**Loyalty Customer Transaction**

|  |  |
| --- | --- |
| Date | 01/24/2010 |
| Version | 1.1 |
| Status | Wait to approve |
| Author | Hung Pham |
| Review By | Dat Tran |
| Approved By |  |

**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Version | Description | Author |
| 01/24/2010 | 1.0 | Initial draft | Hung Pham |
| 01/25/2010 | 1.1 | Modify Message Format | Hung Pham |
| 01/28/2010 | 1.2 | Add function and separate message for more details. | Hung Pham |
| 02/01/2010 | 1.3 | Separate Message for detail purpose. | Hung Pham |

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# Transaction general description.

Loyalty Customer transaction is used to being payable in cash append with ATM card or Loyalty Card to get points from the system.

# Message format

## Add Point Transaction

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field No | Data Element Name | Attribute | Request | Respone |
|  | MTI | n 4 | M | M |
|  | Bitmap | b 8 |  |  |
| 3 | Processing code | n 6 | M | M |
| 4 | Amount Transaction | n 12 | M | M |
| 11 | System Trace Audit Number | n 6 | M | ME |
| 12 | Local Transaction Time | n 6 | M | ME |
| 13 | Local Transaction Date | n 4 | M | ME |
| 25 | Point Of Service Condition Code | n 2 | M |  |
| 35 | Track 2 Data | z..37 | M | M |
| 39 | Response Code | an 2 |  | M |
| 41 | Card Acceptor Terminal ID | ans 8 | M | M |
| 42 | Card Acceptor Identification Code | ans 15 | M | M |
| 62 | Reserse Private | ans…999 |  | O |
| 63 | Reverse Private | ans …999 |  | ME |

### Specification Message Format:

#### MTI (Message Type Indicator) :

|  |  |  |
| --- | --- | --- |
| Request | Respone | Description |
| 0200 | 0210 | Add Point |

#### Field No : 3 Processing code

The processing code is the contructed data element composed of tree subfield :

* Transaction Type code,AN2
* Account Type Code 1,AN2
* Account Type Code 2,AN2 (skip : default : 00)
* **The transaction Type Code(TTC)** is used along with MTI as a key to uniquely identify the type of transaction being processed.

Request

|  |  |  |
| --- | --- | --- |
| MTI | TTC | Description |
| 0200 | 40 | Add Point |

Response

|  |  |  |
| --- | --- | --- |
| MTI | TTC | Description |
| 0210 | 40 | Add Point |

* **Account Type Code (ATC)**

The transaction code describes the specific transaction type.The Account Type Code 1 describes the account type for debits and inquiry and the “from” account for transfer.

|  |  |
| --- | --- |
| ATC | Description |
| 70 | Loyalty Card |

#### Field No 11: System Trace Audit Number (STAN)

Unique number use to match request and response pair.

#### Field No 25 Point Of Service Condition Code:

|  |  |
| --- | --- |
| PoSCC | Description |
| 00 | Loyalty Card |
| 01 | ATM |
| 02 | Phone bar reader |

#### Field No : 35 Track 2 Data

The information encoded on the track 2 of the magnetic stripe including field seperator and excluding the start sentinel and end sentinel and longtitude redundancy check (LRC) characters.

|  |  |
| --- | --- |
| Name | Format |
| Primary Account Number | up to 16 digit |
| Field Separator | can be either “=” or “D” |
| Expiration Day | in YYMM format |
| Service Restriction Code | Three Digit |
| Discretionary Data | balance of avaiable digits |

#### Field No : 39 Response code

|  |  |
| --- | --- |
| **Value** | **Description** |
| 00 | Loyalty updated successfully |
| 03 | Invalid Merchant (Merchant ID not exist in DB) |
| 14 | Invalid Card Number (Card Number not exist in DB) |
| 54 | Expired Card |
| 58 | Invalid Terminal (Terminal ID not exist in DB) |
| 91 | Loyalty host is inoperative (Unsuccessfully updated to Loyalty DB) |
| 12 | Other unidentified error |
| 97 | Point rule not exist |
| 14 | Invalid fields. |

#### Filed No : 41 Card Acceptor Terminal ID “TID”

A code used to uniquely identify the terminal originating a transaction, this code is also referred to as the Terminal Identifier or “TID”.

