



Merchant Batch Authorization and Deposit File Reference Guide

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V2.10

Merchant Batch Authorization and Deposit File Reference Guide V2.10

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Appendix C Amex Additional Amounts

Appendix D Network Response Codes

Appendix E Gift Card Totals Calculations

About This Guide

This guide describes the merchant batch authorization and deposit file.

Intended Audience

This document is intended for merchants intending to submit batch files for authorization and settlement.

Revision History

For revision history for this document prior to July 2018, consult your Relationship Manager.

This document has been revised as follows:

TABLE 1 Document Revision History

Doc. Version	Release Date	Description	Location(s)
2.10	02.28.24	Added Additional Network Account Type Request Indicator to Secondary File Header Field Attributes (see Table 1-2).	Chapter 1
		Added Account Type to Visa Additional Info Addendum Field Attributes (see Table 1-32).	
		Added Network Account Type to Additional Response Addendum Field Attributes (see Table 2-12)	Chapter 2
2.9	08.25.23	Added Request for Response Code indicator (see Secondary File Header)	Chapter 1
		Added new Response Codes (R1 through R7 (see Response Records))	Chapter 2

TABLE 1 Document Revision History

Doc. Version	Release Date	Description	Location(s)
2.8	06.16.23	Added Detail LoyaltyAddendum . Refined definition of option R and added option S to POS Environment Indicator field of Additional Request Addendum .	Chapter 1
2.7	10.01.21	Added a new value (RD - Decline do not attempt retry) to Table 2-3 and Table 2-4 for Response Code in Authorization Response Record - Version 2.1 or Earlier and Authorization Response Record - Version 2.2	Chapter 2
2.6	03.04.20	Updated Table A.1.31, "Payee Information Addendum #2 Processing" with missing reject codes.	Appendix A
2.5	01.08.2020	In Table 1-8, "Additional Request Addendum Field Attributes" , added Transaction Integrity Class Flag. In Table 1-24, "MasterCard Basic IC Presentment Addendum Field Attributes" , added Transaction Integrity Class. In Table 2-8, "MasterCard Authorization Response Addendum Field Attributes" , added the Transaction Integrity Class. In Table A-10, "Additional Request Information Processing Reject Codes" , added a reject code (DA 023 - Invalid Transaction Integrity Class Flag). In Table A-22, "MasterCard Basic IC Presentment Processing Reject Codes" , added the following reject codes: MB011 (Invalid Retrieval Reference Number), MB012 (Invalid Transaction Category Indicator), and MB013 (Invalid Transaction Integrity Class).	Chapter 1, Chapter 2, Appendix A
2.4	12.06.2019	Corrected the record type in Payee Response Addendum to RB.	Chapter 2.
2.3	09.04.2019	In Table 1-23, "Cap One Private Label Addendum Record" , changed the data type of the Cap One Indicator field from Numeric to Character.	Chapter 1
2.2	06.12.2019	Added Cap One Private Label Addendum Record . Added Cap One Private Label Processing .	Chapter 1, Appendix A
2.1	02.06.2019	For Additional Request Addendum , added the following values to POS Environment Indicator: F (Final Auth) and P (Preauth).	Chapter 1
2.0	10.31.2018	Re-branded entire document format due to the Vantiv-Worldpay merger; replaced many instances of "Vantiv" with "Worldpay."	All

TABLE 1 Document Revision History

Doc. Version	Release Date	Description	Location(s)
1.1	09.06.2018	Updated the POS Entry Mode field in Primary Transaction Detail Record Version 2.2 to include an entry of 10 for credentials on file.	Chapter 1
1.0	07.11.2018	This is a new guide.	NA

For questions or comments about this document, please address your feedback to the Technical Publications Department. All comments are welcome.

Technical Publications Contact Information

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Document Structure

This manual contains the following sections:

Chapter 1, "Request File Record Formats"

This chapter describes the s.

Chapter 2, "Response File Record Formats"

This chapter provides information about the response file record formats.

Appendix A, "Batch Authorization Reject Codes"

This appendix describes the input and output reject processing codes.

Appendix B, "Signed Amount Field Formats"

This appendix describes how you determine the character for the right-most digit for positive and negative amounts.

Appendix C, "Amex Additional Amounts"

This appendix lists the Amex additional amount values for good/services and taxes.

Appendix D, "Network Response Codes"

This appendix lists the network codes that return in the Authorization Number field of the R0 or RG record in the response file based on the merchant option for non-approved transactions.

Appendix E, "Gift Card Totals Calculations"

This appendix describes how Worldpay calculates gift card totals based on transaction type and reversal type.

Typographical Conventions

Table 2 describes the conventions used in this guide.

