



CFN Series

VisaNet Credit and Debit Card Networks

Version 022b and above

For CFN 2 Versions 2.3K and above

For CFN 3 Versions 3.3K and above

Not to be used with CFN 3 Version 3.4

**MDE-4560
(formerly C35918)**

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Approvals

Gasboy, Greensboro, is an ISO 9001:2000 registered facility.

Underwriters Laboratories (UL):

UL File#	Products listed with U L
MH4314	All dispensers and self-contained pumping units
MH6418	Power operated Transfer Pump Models 25, 25C, 26, 27, 28, 72, 72S, 72SP, 72X, 73 and 1820
MH7404	Hand operated Transfer Pump Models 1230 Series, 1243 Series, 1520 and 1720 Series
MH10581	Key control unit, Model GKE-B Series Card reader terminals, Models 1000, 1000P Site controller, Model 2000S CFN Series Data entry terminals, Model TPK-900 Series Fuel Point Reader System

New York City Fire Department (NYFD):

NYFD C of A #	Product
4823	9100A, 9140A, 9152A, 9153A, 9800A, 9840A, 9850A, 9852A, 9853A, 9140
4997	9822A, 9823A
5046	9100Q, 9140Q, 9152Q, 9153Q, 9800Q, 9840Q, 9852Q, 9853Q

California Air Resources Board (CARB):

Executive Order #	Product
G-70-52-AM	Balance Vapor Recovery
G-70-150-AE	VaporVac

National Conference of Weights and Measures (NCWM) - Certificate of Compliance (CoC):

Gasboy pumps and dispensers are evaluated by NCWM under the National Type Evaluation Program (NTEP). NCWM has issued the following CoC:

CoC#	Product	Model #	CoC#	Product	Model #	CoC#	Product	Model #
95-179A2	Dispenser	9100 Retail Series, 8700 Series, 9700 Series	91-019A2	Dispenser	9100 Commercial Series			
95-136A5	Dispenser	9800 Series	91-057A3	Controller	1000 Series FMS, 2000S-CFN Series			

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Dispensers

5,257,720

Point of Sale/Back Office Equipment

D335,673

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Introduction

Purpose

This manual contains information that will be useful if you are connecting your site to VisaNet for card verification and if you have VISA® software 022 or greater. The Site Controller software version must start with V2.3 or V3.3 for this version of VisaNet.

To determine the version of VISA that you have installed, enter the following command at the Site Controller:

```
STATUS -V
```

This software is CPS2000/Merit certified and registered with Vital Processing Services®.

The VisaNet software now complies with the new VISA restriction on the credit card account number printed on Island receipts. Only 4 digits will be printed instead of the complete number.

Cards Accepted

The credit cards accepted with this network are:

- Carte BlancheSM
- Master Card[®]
- VISA
- DiscoverSM
- American Express[®]
- Diner's ClubSM

Reference Manual

The following documents contain related information and may be helpful while connecting your site to VisaNet.

Site Controller Related Publications

Site Controller II - Version 2.3 and later

Document Number	Title	GOLD Library
C01918	CFN Series Site Controller II Installation Manual	Fuel Management Products
C09159	CFN Series CFN II Quick Reference	Fuel Management Products
C09204	Check Point Reference Manual	Fuel Management Products
C35923	Point of Sale & Shift Change	Fuel Management Products
MDE-4311	Site Controller II Manager's Manual v2.2+	Fuel Management Products
MDE-4312A	Site Controller II Configuration Manual v2.3	Fuel Management Products
MDE-4355	CFN Series Profit Point Clerk's Manual	Fuel Management Products
MDE-4356	CFN Series Profit Point Reference Manual	Fuel Management Products

Site Controller III - Version 3.3

Document Number	Title	GOLD Library
C09204	Check Point Reference Manual	Fuel Management Products
C35921	CFN III Quick Reference v3.3	Fuel Management Products

Document Number	Title	GOLD Library
C35923	Point of Sale & Shift Change	Fuel Management Products
MDE-4313	Site Controller III Manager's Manual for Windows NT v3.3	Fuel Management Products
MDE-4314A	Site Controller III Configuration Manual for Windows v3.3	Fuel Management Products
MDE-4355	CFN Series Profit Point Clerk's Manual	Fuel Management Products
MDE-4356	CFN Series Profit Point Reference Manual	Fuel Management Products