#### Field No 42 Card Acceptor Identify Code “MID”

A code uniquely identify the card acceptor originating a transaction,this code is also reffered to as the Merchant Identifier or “MID”.

#### Field 62 :

Send Error message back to client.

#### Field 63

|  |  |  |  |
| --- | --- | --- | --- |
| MTI | TTC | Attribute | Description |
| 0210 | 40 | an 60 | - First 10 digits: Points get from Range point Rule  - 2nd 10 digits: Points get from Promotion point Rule  - 3rd 10 digits: Points get from Frequency point Rule  - 4th 10 digits: Points get from Birthday point Rule  - 5th 10 digits: Points get from Join point Rule  - Last 10 digits: Total points |

## Subtract Point Transaction

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field No | Data Element Name | Attribute | Request | Respone |
|  | MTI | n 4 | M | M |
|  | Bitmap | b 8 |  |  |
| 3 | Processing code | n 6 | M | M |
| 4 | Amount Transaction | n 12 | M | M |
| 11 | System Trace Audit Number | n 6 | M | ME |
| 12 | Local Transaction Time | n 6 | M | ME |
| 13 | Local Transaction Date | n 4 | M | ME |
| 25 | Point Of Service Condition Code | n 2 | M |  |
| 35 | Track 2 Data | z..37 | M | M |
| 39 | Response Code | an 2 |  | M |
| 41 | Card Acceptor Terminal ID | ans 8 | M | M |
| 42 | Card Acceptor Identification Code | ans 15 | M | M |
| 62 | Reserse Private | ans…999 |  | O |
| 63 | Reverse Private | ans …999 |  | ME |

### Specification Message Format:

#### MTI (Message Type Indicator) :

|  |  |  |
| --- | --- | --- |
| Request | Respone | Description |
| 0200 | 0210 | Subtract Point |

#### Field No : 3 Processing code

The processing code is the contructed data element composed of tree subfield :

* Transaction Type code,AN2
* Account Type Code 1,AN2
* Account Type Code 2,AN2 (skip : default : 00)
* **The transaction Type Code(TTC)** is used along with MTI as a key to uniquely identify the type of transaction being processed.

Request

|  |  |  |
| --- | --- | --- |
| MTI | TTC | Description |
| 0200 | 41 | Subtract Point |

Response

|  |  |  |
| --- | --- | --- |
| MTI | TTC | Description |
| 0210 | 41 | Subtract Point |

* **Account Type Code (ATC)**

The transaction code describes the specific transaction type.The Account Type Code 1 describes the account type for debits and inquiry and the “from” account for transfer.

|  |  |
| --- | --- |
| ATC | Description |
| 70 | Loyalty Card |

#### Field No 11: System Trace Audit Number (STAN)

Unique number use to match request and response pair.

#### Field No 25 Point Of Service Condition Code:

|  |  |
| --- | --- |
| PoSCC | Description |
| 00 | Loyalty Card |
| 01 | ATM |
| 02 | Phone bar reader |

#### Field No : 35 Track 2 Data

The information encoded on the track 2 of the magnetic stripe including field seperator and excluding the start sentinel and end sentinel and longtitude redundancy check (LRC) characters.

|  |  |
| --- | --- |
| Name | Format |
| Primary Account Number | up to 16 digit |
| Field Separator | can be either “=” or “D” |
| Expiration Day | in YYMM format |
| Service Restriction Code | Three Digit |
| Discretionary Data | balance of avaiable digits |

#### Field No : 39 Response code

|  |  |
| --- | --- |
| **Value** | **Description** |
| 00 | Loyalty updated successfully |
| 03 | Invalid Merchant (Merchant ID not exist in DB) |
| 14 | Invalid Card Number (Card Number not exist in DB) |
| 54 | Expired Card |
| 58 | Invalid Terminal (Terminal ID not exist in DB) |
| 91 | Loyalty host is inoperative (Unsuccessfully updated to Loyalty DB) |
| 12 | Other unidentified error |
| 97 | Point rule not exist |

#### Filed No : 41 Card Acceptor Terminal ID “TID”

A code used to uniquely identify the terminal originating a transaction, this code is also referred to as the Terminal Identifier or “TID”.