TABLE 2 Typographical Conventions

Convention	Meaning
.	Vertical ellipsis points in an example mean that information not directly related to the example has been omitted.
. . .	Horizontal ellipsis points in statements or commands mean that parts of the statement or command not directly related to the example have been omitted.
<>	Angle brackets are used in the following situations: • user-supplied values (variables) • XML elements
[]	Brackets enclose optional clauses from which you can choose one or more option.
bold text	Bold text indicates emphasis.
<i>Italicized text</i>	Italic type in text indicates a term defined in the text, the glossary, or in both locations.
blue text	Blue text indicates a hypertext link.
	This character represents a separator in examples and if for illustrative purposes only. I2 . 123456 0100 21 004000 You should not include it in any messages.
<fs>	In examples, this represents a field separator.
<gs>	In examples, this represents a group separator.
<rs>	In examples, this represents a record separator.

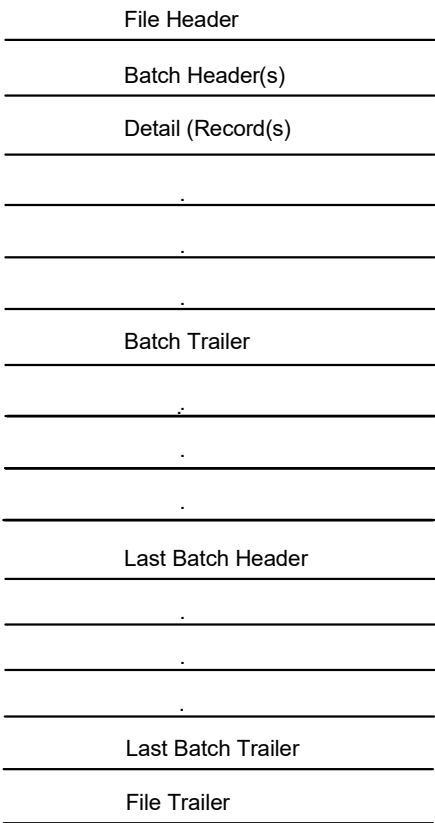
Request File Record Formats

This chapter provides information about the request file record formats.

Each batch should contain work for a single merchant settlement point. Each merchant can submit one or more batches. The file is in a standard fixed block format where each record is 80 bytes (IBM File DCB - RECFM = FB, LRECL= 80). If a record requires more than 80 bytes, use additional record types.

Figure 1-1 illustrates the basic record layout of a file.

FIGURE 1-1 Basic Request Record Layout



This chapter describes the following request file record formats:

- [Header Files](#)
- [Detail Records](#)
- [Addenda](#)
- [Trailer Records](#)

1.1 Header Files

A header record is a standard record of information regarding the transfer of a group of data (a batch). The header record contains information that is crucial for the successful processing of the batch.

The record formats discussed in this section are:

- [Primary File Header](#)
- [Secondary File Header](#)
- [Batch Header](#)
- [Secondary Batch Header](#)

1.1.1 Primary File Header

TABLE 1-1 Primary Header File Field Attributes

Field Description	Length In Bytes	Data Type	Comments
Record Type	2	Character	FH - File Header
Reserved	2	Character	Zero fill.
File Type	4	Character	BMAD
Request File Version No.	4	Character	• V2.0 • V2.1 - Indicates response addenda. • V2.2 - Indicates response addenda. Supports RA.
Reply File Version No.	4	Character	• V2.0 • V2.1 - Indicates response addenda. • V2.2 - Indicates response addenda. Supports RA.
Relative File Number	6	Numeric	The merchant chooses this.
Process Date	6	Character	Indicates the merchant business day date in YYMMDD format.
Originating ID	8	Character	This is a Worldpay-Assigned Originator ID.
Destination ID	8	Character	04200031
Creation Date	6	Character	YYMMDD
Creation Time	6	Character	HHMMSS
User Defined Description	20	Character	This contains a file description, which the merchant specifies.

TABLE 1-1 Primary Header File Field Attributes

Field Description	Length In Bytes	Data Type	Comments
Filler	4	Character	Blanks
		80 bytes total length	

1.1.2 Secondary File Header

TABLE 1-2 Secondary File Header Field Attributes

Field Description	Length in Bytes	Type	Comments
Record Type	2	Character	FQ - File Header
Reserved	2	Character	Zero fill.
File Type	4	Character	BMAD
Reserved	4	Character	Reserved blank
Discover Data Request Indicator	1	Character	- Y - Requested - N or ' ' - Not requested
Discover Network Reference ID Request Indicator	1	Character	- Y - Requested - N or ' ' - Not requested
Additional Response Addendum Request Indicator	1	Character	- Y - Requested - N or ' ' - Not requested
Additional Response Code Request Indicator	1	Character	- Y - Requested - N or ' ' - Not requested
Additional Network Account Type request Indicator	1	Character	- Y - Requested - N or ' ' - Not requested
Filler	63	Character	Blanks
		80 bytes total length	

1.1.3 Batch Header

TABLE 1-3 Batch Header Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	BH - Batch Header