Credit And Debit Card Networks

Document Number	Title	Document Number	Title	GOLD Library
C35901A	Buypass	C35909	Generic Dial	Fuel Management Products
C35902	ADS-Citgo	C35910	Nabanco	Fuel Management Products
C35903	Comdata	C35916	UFDA	Fuel Management Products
C35904	EDS-CCIS	C35915	T-Chek	Fuel Management Products
C35905	FDR	C35911	NDC	Fuel Management Products
C35906	FINA	C35913	Sinclair	Fuel Management Products
C35914	SPS/Phillips	C35907	Gascard	Fuel Management Products
C35930	Gasboy Dial 001	MDE-4572	PaymenTech	Fuel Management Products
C35931	Amoco/Datacard			

Pump Interface

Document Number	Title	GOLD Library
C01745	Gilbarco Interface Unit Installation Manual	Fuel Management Products
C09146	Site Controller Pump Interface Manual	Fuel Management Products
C35924	SDI/Unitec Interface	Fuel Management Products
MDE-4559	Insight Interface	Fuel Management Products

Card Encoding And Miscellaneous

Document Number	Title	GOLD Library
C01687	CFN Series Card Encoding Manual	Fuel Management Products

Technical Publications

Document Number	Title	GOLD Library
C01759	CFN Diagnostic Manual	Fuel Management Products

Warranty

For information on warranty, refer to MDE-4255 Gasboy’s Warranty Policy Statement. If you have any warranty-related questions, contact Gasboy’s Warranty Department at its Greensboro location.

Preparing for Connection

Before you connect to VisaNet, you must determine the types of cards that you will accept. Your VisaNet representative needs to know this too.

Before you configure, you must also ensure that you know the following information (consult your VisaNet representative to determine the codes that you do not know).

Your terminal identification information includes:

- Main authorization phone number(s).
- Main settlement phone number(s).
- The Bank Identification Number (BIN) of the acquiring bank, that is, the VisaNet member bank where you have your account.
- Your merchant ID.
- Agent number.
- Merchant chain number.
- Your store number.
- Your terminal number(s).
- Merchant location number.
- Your merchant category code for Island and Console transactions. Your bank may only supply you with one number.
- Your country code (840 = USA).
- Currency code.
- Your ZIP code must be nine digits (check with your local post office if you do not know your complete code).
- Your time zone code.
- Language code.
- Site address information.
- Backup authorization and settlement phone numbers may also be needed.
- You will need a modem for authorization. This is in addition to a modem used to poll transactions.
- Determine the Site Controller port to be used to connect to the VisaNet host, and connect that port to a Hayes® modem capable of communicating at 1200 baud or a modem that is 100% compatible with the Hayes standard (See the Hayes dial-out settings in the Modem appendix in MDE-4311 Site Controller II Manager's Manual).
- **For Upgrades Only:** If you are upgrading from a previous version, print the network information using VISA-S. Save this for reference. You will be reentering the information after initialization.

Setting Up Your Site

For Upgrades Only

Before initializing VISA, all transactions must be settled. Next, ensure that your router table has a transaction setting of 750 and a router setting of 17000 bytes (you can check these settings and make changes if necessary, at the C: prompt by running TABLE. To calculate the router table size for the current transaction table, run VISA -A). If you change the size of the router table or transaction table, reboot the Site Controller after you exit from the table program.

In addition, the following tables need to be set to these minimum sizes:

- Router table size is $218 + 22 X$ (# of transactions).
- Receipt table must be set to 100 records.
- Auth table must be set to 75.

The operating system will warn you if enough space is not available for the router table. In this case, you will have to either decrease the number of transactions or increase the size of the router table. You may have to repeat these steps until you have maximized the number of stored transactions before continuing.

To initialize:

- 1 Settle all transactions.
- 2 Run TRANBACK.
- 3 Run SYSBACK.
- 4 Run VISA;> log -S to print your site's information.
- 5 Run FIX TRANS;I.
- 6 Run VISA -I to initialize the network parameters.
- 7 Reboot.
- 8 Run VISA -E (or from the menu system, select Edit Network Parameters).
- 9 Select the main menu option, W. This will step you through all of the basic data needed for the network.
- 10 Run VISA -C to set the card parameters.
- 11 Run Settle -R # to reset your batch number.