#### Field No 42 Card Acceptor Identify Code “MID”

A code uniquely identify the card acceptor originating a transaction,this code is also reffered to as the Merchant Identifier or “MID”.

#### Field 62

Send Error back to client.

#### Field 63

|  |  |  |  |
| --- | --- | --- | --- |
| MTI | TTC | Attribute | Description |
| 0210 | 41 | an 10 | First 10 digits: subtraction points |

## Balance Inquiry Transaction

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field No | Data Element Name | Attribute | Request | Respone |
|  | MTI | n 4 | M[[1]](#footnote-2) | M |
|  | Bitmap | b 8 |  |  |
| 3 | Processing code | n 6 | M | M |
| 4 | Amount Transaction | n 12 | M | M |
| 11 | System Trace Audit Number | n 6 | M | ME |
| 12 | Local Transaction Time | n 6 | M | ME |
| 13 | Local Transaction Date | n 4 | M | ME |
| 25 | Point Of Service Condition Code | n 2 | M |  |
| 35 | Track 2 Data | z..37 | M | M |
| 39 | Response Code | an 2 |  | M |
| 41 | Card Acceptor Terminal ID | ans 8 | M | M |
| 42 | Card Acceptor Identification Code | ans 15 | M | M |
| 62 | Reserse Private | ans…999 |  | O |
| 63 | Reverse Private | ans …999 |  | ME |

### Specification Message Format:

#### MTI (Message Type Indicator) :

|  |  |  |
| --- | --- | --- |
| Request | Respone | Description |
| 0200 | 0210 | Balance Inquiry |

#### Field No : 3 Processing code

The processing code is the contructed data element composed of tree subfield :

* Transaction Type code,AN2
* Account Type Code 1,AN2
* Account Type Code 2,AN2 (skip : default : 00)
* **The transaction Type Code(TTC)** is used along with MTI as a key to uniquely identify the type of transaction being processed.

Request

|  |  |  |
| --- | --- | --- |
| MTI | TTC | Description |
| 0200 | 42 | Balance Inquiry |

Response

|  |  |  |
| --- | --- | --- |
| MTI | TTC | Description |
| 0210 | 42 | Balance Inquiry |

* **Account Type Code (ATC)**

The transaction code describes the specific transaction type.The Account Type Code 1 describes the account type for debits and inquiry and the “from” account for transfer.

|  |  |
| --- | --- |
| ATC | Description |
| 70 | Loyalty Card |

#### Field No 11: System Trace Audit Number (STAN)

Unique number use to match request and response pair.

#### Field No 25 Point Of Service Condition Code:

|  |  |
| --- | --- |
| PoSCC | Description |
| 00 | Loyalty Card |
| 01 | ATM |
| 02 | Phone bar reader |

#### Field No : 35 Track 2 Data

The information encoded on the track 2 of the magnetic stripe including field seperator and excluding the start sentinel and end sentinel and longtitude redundancy check (LRC) characters.

|  |  |
| --- | --- |
| Name | Format |
| Primary Account Number | up to 16 digit |
| Field Separator | can be either “=” or “D” |
| Expiration Day | in YYMM format |
| Service Restriction Code | Three Digit |
| Discretionary Data | balance of avaiable digits |

#### Field No : 39 Response code

|  |  |
| --- | --- |
| **Value** | **Description** |
| 00 | Inquiry successfully |
| 03 | Invalid Merchant (Merchant ID not exist in DB) |
| 14 | Invalid Card Number (Card Number not exist in DB) |
| 54 | Expired Card |
| 58 | Invalid Terminal (Terminal ID not exist in DB) |
| 91 | Loyalty host is inoperative (Unsuccessfully updated to Loyalty DB) |
| 12 | Other unidentified error |

#### Filed No : 41 Card Acceptor Terminal ID “TID”

A code used to uniquely identify the terminal originating a transaction, this code is also referred to as the Terminal Identifier or “TID”.

#### Field No 42 Card Acceptor Identify Code “MID”

A code uniquely identify the card acceptor originating a transaction,this code is also reffered to as the Merchant Identifier or “MID”.

#### Field 62

Send Error message back to client.