TABLE 1-3 Batch Header Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Reserved	2	Character	Zero fill.
Relative Batch Number	6	Numeric	Contains the sequential number of the batch within the file. The first number is 00000. Worldpay increments it by one for each batch on file.
Process Date	6	Character	Contains the merchant business day date in YYMMDD format. This field must be less than or equal to the File Header process date.
Store Merchant Number	16	Character	Contains the settlement merchant number supplied by Worldpay. Left justify with trailing blanks. This is also known as Merchant Account Number or Merchant Identifier (MID).
Merchant Category Code	4	Numeric	Describes the merchant's type of business or service. If blank, Worldpay retrieves this field from its merchant database.
Merchant Name	25	Character	Contains the Store Name and its location within the city, if there is more than one store per city.
Merchant City	13	Character	
Merchant State	2	Character	Contains the two character alphabetic state abbreviation.
Merchant Country	3	Numeric	Contains one of the following Country Codes: • Blank - USA • 84 - USA • 124 - Canada
Filler	<u>1</u>	Character	Blank
		80 bytes total length	

1.1.4 Secondary Batch Header

Worldpay only requires this batch header if the batch comprises transactions with non-USA currency. If present, it must immediately follow the [Batch Header](#).

TABLE 1-4 Secondary Batch Header Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	BC - Batch Header Continued
Reserved	2	Character	Zero fill.
Relative Batch Number	6	Numeric	Contains the sequential number of the batch within the file. The first number is 000001. Worldpay increments it by one for each batch on file.
Currency Code	3	Numeric	Contains the Currency Code. - Blank - US Dollars 840 - US Dollars 124 - Canadian Dollars
Token Request Indicator	1	Character	- Y - Requested - N or ' ' - Not requested
Card Results Flag	1	Character	' ' - Unused - F - Full Customer Account Number - L - Last Four Digits of Customer Number - T - Truncated Card Number
Filler	<u>65</u>	Character	Blanks
		80 bytes total length	

1.2 Detail Records

This section describes the following records:

- [Primary Transaction Detail Record - Version 2.1 or Earlier](#)
- [Primary Transaction Detail Record - Version 2.1 or Earlier](#)
- [Gift Card Primary Transaction Detail Record](#)

1.2.1 Primary Transaction Detail Record - Version 2.1 or Earlier

TABLE 1-5 Primary Transaction Detail Record - Version 2.1 or Earlier Field Attributes

Field Description	Length in Bytes	DataType	Comments
Record Type	2	Character	D0 - Primary Detail Record
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the Sequential Number of the Transaction within batch. The first is 000001, which increments by one for each transaction in the batch.
Addendum Sequence Number	2	Numeric	Zero fill.
Transaction Type	1	Character	• P - Purchase If the Deposit Method is P, R, or S, then you must include the Authorization Code, Authorization Date, and Authorization Source; otherwise, leave these fields blank. • R - Refund Use C for the Deposit Method. You do not need the Authorization Code, Authorization Date, and the Authorization Source. • A - Verification Only • S - Online Reversal Use A for the Deposit Method, and you must include the Authorization Code. • T - Token from Card Request • K - Card from Token Request • C - Cardholder Funds Transfer - Credit • D - Cardholder Funds Transfer - Debit

TABLE 1-5 Primary Transaction Detail Record - Version 2.1 or Earlier Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Deposit Method	1	Character	- A - Authorization only, merchant originates the subsequent presentment (EMD record) - C - Create settlement (EMD record) if issuer approves authorization - F - Force Capture. Create settlement (EMD record) even if no authorization obtained - P - Settlement-only record (generates no authorization) - R - Partial Reversal authorization only, creates no settlement (EMD record) - S - Partial Reversal authorization with settlement (generates authorization and creates EMD record)
Draft Locator Number	11	Character	Contains the Merchant Transaction ID. If the card-issuing bank wants to research a transaction, it uses this field. For Worldpay Core IQ, you must make this alphanumeric and left justify it.
Cardholder Account Number	20	Numeric	Left justify this field and use trailing blanks. Set this field to blanks for transactions initiated using a token.
Card Expiration Date	4	Numeric	This field has a YYMM format. (If unavailable, set it to 9999 or 0000.)
Transaction Date	6	Character	Contains the date in YYMMDD format when the merchant delivered or shipped (if available) the merchandise. For authorizations, it contains the batch header process date. It cannot contain a date that occurred before the batch header process date.
Transaction Amount	8	Numeric	Uses DDDDDDDCC unsigned format. Make its value zero for address verification-only and Gift Card Expiration Initiation transactions.
Authorization Code	6	Character	Contains the Authorization Code issued by the card issuing bank. Used if authorization already obtained for transaction.

TABLE 1-5 Primary Transaction Detail Record - Version 2.1 or Earlier Field Attributes

Field Description	Length in Bytes	DataType	Comments
Authorization Date	6	Character	Contains the date on which you obtained the authorization code. If you did not already obtain an authorization, leave the field blank. It cannot contain a date that occurred before the transaction date.
POS Entry Mode	2	Numeric	Contains one of the following methods for card number entry at the POS: • 01 - Manual Card Number Entry (usual value) • 02 - Magnetic Stripe Read but not passed • 03 - Bar Code Read • 04 - OCR Read • 05 - Chip Card, CVV reliable • 06 - Track 1 Read • 07 - Contactless Chip, VSDC data • 10 - Credentials on file. All subsequent types of Visa COF transactions require this. • 90 - Complete magnetic stripe read and transmitted • 91 - Contactless Chip, track data • 95 - Chip Card, CVV may be unreliable