Miscellaneous Setup Notes

If your bank requires a Stop Loss Limit, run SYS_PAR. Set the cumulative time and gallon limits to your bank's specifications.

If your site is not dialing after credit card authorizations are attempted, check if:

- 1 The correct phone number is entered.
- 2 Lockout on the Remote Verification parameter (SYS_PAR) for the reader and/or console is not set to CREDIT.
- 3 The card is enabled for use with this site (VISA-C command).
- 4 Warnings related to the router table size are not displayed.

If reenter errors appear repeatedly, recheck your VISA information since all the parameters must be correct (ensure that your ZIP code is nine digits, not just five). Ensure that the address information is entered.

CPS/MERIT Discounts

After several days, check with your bank to ensure that you are getting CPS/Merit pricing. They should be able to tell you which parameters need to be corrected to receive fuel discounts.

Backing Up

Run ROUTBACK to save the router data to ROUTBACK.DTA. To retrieve the saved data, run ROUTBACK -R.

Running Visa

The VISA command will prompt you for required information on each item. The program also performs checks on the existing data and warns you if any errors occur and how they might be fixed. The program can be run in two ways: menu and command line.

Menu

To run the program in the menu mode, type VISA and the main menu appears as shown:

```
VISA MAIN MENU
1. Exit
2. Read Network Parameters from File
3. Write Network Parameters to File
4. Edit Network Parameters
5. Edit Card Parameters
6. Edit Instant On for Pumps   FEATURE NOT AVAILABLE
7. Remove Transaction from Batch
8. Print Configuration
9. Initialize Network Parameters

Options:  F = File, S = Screen, ? = Help
Output to: SCREEN
Your choice (#,F, or S)
```

Enter the number to the left of an item to execute that item. Using the “F”, “S”, and “?” options, you can do the following:

F - redirect the screen output to a specific file.

S - have output go to the screen.

? - print the options for the command line execution of the program.

The default is to print output to the screen. After you have completed, select Exit to exit the program.

Command Line

The command line format of the program is:

VISA [options]

where the valid options are:

Option	Description
-E	Allows user to edit network parameters
-R <file>	Loads VISA configuration from given file
-W <file>	Writes current VISA configuration to given file
-C	Edits Credit Card Acceptance Table

-P	Edits Instant On for Pumps Table (FEATURE NOT AVAILABLE)
-D	Removes Transaction from Batch
-S	Prints current VISA configuration
-I	Resets current VISA configuration
-G 0 1	Disables/Enables ICR transactions at night
-?	Prints this list

These options can be combined, though care must be taken when combining some operations with the read, write and initialize file options. The program operates on the FRAMOS.CFG file in your current directory. Each of the options is discussed below in this manual.

Saving Parameter Changes

To save any changes you make with the VISA options, select Quit and answer Yes to the save changes prompt. The program stores the information in FRAMOS.CFG and/or in the router tables.

Note: If you do not answer Yes, none of the information that you have entered will be saved!

```
Diagnosics
Checking SYS_PAR...
Checking READER...
Checking TABLES...
No errors detected.
```

The program then runs a check on all the VISA-related parameters. Some parameters cannot be edited within this program, but the appropriate program is mentioned if a problem occurs. A message will be displayed that tells you which of the parameters is in error. A positive result is shown here.

Read/Write a Network File (-R, -W)

Network information and card parameters can be saved to a file. You can then use the file to reload this configuration if data is ever lost.

To save the data to a file, enter the command VISA-W filename. Then copy the new file and your FRAMOS.CFG file to a diskette for safe-keeping.

To load or restore the data, enter VISA-R filename and reboot.

Editing Network Parameters (-E)

The VISA program allows you to edit parameters by entering the parameter's number, which is shown on the menu.

When you run VISA-E, a menu of parameters appears on the screen. A sample page is shown here (your page will certainly differ):

```

NETWORK PARAMETERS

1. Main Bank Phone Number : 9WT11145550491
2. Backup Bank Phone Number : 9WT12125550492
3. Main Settlement Phone Number : 9W11145550493
4. Backup Settlement Phone Number : 9W12125550368
5. Modem type : Hayes 1200
6. User Modem Initialization :
7. Host handler baud rate : 2400
8. Carrier wait timeout : 32
9. Verification timeout : 60
10. Host modem channel : 3
11. Instant On : Disable
12. Instant On timeout : 0

Enter Item Number, W-Walkthrough Edit, ENTER-Next Page, Q-Quit
At any time press ? for help:

```

To edit a parameter, enter its menu number.

