval is $10.00.

1.1.1 Cardholder Verification Method List

<table>
<thead>
<tr>
<th>CVM</th>
<th>Verification Method</th>
<th>Conditions</th>
<th>If unsuccessful</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Online PIN</td>
<td>Unattended Cash</td>
<td>Next CVM</td>
</tr>
<tr>
<td>2</td>
<td>Offline Plaintext PIN</td>
<td>Terminal supports CVM type</td>
<td>Next CVM</td>
</tr>
<tr>
<td>3</td>
<td>Signature (paper)</td>
<td>Terminal supports CVM type</td>
<td>Next CVM</td>
</tr>
<tr>
<td>4</td>
<td>No CVM required</td>
<td>Always</td>
<td>Fail</td>
</tr>
</tbody>
</table>

1.2 Test Card 02 - Visa, Technical Fallback Card

This card has a chip image printed on the card but it does not contain an actual chip. When inserted, a chip error will be detected.

This should trigger Technical Fallback processing and the transaction should continue as a magstripe Technical Fallback transaction.

The recommended transaction amount to generate a host approval is $10.00.

Note: The test host may Approve / Decline based on its configuration with respect to CVV processing.

1.3 Test Card 03 - Mastercard, DI, Credit, French, Canada, CAD

A Dual Interface (Contact / Contactless) Mastercard credit card with Issuer Country Code of ‘Canada’ and Currency Code of ‘CAD’.

The recommended transaction amount to generate a host approval is $20.00.

1.3.1 Cardholder Verification Method List

<table>
<thead>
<tr>
<th>CVM</th>
<th>Verification Method</th>
<th>Conditions</th>
<th>If unsuccessful</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Online PIN</td>
<td>Unattended Cash</td>
<td>Next CVM</td>
</tr>
<tr>
<td>2</td>
<td>Offline PIN</td>
<td>Terminal supports CVM type</td>
<td>Next CVM</td>
</tr>
<tr>
<td>3</td>
<td>Offline Plaintext PIN</td>
<td>Terminal supports CVM type</td>
<td>Next CVM</td>
</tr>
<tr>
<td>4</td>
<td>Signature (paper)</td>
<td>Terminal supports CVM type</td>
<td>Next CVM</td>
</tr>
<tr>
<td>5</td>
<td>No CVM required</td>
<td>Terminal supports CVM type</td>
<td>Fail</td>
</tr>
</tbody>
</table>
1.4  **Test Card 04 - Mastercard, Technical Fallback Card**

This card has a chip image printed on the card but it does not contain an actual chip. When inserted, a chip error will be detected. This should trigger Technical Fallback processing and the transaction should continue as a magstripe Technical Fallback transaction. The recommended transaction amount to generate a host approval is $20.00.

1.5  **Test Card 05 - Interac, Debit, English, Canada, CAD**

An Interac Canadian debit card with Issuer Country Code of 'Canada' and Currency Code of 'CAD'. The recommended transaction amount to generate a host approval is $10.00.

1.5.1  **Cardholder Verification Method List**

<table>
<thead>
<tr>
<th>Cardholder Verification Method List ('0400')</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CVM</strong></td>
</tr>
<tr>
<td>-----</td>
</tr>
<tr>
<td>1</td>
</tr>
</tbody>
</table>

1.6  **Test Card 06 - Interac, Debit, French, Canada, CAD**

An Interac Canadian debit card with Issuer Country Code of 'Canada' and Currency Code of 'CAD'. The recommended transaction amount to generate a host approval is $10.00.

1.6.1  **Cardholder Verification Method List**

<table>
<thead>
<tr>
<th>Cardholder Verification Method List ('0100')</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CVM</strong></td>
</tr>
<tr>
<td>-----</td>
</tr>
<tr>
<td>1</td>
</tr>
</tbody>
</table>
1.7  **Test Card 07 - American Express, DI, Credit, English, Canada, CAD**

A Dual Interface (Contact / Contactless) American Express credit card with Issuer Country Code of ‘Canada’ and Currency Code of ‘CAD’.

The recommended transaction amount to generate a host approval is $30.00.

1.7.1  **Cardholder Verification Method List - A000000025010402**

<table>
<thead>
<tr>
<th>CVM</th>
<th>Verification Method</th>
<th>Conditions</th>
<th>If unsuccessful</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Online PIN</td>
<td>Unattended Cash</td>
<td>Next CVM</td>
</tr>
<tr>
<td>2</td>
<td>Online PIN</td>
<td>Terminal supports CVM type</td>
<td>Next CVM</td>
</tr>
<tr>
<td>3</td>
<td>Signature (paper)</td>
<td>Terminal supports CVM type</td>
<td>Next CVM</td>
</tr>
<tr>
<td>4</td>
<td>No CVM required</td>
<td>Terminal supports CVM type</td>
<td>Next CVM</td>
</tr>
</tbody>
</table>

1.7.2  **Cardholder Verification Method List (CL) - A000000025010402**

<table>
<thead>
<tr>
<th>CVM</th>
<th>Verification Method</th>
<th>Conditions</th>
<th>If unsuccessful</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Online PIN</td>
<td>Unattended Cash</td>
<td>Next CVM</td>
</tr>
<tr>
<td>2</td>
<td>Signature (paper)</td>
<td>Terminal supports CVM type</td>
<td>Next CVM</td>
</tr>
<tr>
<td>3</td>
<td>No CVM required</td>
<td>Not Unattended Cash, Manual Cash or Cashback</td>
<td>Fail</td>
</tr>
</tbody>
</table>

1.7.3  **Cardholder Verification Method List - A0000000291010**

<table>
<thead>
<tr>
<th>CVM</th>
<th>Verification Method</th>
<th>Conditions</th>
<th>If unsuccessful</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Online PIN</td>
<td>Unattended Cash</td>
<td>Next CVM</td>
</tr>
<tr>
<td>2</td>
<td>Online PIN</td>
<td>Terminal supports CVM type</td>
<td>Next CVM</td>
</tr>
<tr>
<td>3</td>
<td>Signature (paper)</td>
<td>Terminal supports CVM type</td>
<td>Next CVM</td>
</tr>
<tr>
<td>4</td>
<td>No CVM required</td>
<td>Terminal supports CVM type</td>
<td>Next CVM</td>
</tr>
</tbody>
</table>

1.8  **Test Card 08 - Discover, DI, Credit, English, USA, USD**

A Dual Interface (Contact / Contactless) Discover credit card with Issuer Country Code of ‘USA’ and Currency Code of ‘USD’.

The recommended transaction amount to generate a host approval is $79.00.

1.8.1  **Cardholder Verification Method List**

<table>
<thead>
<tr>
<th>CVM</th>
<th>Verification Method</th>
<th>Conditions</th>
<th>If unsuccessful</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Online PIN</td>
<td>Unattended Cash</td>
<td>Next CVM</td>
</tr>
<tr>
<td>2</td>
<td>Offline Plaintext PIN</td>
<td>Terminal supports CVM type</td>
<td>Next CVM</td>
</tr>
<tr>
<td>3</td>
<td>No CVM required</td>
<td>Terminal supports CVM type</td>
<td>Fail</td>
</tr>
</tbody>
</table>