TABLE 1-5 Primary Transaction Detail Record - Version 2.1 or Earlier Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Authorization Source	1	Character	For non-presentments, make this blank. For presentments, use the value returned in the original authorization response, or use 5 if the response is not available. • 1 - STIP time out response • 2 - STIP response, amount below issuer limit • 3 - STIP response, issuer in suppress-inquiry mode • 4 - STIP response, issuer unavailable • 5 - Issuer approval • 6 - Force STIP • 7 - Acquirer approval, Base1/INAS unavailable • 8 - Acquirer approval of a referral • 9 - Response provided by automated referral service • D - Referral, authorization code manually keyed • E - Offline approval, authorization code manually keyed
POS Terminal Capability	1	Character	• 0 - Unknown • 1 - No terminal • 2 - Magnetic stripe reader • 3 - Contactless Chip • 4 - Contactless Chip, mag stripe • 5 - Chip card read capable • 9 - Key entry only, no electronic reading capability

TABLE 1-5 Primary Transaction Detail Record - Version 2.1 or Earlier Field Attributes

Field Description	Length in Bytes	DataType	Comments
Cardholder ID Method and Mail/Phone Indicator	1	Character	1 - Mail/phone order (single transaction) 2 - Mail/phone order - recurring transaction (bill payment) 3 - Mail/phone order - installment payment (bill payment) 4 - Mail/phone order - not otherwise classified 5 - Successful Verified by Visa Authentication 6 - Attempted Verified by Visa Authentication 7 - Some form of Internet Security, such as Secure Socket Layer (SSL) This is the usual value for electronic commerce transactions. 8 - No security method used 9 - Non-US merchant Secure Electronic Transaction (SET) purchase. - A - Face-to-face (signature) - B - PIN - C - Unattended terminal, no PIN - E - Unattended terminal, PIN capable
		80 bytes total length	

1.2.2 Primary Transaction Detail Record Version 2.2

TABLE 1-6 Primary Transaction Detail Record Version 2.2 Field Attributes

Field Description	Length in Bytes	DataType	Comments
Record Type	2	Character	D0 - Primary Detail Record
Reserved	1	Character	Zero fill.
Batch Transaction Number	6	Numeric	This is the sequential number of the transaction within the batch. The first is 000001, which is incremented by one for each transaction in the batch.
Addendum Sequence Number	2	Numeric	Zero

TABLE 1-6 Primary Transaction Detail Record Version 2.2 Field Attributes

Field Description	Length in Bytes	DataType	Comments
Transaction Type	1	Character	• P - Purchase If the Deposit Method is P, R, or S, then you must include the Authorization Code, Authorization Date, and Authorization Source; otherwise, leave these fields blank. • R - Refund Use C for Deposit Method. The Authorization Code, Authorization Date, and the Authorization Source are not required. • A - Verification Only • S - Online Reversal Use A for Deposit Method. You must use A for the Deposit Method and include the Authorization Code. • T - Token from Card Request • K - Card from Token Request • C - Cardholder Funds Transfer - Credit • D - Cardholder Funds Transfer - Debit
Deposit Method	1	Character	• A - Authorization only, the merchant originates subsequent presentment (EMD record) • C - Create settlement (EMD record) if the issuer approves the authorization • F - Force Capture. Create settlement (EMD record) even if no authorization obtained • P - Settlement-only record (generates no authorization) • R- Partial Reversal authorization only, settlement (EMD record) is not created • S - Partial Reversal authorization with settlement (generates authorization and creates EMD record)
Draft Locator Number	11	Character	Contains the Merchant Transaction ID. To be used to research transaction if requested by card issuing bank. This must be alphanumeric, left justified, for Worldpay Core IQ.

TABLE 1-6 Primary Transaction Detail Record Version 2.2 Field Attributes

Field Description	Length in Bytes	DataType	Comments
Cardholder Account Number	20	Numeric	Left justify and use trailing blanks. Set Cardholder Account Number to blanks for transactions initiated using a token.
Card Expiration Date	4	Numeric	YYMM (If unavailable, set to 9999 or 0000.)
Transaction Date	6	Character	YYMMDD - Date when the merchandise was delivered or shipped (if available), or for authorizations, the batch header process date. Cannot be greater than the batch header process date.
Transaction Amount	9	Numeric	DDDDDDDDCC unsigned. Zero for address verification only transactions and Gift Card Expiration Initiation transactions.
Authorization Code	6	Character	Contains the Authorization Code issued by the card issuing bank. Used if authorization already obtained for transaction.
Authorization Date	6	Character	Contains the date on which authorization code was obtained in YYMMDD format. If you did not already obtain authorization, leave this blank. It cannot contain a date that occurred before the transaction date.