The W option steps you through each parameter in the program as shown at the bottom of the screen. Press ENTER to see the next page. To get help, enter a '?'.

The following are additional network parameters.

```

CUSTOMER IDENTIFICATION

13. Acquirer BIN : 000000
14. Merchant ID : 000000000000
15. Store Number : 0000
16. Category Code for Island Sales :
17. Category Code for Console Sales :
18. Terminal Number : 0000
19. Agent Number : 000000
20. Chain Number : 000000
21. Location Number : 00001
22. Terminal Serial Number : 00000000

Enter Item Number, W-Walkthrough Edit, ENTER-Next Page, Q-Quit
At any time press ? for help:

```

Some banks require two category numbers for Island Card Reader (ICR) and Console sales, your bank may only require one category code. In this case, use the same category number for both category code entries.

```

LOCATION INFORMATION

23. Country Code : 840
24. Merchant City (ZIP) Code : 000000000
25. Time Zone Code : 108
26. Currency Code : 840
27. Language Code : 00
28. Site Name : John Doe's Gas
29. Site City : George
30. Site State : WA
31. $50 Island Override : Disabled

Enter Item Number, W-Walkthrough Edit, ENTER-Next Page, Q-Quit
At any time press ? for help:
    
```

Phone Numbers and Modem

Refer to your modem user manual for information on the phone number string. You can usually find it under the (Attention Dial Tone) ATDT command.

If your modem is compatible with the old Hayes 1200, Hayes 2400 Smartmodem or Hayes OPTIMA modem, then you only need to set the Modem type.

If your modem is not compatible with one of the three Hayes modems, consult your modem's user manual. You may need to change the initialization parameters to get your modem to work properly. First set parameter 5 to Hayes 1200. The new parameters can be then entered in parameter 6. These parameters are added onto the Hayes 1200 string listed below. Any changes made to modem parameters using the User Modem string will override the base string's value. *Note: Hayes modems accept a maximum of 40 characters in their command strings.*

Initialization strings used in basic setup:

Hayes 1200	ATV0X0Q0E0M1S0=0S7=255S9=3
Hayes Smartmodem/ Accura	ATV0X0Q0E0M1S0=0S7=255S9=3&M0X4&D2&C1&S
Hayes OPTIMA	ATV0X0Q0E0<P8>M1S0=0S7=255S9=3&Q0X4&D2&C1&S
Hayes Accura 33.6	Use Hayes 1200, SQ6 User modem initialization

If your modem is a Zoom 56K mode, set up the modem initialization as follows:

Set parameter 3, Modem Type to Hayes 1200

Set parameter 4, User Modem Initialization to `\N1%C0&K0X4S37=n`

The S37 register **n** depends on the baud rate being used for modem communications. For 1200 baud, set this value to **5**; for 2400 baud, set this value to **6**.

Note: Use the number zero, not the letter O in the initialization string.

\$50 Island Limit

The second and third pages of network parameters contain custom options for your site, including \$50 Island Override.

VISA requires a maximum purchase limit of \$50 at unattended terminals. If you have made arrangements with your VISA account representative for a higher limit, then the \$50 Override field in the network parameters can be enabled and the value entered in the Floor Limit field becomes the new maximum.

The default setting for the \$50 Override field is disabled. Should you choose to enable the \$50 override, Gasboy assumes no liability for charge-backs that may result.

Instant On - Feature Not Available

Instant On allows you to start pumping fuel before the purchase approval is received from the network host. This feature must be disabled. If enabled, it could allow transactions that should be denied to proceed, resulting in monetary loss. To disable Instant On, set network parameter **11. Instant On** to DISABLE.

Edit Credit Card Parameters (-C)

This table sets the purchase limits of various cards.

If an ICR is used, the Floor Limit value is requested from the host. VISA requires a \$50 limit if unattended ICRs are used.

If the account number is printed on the customer receipt when the purchase is done at an island card reader (check with your bank to see if they allow this), then set Print Acct field to Yes.