#### Field 63

|  |  |  |  |
| --- | --- | --- | --- |
| MTI | TTC | Attribute | Description |
| 0210 | 42 | an 10 | First 10 digits: Total points |

## Redemption Transaction

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Field No | Data Element Name | Attribute | Request | Respone |
|  | MTI | n 4 | M | M |
|  | Bitmap | b 8 |  |  |
| 3 | Processing code | n 6 | M | M |
| 4 | Amount Transaction | n 12 | M | M |
| 11 | System Trace Audit Number | n 6 | M | ME |
| 12 | Local Transaction Time | n 6 | M | ME |
| 13 | Local Transaction Date | n 4 | M | ME |
| 25 | Point Of Service Condition Code | n 2 | M |  |
| 35 | Track 2 Data | z..37 | M | M |
| 39 | Response Code | an 2 |  | M |
| 41 | Card Acceptor Terminal ID | ans 8 | M | M |
| 42 | Card Acceptor Identification Code | ans 15 | M | M |
| 62 | Reserse Private | ans…999 |  | O |
| 63 | Reverse Private | ans …999 |  | ME |

### Specification Message Format:

#### MTI (Message Type Indicator) :

|  |  |  |
| --- | --- | --- |
| Request | Respone | Description |
| 0200 | 0210 | Redemption |

#### Field No : 3 Processing code

The processing code is the contructed data element composed of tree subfield :

* Transaction Type code,AN2
* Account Type Code 1,AN2
* Account Type Code 2,AN2 (skip : default : 00)
* **The transaction Type Code(TTC)** is used along with MTI as a key to uniquely identify the type of transaction being processed.

Request

|  |  |  |
| --- | --- | --- |
| MTI | TTC | Description |
| 0200 | 44 | Redemption |

Response

|  |  |  |
| --- | --- | --- |
| MTI | TTC | Description |
| 0210 | 42 | Redemption |

* **Account Type Code (ATC)**

The transaction code describes the specific transaction type.The Account Type Code 1 describes the account type for debits and inquiry and the “from” account for transfer.

|  |  |
| --- | --- |
| ATC | Description |
| 70 | Loyalty Card |

#### Field No 11: System Trace Audit Number (STAN)

Unique number use to match request and response pair.

#### Field No 25 Point Of Service Condition Code:

|  |  |
| --- | --- |
| PoSCC | Description |
| 00 | Loyalty Card |
| 01 | ATM |
| 02 | Phone bar reader |

#### Field No : 35 Track 2 Data

The information encoded on the track 2 of the magnetic stripe including field seperator and excluding the start sentinel and end sentinel and longtitude redundancy check (LRC) characters.

|  |  |
| --- | --- |
| Name | Format |
| Primary Account Number | up to 16 digit |
| Field Separator | can be either “=” or “D” |
| Expiration Day | in YYMM format |
| Service Restriction Code | Three Digit |
| Discretionary Data | balance of avaiable digits |

#### Field No : 39 Response code

|  |  |
| --- | --- |
| **Value** | **Description** |
| 00 | Loyalty updated successfully |
| 00 | Redemption successfully |
| 00 | Inquiry successfully |
| 03 | Invalid Merchant (Merchant ID not exist in DB) |
| 14 | Invalid Card Number (Card Number not exist in DB) |
| 54 | Expired Card |
| 58 | Invalid Terminal (Terminal ID not exist in DB) |
| 91 | Loyalty host is inoperative (Unsuccessfully updated to Loyalty DB) |
| 97 | Could not calculate the equivalent point |

#### Filed No : 41 Card Acceptor Terminal ID “TID”

A code used to uniquely identify the terminal originating a transaction, this code is also referred to as the Terminal Identifier or “TID”.

#### Field No 42 Card Acceptor Identify Code “MID”

A code uniquely identify the card acceptor originating a transaction,this code is also reffered to as the Merchant Identifier or “MID”.

#### Field 62

Send error back to client.

#### Field 63

|  |  |  |  |
| --- | --- | --- | --- |
| MTI | TTC | Attribute | Description |
| 0210 | 44 | an 20 | First 10 digits: Points equivalent to entered amount  Last 10 digits: Balance points after Transaction |

# Conditional Code

|  |  |
| --- | --- |
| Type | Comment |
| O | Option |
| M | Mandantory |
| ME | Mandantory Echos,echoes the same data(if present) as the original message. |

1. Please view condition code for more details. [↑](#footnote-ref-2)