TABLE 1-6 Primary Transaction Detail Record Version 2.2 Field Attributes

Field Description	Length in Bytes	DataType	Comments
POS Entry Mode	2	Numeric	Contains one of the following methods for card number entry at the POS: • 01 - Manual Card Number Entry (usual value) • 02 - Magnetic Stripe Read but not passed • 03 - Bar Code Read • 04 - OCR Read • 05 - Chip Card, CVV reliable • 06 - Track 1 Read • 07 - Contactless Chip, VSDC data • 10 - Credentials on file All subsequent types of Visa COF transactions require this. • 90 - Complete magnetic stripe read and transmitted • 91 - Contactless Chip, track data • 95 - Chip Card, CVV may be unreliable

TABLE 1-6 Primary Transaction Detail Record Version 2.2 Field Attributes

Field Description	Length in Bytes	DataType	Comments
Authorization Source	1	Character	For non-presentments, you must make this blank. For presentments, use the value returned in the original authorization response, or use 5 if the response is not available. Valid values are the following: • 1 - STIP time out response • 2 - STIP response (amount below issuer limit) • 3 - STIP response (issuer in suppress-inquiry mode) • 4 - STIP response (issuer unavailable) • 5 - Issuer approval • 6 - Force STIP • 7 - Acquirer approval (Base1/INAS unavailable) • 8 - Acquirer approval of a referral • 9 - Response provided by automated referral service • D - Referral (authorization code manually keyed) • E - Offline approval (authorization code manually keyed)
POS Terminal Capability	1	Character	• 0 - Unknown • 1 - No terminal • 2 - Magnetic stripe reader • 3 - Contactless Chip • 4 - Contactless Chip, mag stripe • 5 - Chip card read capable • 9 - Key entry only, no electronic reading capability

TABLE 1-6 Primary Transaction Detail Record Version 2.2 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Cardholder ID Method and Mail/Phone Indicator	1	Character	1 -Mail/phone order - single transaction 2 - Mail/phone order - recurring transaction (bill payment) 3 - Mail/phone order - installment payment (bill payment) 4 - Mail/phone order - not otherwise classified 5 - Successful Verified by Visa Authentication 6 - Attempted Verified by Visa Authentication 7 - Some form of Internet Security, such as Secure Socket Layer (SSL) - This is the usual value for electronic commerce transactions 8 - No security method used 9 - Non-US merchant Secure Electronic Transaction (SET) purchase - A - Face-to-face - signature - B - PIN - C - Unattended terminal, no PIN - E - Unattended terminal, PIN capable
		80 bytes total length	

1.2.3 Gift Card Primary Transaction Detail Record

NOTE: The TK record is the only valid addendum record you can use in conjunction with this record.

TABLE 1-7 Gift Card Primary Transaction Detail Record Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	G0 - Primary Detail Record
Reserved	2	Character	Zero fill.

TABLE 1-7 Gift Card Primary Transaction Detail Record Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Batch Transaction Number	6	Numeric	This is the sequential number of the transaction within batch. The first is 000001, which increments by one for each transaction in the batch.
Addendum Sequence Number	2	Numeric	Zero
Transaction Type	1	Character	• A - Activate • B - Balance Inquiry • C - Close • P - Purchase • F - Refund • L - Load • U - Unload
Reversal Type	1	Character	• A - Authorization (no reversal) • R - Reversal (Original Transaction Date and Time needed) • F - Forced Reversal (Original Transaction Date and Time not needed)
Cardholder Account Number	20	Numeric	Left justify and use trailing blanks. Set the Cardholder Account Number field to blanks for token initiated transactions.
Transaction Amount	8	Numeric	Uses a DDDDDDC unsigned format. Use zero for Gift Card Expiration Initiation transactions, Close transactions, and Balance Inquiries.
Reserved	2	Character	Blanks
Original Transaction Date	6	Character	You only need this for reversals. Use the YYMMDD format. Blank fill all other transactions.
Original Transaction Time	6	Character	You only need this for reversals. Use the YYMMDD format. All other transactions blank fill.
Gift Card Processing Indicator	1	Character	• Blank - Default (no special processing) • C - Pass back RC record for currency conversion

TABLE 1-7 Gift Card Primary Transaction Detail Record Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Retrieval Reference Number	12	Numeric	Contains the Authorization Retrieval Reference Number assigned to the transaction. This field is optional. Blank fill it if you do not need it.
Filler	<u>11</u>	Character	Blanks
	80 bytes total length		

1.3 Addenda

This section describes the following addenda:

- [Additional Request Addendum](#)
- [Magnetic Stripe Track Data Addendum Record 1](#)
- [Magnetic Stripe Track Data Addendum Record 2](#)
- [Transaction Description Addendum - Formatted Version](#)
- [Transaction Description Addendum - Freeform Version](#)
- [Discover Addendum 1, 2, and 3](#)
- [Reference Information Addendum](#)
- [American Express Detail Addendum](#)
- [American Express Retail Addendum Format, Record Type 1](#)
- [American Express Retail Addendum Format, Record Type 2](#)
- [American Express Retail Addendum Format, Record Type 3](#)
- [American Express Retail Addendum Format, Record Type 4](#)
- [American Corporate Card Addendum, Format Record Type A](#)
- [American Corporate Card Addendum, Format Record Type B](#)
- [American Corporate Card Addendum, Format Record Type C](#)
- [Cap One Private Label Addendum Record](#)
- [MasterCard Basic IC Presentment Addendum](#)
- [MasterCard Additional Info Addendum](#)
- [MasterCard Commercial Card and Level 2 Purchasing Card Addendum Type 1](#)
- [MasterCard Level 2 Purchasing Card Addendum Type 2](#)
- [MasterCard Level 3 Purchasing Card Addendum Type 3](#)
- [MasterCard Level 3 Purchasing Card Addendum Type 4](#)
- [MasterCard Corporate Card Addendum Format Version 7](#)
- [Visa Basic CPS Presentment Addendum](#)
- [Visa Additional Info Addendum](#)
- [Visa CPS Direct Marketing Presentment Addendum](#)
- [Visa Commercial Card and Level 2 Purchasing Card Addendum Type 1](#)
- [Visa Level 3 Purchasing Card Addendum Type 2](#)
- [Visa Level 3 Purchasing Card Addendum Type 3](#)
- [Visa Level 3 Purchasing Card Addendum Type 4](#)
- [Visa Level 3 Purchasing Card Addendum Type 5](#)
- [Bill Me Later Fields Addendum Record 1](#)
- [Bill Me Later Fields Addendum Record 2](#)
- [Bill Me Later Fields Addendum Record 3](#)

- [Bill Me Later Fields Addendum Record 4](#)
- [Bill Me Later Fields Addendum Record 5](#)
- [Bill Me Later Fields Addendum Record 6](#)
- [Bill Me Later Fields Addendum Record 7](#)
- [Bill Me Later Fields Addendum Record 8](#)
- [Bill Me Later Fields Addendum Record 9](#)
- [Bill Me Later Fields Addendum Record A](#)
- [Chargeback/Retrieval Facsimile Draft Information Addendum](#)
- [Facsimile Draft Description Addendum](#)
- [Facsimile Draft Shipping Information Addendum](#)
- [IIAS Auto-Substantiation Addendum Record](#)
- [Token Data Addendum Record](#)
- [EMV Addendum 1](#)
- [EMV Addendum 2](#)
- [EMV Addendum 3](#)
- [EMV Addendum 4](#)
- [Payee Information Addendum 1](#)
- [Payee Information Addendum 2](#)
- [Payee Information Addendum 3](#)

1.3.1 Additional Request Addendum

TABLE 1-8 Additional Request Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	DA - Address Verification Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	This is the sequential number of the transaction within batch.
Addendum Sequence Number	2	Numeric	This is incremented by one for each addendum associated with a transaction.

TABLE 1-8 Additional Request Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Cardholder Street Address	20	Character	Contains the first 20 positions of the cardholder statement mailing address. The card issuer matches the numeric portion of this data with that of the cardholder in their database when performing the address verification function. Present any numbers in the address in numeric format. For example, present One East Fifth as 1 East 5th.
Zip Code/Postal Code	9	Character	Left justify and blank fill.
CVV2 Presence Indicator	1	Numeric	Valid values are: • 0 - CVV2 bypassed or not provided • 1 - CVV2 value present • 2 - CVV2 value illegible • 9 - CVV2 value not on card Otherwise, leave this blank. Use this indicator for Amex CID also. Note: If either address verification information or CVV2 information is unavailable, leave the corresponding fields blank.
CVV2 (Amex CID) Value	4	Character	Contains the right justified CVV2 code or Amex CID. You must include this field when the CVV2 Presence Indicator is 1.
Transponder Initiated	1	Character	T - Transponder initiated Otherwise, leave this field blank.
Deferred Billing	1	Character	Y - Deferred billing Otherwise, leave this field blank.
Payment on Existing Debt	1	Character	9 - Payment on existing debt Otherwise, leave this field blank.
US Relationship Participant	1	Character	Y - Participant Otherwise, leave this field blank.

TABLE 1-8 Additional Request Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Market Specific Data Indicator	1	Character	Valid values are: • B - Bill Payment • M- Healthcare • T - Transit Otherwise, leave this field blank. Note: Cardholder ID method 2 and 3 are always considered bill payment.
CAT Level Indicator	1	Character	Contains the Cardholder Activated Terminal Level Indicator which is one of the following: • 1 - Automated Dispensing Machine • 2 - Self Service Terminal • 3 - Limited Amount Terminal • 6 - Electronic Commerce Otherwise, leave this field blank.
First Payment of Recur Payment	1	Character	Y - This is the first incidence of a particular recurring payment. Otherwise, leave this field blank.
Partial Authorization Indicator	1	Character	Y - Partial authorizations are supported Otherwise, leave this field blank.
PINless Conversion Request	1	Character	Y - The merchant wants Worldpay to attempt to convert the transaction to PINless bill payment. Otherwise, leave this field blank.
PINless Conversion Network	4	Character	Contains the network acronym sent in on RI PINless converted network response field. This is only sent on refunds or reversals when the original transaction was converted to PINless. Otherwise, leave this field blank.