The Price Level field is used to set a special price level for a card: 1 is cash, 2 is credit. A special pricing level can be used for each card.

Delete Transaction from Batch (-D)

If you encounter errors with a transaction, the transaction can be deleted from the next settlement attempt. You need the transaction number (stored in the log) to delete it. You will then have to consult VISA about the deletion.

Print Current VISA System Configuration (-S)

This option prints the credit card parameters and VISA configuration parameters. Use this report to confirm your configuration with your bank. A sample report is shown below.

System Configuration Report					
Current Batch #:2					
Instant On - NO					
\$50 Island Override: Disabled					
VISA 'K' Account Parameters					
Acquirer BIN: 401205					
Merchant ID: 999999999911					
Store Number: 0011					
Terminal Number: 9911					
Island Category Code: 5540					
POS Category Code: 5541					
Agent Number: 111111					
Chain Number: 000000					
Location Number: 00001					
Terminal Serial ('V') Number: 123456578					
Country Code: 840					
Currency Code: 840					
Time Zone Code: 108					
Language Code: 00					
Site Name: John Doe's GAS					
Site City: George					
Site State: WA					
Card Parameters					
CARD	OK	Floor Limit	Show Acct	Price Level	Instant On - OK

1	Y	\$50	Y	2	No
2	Y	\$50	Y	2	No
3	Y	\$50	Y	2	No
4	Y	\$50	Y	2	No
5	Y	\$50	Y	2	No
6	Y	\$50	Y	2	No

Initialize Current VISA Configuration (-I)

This option resets all router values to defaults by erasing whatever changes you have entered. The network data tables affected are the Card Parameters and the Instant On pump tables. They will need to be reentered.

Category Codes

If your bank does not specify 2 different codes, enter the same code for both Island and POS sales.

Settlement

To begin settlement, run:
VISASTL

This calls settle several times, ensuring that both the inside and outside sales are posted. You may see the message "No settlement needed". This means that the batch was pushed through and the follow-up calls to settle were not necessary.

Special Operation For VisaNet

Cenex® Special Handler

The Cenex special handler has been tested and approved to be used with VisaNet router, with the following exceptions:

The Cenex Local Dual Card will not be accepted at the Profit Point when used with VisaNet. This configuration may also cause some extra benign parameter items to be printed on a receipt, when a credit sale follows a local Cenex card sale that prompts for an odometer or Vehicle number.

SETTLE Command

The VISASTL command is used to begin settlement with VISA. Authorizations will not be run until settlement is complete. On the log, you will see two settlement results: the first is for Island sales and the second for Console sales.

If you receive a duplicate batch error message, you can set the batch sequence number with `SETTLE -R nn` where nn is the new sequence number.

If you encounter a Memory Full error and have not reached settlement, first back up your transactions and your router parameters using `VISA-W` filename. Next, run `FIX TR;I` to clear up memory, restore your transactions, and restore the router parameters using `VISA-R` filename. You can then retry settlement.

The Transaction Pointer

If you do not poll and reset the transaction pointer regularly, then you should run the `PURGE SITE` command once a day so that you do not fill up the Site Controller's memory.

Transaction Format (TRFMT)

Ensure that the transaction printout format includes the authorization number (field type 3).

Restricting Bank Cards on ICRs at Night (-G)

To restrict the use of cards for payment at the Island during the night, run:
VISA -G0 (zero)

To allow the use of cards during the day, run:
VISA -G1 (one)

These commands should be loaded in crons for convenience. If using crons, the commands are:
VISA1 -G<0|1>

Restoring Transactions

After restoring transactions, you must run SETTLE -i to reset the batch pointers, else the next settlement will fail or will be out of balance.

Tables (TABLE)

- The receipt table must have at least 100 entries.
- Router table size is 218 + 22 X (# of transactions).
- Auth table should have 75 entries.

System Date

Ensure that the system date and time are set correctly and Print Date displays the date and time. Load Date allows you to change it.

System Parameters (SYS_PAR)

This information is provided for reference. The menu programs initialize and/or store the appropriate values in the system parameters.

Reader Verification - page 4

Use remote verification (reader): **credit**
Use local verification (reader): **none (or club)**
Check mod 10 (reader): **credit**
Check expiration date (reader): **credit**
Lockout on remote verification: **none**
Reader default payment is: **credit**

Console Verification - page 5

Use remote verification (console): **credit**
Use local verification (console): **none (or club)**
Check mod 10 (console): **credit**
Check expiration date (console): **credit**
Lockout on remote verification: **none**

Other Parameters - page 8

Host handler channel: (your host modem channel)

Host router data: This line is usually left blank.

More router data: This line is usually left blank.

Host handler baud rate: (VISA will assign this)

Send requests to host handler: club credit

Host handler data: 00 20 28 00 00 00 00 00 00 00 00 00 00 00 00

The first hex number is the modem type. Do not edit. This is referenced by the Visa menu.

The second number is the carrier wait timeout (leave at default value 20).

The third number is the Instant-on timeout (not implemented).

Verification timeout (Routers): 60. This should be a minimum of 30.

VisaNet Error Codes

Note: These codes were developed by VisaNet for its own use in diagnosing batch problems. Reading and understanding these codes is optional.

If VisaNet does not accept your batch transmission, your log printer will record an error code sent by VisaNet. All error codes and their explanations are shown below.

One possible error code begins with QD, which stands for duplicate batch, and one begins with RX, which stands for retransmit batch. All other error codes begin with RB, which stands for rejected batch. In the remaining characters in each error code, the groups of identical letters represent various fields:

- bbbbb represents the five-digit batch sequence number.
- dddd represents the batch transmission date.
- E, F, I, T, S, U, or D is the error category.
- nnnn represents the transaction sequence number.
- mm...mm represents a system error message.
- iiiiii represents the eight least significant digits of a record data field.
- tttttt represents the eight least significant digits of a total calculated by the data capture system.
- hhhh represents the record blocking number.
- vvvv represents the name of the table that caused the reject.
- xx...xx has a different meaning in different codes and is usually not significant.

The following table lists the VisaNet error codes and a description of each code.

Error Code	Description
QDbbbbbdddDUPLICATE BATCH	Duplicate Batch Sequence Number; Abort Transmission
RBbbbbbEnnn201xxxxxxxxxxxxxxxxxxx	Invalid Device Type
RBbbbbbEnnn202xxxxxxxxxxxxxxxxxxx	Invalid Record Type
RBbbbbbEnnn204xxxxxxxxxxxxxxxxxxx	Invalid Merchant File Data
RBbbbbbEnnn206xxxxxxxxxxxxxxxxxxx	Non-numeric Batch Sequence Number
RBbbbbbEnnn207xxxxxxxxxxxxxxxxxxx	Non-numeric Merchant Number
RBbbbbbEnnn208xxxxxxxxxxxxxxxxxxx	Non-numeric Store Number
RBbbbbbEnnn209xxxxxxxxxxxxxxxxxxx	Non-numeric Terminal Number
RBbbbbbEnnn210xxxxxxxxxxxxxxxxxxx	Non-numeric Blocking Number