TABLE 1-8 Additional Request Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
POS Environment Indicator	1	Character	• C- Credential on File • F - Final Auth • P - Preauth • R - Recurring transaction for Visa and Discover, Standing Order for Mastercard • S - Subscription transaction for Mastercard, Recurring for Visa and Discover • I - Installment Otherwise, leave this field blank.
Note: Subscriptions have a fixed recurring billing amount (e.g., newspapers, gym memberships, music or movie streaming service, etc.), while a Standing Order allows different recurring billing amounts (e.g., utilities).			
Estimated Auth Flag	1	Character	Y- Yes Otherwise, leave this field blank.
Subsequent Transaction Reason Code	1	Character	• 0 - Incremental • 1 - Resubmission • 2 - Delayed Charge • 3 - Reauthorization • 4 - No show Otherwise, leave this field
Visa Tran ID	15	Numeric	Visa Credential on File transactions require this field. You must send this field in the authorization request for Recurring, Installment Payment, Unscheduled COF, Resubmission, Reauthorization, Incremental, Delayed Charges, and No Show.
Transaction Integrity Class Flag	1	Character	• Y - The merchant wants Worldpay to send back the Transaction Integrity Class in the RM response addendum (if available). • N or blank - Worldpay will not respond with data.
Filler	2	Character	Blanks
		80 bytes total length	

1.3.2 Magnetic Stripe Track Data Addendum Record 1

Transactions acquired in a face-to-face environment using a magnetic stripe card reader can submit the magnetic stripe data in a batch authorization record for authorization processing. These transactions must include all the appropriate information required to qualify for a face-to-face interchange rate programs, including the POS Entry Mode, POS Terminal Capability, and other data in the Primary Transaction Detail Record and other records. These transactions must fully abide by the processing requirements of the face-to-face interchange programs offered by Visa and MasterCard. Transactions submitted using Track 1 Data must also submit the Magnetic Stripe Addendum Record 2 if the length of the track data exceeds 65 bytes. The merchant has the option of sending in either Track 1 or Track 2 data but cannot send both.

NOTE: Pass magnetic stripe track data only when the POS Entry Mode indicator in the Primary Transaction Detail Record (record type D0) is 90 or 91.

TABLE 1-9 Magnetic Stripe Track Data Addendum Record 1 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	T1 - Magnetic Stripe Track Data Addendum Record 1
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the Sequential Number of the Transaction within batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each record addendum associated with a transaction.
Track Type	1	Numeric	1 - Track 1 Data (maximum length of 76 bytes) 2 - Track 2 Data (maximum length of 37 bytes) Note: For Track I or Track II, remove the start sentinel, end sentinel, and LRC (Longitudinal Redundancy Check) digit.
Track Length	2	Numeric	Contains the actual length of Track Data included in Addendum Record(s).

TABLE 1-9 Magnetic Stripe Track Data Addendum Record 1 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Track Data Field 1	65	Character	- If the Track Type indicator equals 2, include the Track 2 Data in its entirety. The field separator for Track 2 should be '=' (X '7E'). Left justify the field with trailing blanks. - If Track Type indicator equals 1, include the first 65 bytes of the Track 1 Data in this field and include the remaining Track 1 Data in the Track Data Field 2 in the Magnetic Stripe Addendum Record 2. The field separator for Track 1 should be ';' (X '5E') or '^' (X '5F').
80 bytes total length			

1.3.3 Magnetic Stripe Track Data Addendum Record 2

Merchants submitting Track 1 Data may need to also submit the Magnetic Stripe Addendum Record 2. Worldpay does not require it if the Track Type indicator in the Magnetic Stripe Addendum Record 1 indicates that it provided Track 2 data.

NOTE: Pass magnetic stripe track data only when the POS Entry Mode indicator in the Primary Transaction Detail Record (record type D0) is 90 or 91.

TABLE 1-10 Magnetic Stripe Track Data Addendum Record 2 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	T2 - Magnetic Stripe Track Data Addendum Record 2
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the Sequential Number of the Transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each record addendum associated with a transaction.
Filler	3	Character	Blanks

TABLE 1-10 Magnetic Stripe Track Data Addendum Record 2 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Track Data Field 2	11	Character	If Track Type indicator in the Magnetic Stripe Addendum Record 1 equals 1 and the length of the track data exceeds 65 bytes, include the remaining Track 1 Data here. Note: For both Track I or Track II, remove the start sentinel, end sentinel, and LRC (Longitudinal Redundancy Check) digit.
Filler	<u>54</u>	Character	Blank
		80 bytes total length	

1.3.4 Transaction Description Addendum - Formatted Version

NOTE: Notify your merchant account executive prior to originating a Transaction Description Addendum, record type DD. It lets the merchant specify the transaction description on the customer's statement. You can use either the formatted version or the free-form version of this addendum; however, you cannot use both. Worldpay does not recommend using this addendum, because Visa and MasterCard have severe restrictions on what the customer's statement can include.

TABLE 1-11 Transaction Description Addendum - Formatted Version Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	DD -Transaction Description Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the Sequential Number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each addendum associated with a transaction.