Error Code	Description
RBbbbbEnnnn211xxxxxxxxxxxxxxxx	Non-numeric Currency Code
RBbbbbEnnnn212xxxxxxxxxxxxxxxx	Acquirer BIN either not numeric or in BIN Table
RBbbbbEnnnn213xxxxxxxxxxxxxxxx	Non-numeric Agent Number
RBbbbbEnnnn214xxxxxxxxxxxxxxxx	Non-numeric Merchant Chain Number
RBbbbbEnnnn231xxxxxxxxxxxxxxxx	Invalid Merchant Location (Dc Locator Code) in More Router Data
RBbbbbEnnnn301xxxxxxxxxxxxxxxx	Invalid Device Type
RBbbbbEnnnn302xxxxxxxxxxxxxxxx	Invalid Record Type
RBbbbbEnnnn304xxxxxxxxxxxxxxxx	Non-numeric Store Number
RBbbbbEnnnn305xxxxxxxxxxxxxxxx	Non-numeric Terminal Number
RBbbbbEnnnn306xxxxxxxxxxxxxxxx	Merchant Name Contains Illegal Characters
RBbbbbEnnnn307xxxxxxxxxxxxxxxx	Merchant City Contains Illegal Characters
RBbbbbEnnnn308xxxxxxxxxxxxxxxx	Merchant State Contains Illegal Characters
RBbbbbEnnnn309xxxxxxxxxxxxxxxx	Non-numeric Merchant Category Code
RBbbbbEnnnn310xxxxxxxxxxxxxxxx	Non-numeric Merchant Locator Number
RBbbbbEnnnn311xxxxxxxxxxxxxxxx	Non-numeric or Blocked Terminal Identification Number
RBbbbbEnnnn312xxxxxxxxxxxxxxxx	Non-numeric Merchant City Code
RBbbbbEnnnn313xxxxxxxxxxxxxxxx	Non-numeric Merchant Country Code
RBbbbbEnnnn314xxxxxxxxxxxxxxxx	Non-numeric or Invalid Merchant Security Code
RBbbbbEnnnn401xxxxxxxxxxxxxxxx	Invalid Device Type
RBbbbbEnnnn402xxxxxxxxxxxxxxxx	Invalid Record Type
RBbbbbEnnnn403xxxxxxxxxxxxxxxx	Non-supported Transaction Code
RBbbbbEnnnn404xxxxxxxxxxxxxxxx	Non-numeric Store Number
RBbbbbEnnnn405xxxxxxxxxxxxxxxx	Non-numeric Terminal Number
RBbbbbEnnnn406xxxxxxxxxxxxxxxx	Transaction Date Format Error
RBbbbbEnnnn407xxxxxxxxxxxxxxxx	Primary Account Number not Accepted
RBbbbbEnnnn408xxxxxxxxxxxxxxxx	Invalid Account Data Source Code
RBbbbbEnnnn409xxxxxxxxxxxxxxxx	Invalid Cardholder Identification Code
RBbbbbEnnnn410xxxxxxxxxxxxxxxx	Non-numeric Transaction Amount
RBbbbbEnnnn411xxxxxxxxxxxxxxxx	Invalid Void Indicator Code
RBbbbbEnnnn414xxxxxxxxxxxxxxxx	Non-numeric Transaction Sequence Number
RBbbbbEnnnn415xxxxxxxxxxxxxxxx	Transaction Time not 0 or Format Error
RBbbbbEnnnn416xxxxxxxxxxxxxxxx	Secondary Amount not supported and Non-zero
RBbbbbEnnnn501xxxxxxxxxxxxxxxx	Invalid Device Type
RBbbbbEnnnn502xxxxxxxxxxxxxxxx	Invalid Record Type
RBbbbbEnnnn504xxxxxxxxxxxxxxxx	Invalid Batch Transmit Date
RBbbbbEnnnn506xxxxxxxxxxxxxxxx	Non-numeric Batch Sequence Number
RBbbbbEnnnn507xxxxxxxxxxxxxxxx	Non-numeric Record Count
RBbbbbEnnnn508xxxxxxxxxxxxxxxx	Non-numeric Amount Hashing Total
RBbbbbEnnnn509xxxxxxxxxxxxxxxx	Non-numeric Cash Back Total
RBbbbbFnnnnmmmmmmmmmmmmmm	Batch Data Capture File is full

Error Code	Description
RBbbbblnnnnmmmmmmmmmmmm	A Write Error occurred on the Data Capture File
RBbbbbTnnnn507iiiiiii=tttttt	Batch Record Count not equal to records counted
RBbbbbTnnnn508iiiiiii=tttttt	Amount Hashing Total not equal to calculated Sum
RBbbbbTnnnn509iiiiiii=tttttt	Secondary Amount is not equal to calculated Sum
RBbbbbSnnnnxxxxxxxxxxxxxxxxxxxx	A Batch Record Type Sequence Error
RBbbbbUnnnnxxxxxxxxxxxxxxxxxxxx	Invalid Device, System Code, Data Type, Record Type, Transaction Code
RXxxxxxxxxxxxxxxxxxxxxxxxxxxxx	The First Record received was not a header record
RBbbbbDnnnn001hhh=tttt	Header Blocking Number does not match actual blocking
RBbbbbDnnnn002xxxxxxxxxxxxxxxxxxxx	Record Byte Count Error
RBbbbbDnnnn003xxxxxxxxxxxxxxxxxxxx	Blocking exceeds maximum allowed
RBbbbbXvvvv	Verification Table Reject
RBF	Exceeded Traffic Limits
RB00001C	Site is set for Discover, but bank does not allow Discover

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