TABLE 1-11 Transaction Description Addendum - Formatted Version Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Merchant Controlled Descriptor	13	Character	The merchant determines the entire descriptor using this field and the Merchant Descriptor field that follows. In the 25 characters available, the merchant must provide name information, followed by an * (asterisk), and variable information. The asterisk must appear in the 4th, 8th, or 13th position of this field. Visa transactions incorporate the entire 25-character description. MasterCard uses 22 characters.
Merchant Descriptor	12	Character	If the Merchant Controlled Descriptor is in use, use this field as the continuation of the descriptor. If the Merchant Controlled Descriptor is blank, the format will use both a 12-character merchant name, taken from the Merchant Master File (followed by an asterisk), and this field.
Filler	<u>43</u>	Character	Blanks
		80 bytes total length	

1.3.5 Transaction Description Addendum - Freeform Version

NOTE: Notify your merchant account executive prior to originating a Transaction Description Addendum (record type DD). It lets the merchant specify the transaction description on the customer's statement. You can use either the formatted version or the freeform version of this addendum; however, you cannot use both. Worldpay does not recommend using this addendum, because Visa and MasterCard have severe restrictions on what the customer's statement can include.

TABLE 1-12 Transaction Description Addendum - Freeform Version Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	DD - Transaction Description Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within batch.

TABLE 1-12 Transaction Description Addendum - Freeform Version Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Addendum Sequence Number	2	Numeric	Incremented by one for each addendum associated with a transaction
Full Merchant Descriptor	40	Character	Contains the transaction description.
Merchant Descriptor Indicator	1	Character	F
Filler	<u>27</u>	Character	Blanks
		80 bytes total length	

1.3.6 Discover Addendum 1, 2, and 3

This addendum contains native Discover values, which are found in the authorization response. Data submitted in this addendum transfers to presentment records.

TABLE 1-13 Discover Addendum 1, 2, and 3 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	DE - Discover Addendum
Reserved	2	Character	Blank
Batch Transaction Number	6	Numeric	Contains the Sequential Number of the Transaction within the batch. The first number 000001, which increments by one for each transaction in batch.
Addendum Sequence Number	1	Numeric	Incremented by one for each addendum associated with a transaction.
Addendum Version Number	1	Numeric	There are three versions of this record.
Version 1			
Cash Disbursement	12	Character	Use the ddddddddddcc unsigned format.
Part Ship Indicator	1	Character	Y or N or blank
Auth Date	4	Character	Use the MMDD format and zero fill or leave the field blank.
Auth Time	6	Character	Use the HHMMSS format and zero fill or leave the field blank.
External Merchant Number	16	Character	Use a numeric value and left justify it. The default is all blanks.

TABLE 1-13 Discover Addendum 1, 2, and 3 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Merchant Category Code	4	Character	Contains the MCC/Sic Code used in the authorization.
Auth Year	4	Character	Use the YYYY format or zero fill it.
Tran Time	6	Character	Use the HHMM00 format or zero fill it.
Processing Code	6	Character	Use a numeric value or zero fill it.
STAN	6	Character	Use a numeric value or zero fill it.
Track 1 Data Indicator	1	Character	0 - No Track 1 data is present. 1 - Track 1 data is present without CVV. 2 - Track 1 data is present with a non-zero and non-blank CVV. 3 - Track 1 data is present with a CVV set to all zeros. 4 - Track 1 data present with a CVV containing some or all blanks. 5 - Track 1 data is present but the issuer has not disclosed the CVV location.
Track 2 Data Indicator	1	Character	0 - No Track 2 data is present. 1 - Track 2 data is present without a CVV. 2 - Track 2 data is present with a non-zero and non-blank CVV. 3 - Track 2 data is present with a CVV set to all zeros. 4 - Track 2 data is present with a CVV containing some or all blanks. 5 - Track 2 data present but the issuer has not disclosed the CVV location.
Filler	<u>1</u>	Character	
80 Bytes Total Length			
Version 2 - Note that this version also includes the Record Type, Reserved, Batch Transaction Number, Addendum Sequence Number, and Addendum Version Number fields.			
POS Entry Mode	2	Character	
PIN Entry Capability	1	Character	
POS Data	13	Character	
Auth Response Code	2	Character	
Filler	<u>50</u>	Character	
80 Bytes Total Length			

TABLE 1-13 Discover Addendum 1, 2, and 3 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Version 3 - Note that this version also includes the Record Type, Reserved, Batch Transaction Number, Addendum Sequence Number, and Addendum Version Number fields.			
Network Reference ID	15	Character	
Sales Tax Amount	12	Numeric	Contains the total amount of sales tax in the DDDDDDDDDCC signed numeric (2 decimals) format. See Appendix B, Signed Amount Field Formats for more information.
Filler	<u>41</u>	Character	
		80 Bytes Total Length	

1.3.7 Reference Information Addendum

Worldpay allows up to two Reference Information Addenda per transaction.

TABLE 1-14 Reference Information Addendum Field Attributes

Field Descriptions	Length in Bytes	Data Type	Comments
Record Type	2	Character	DR - Reference Information Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch. The first number is 000001, which increments by one for each transaction in batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each addendum associated with a transaction.
Transaction Reference Data	68	Character	Contains the transaction reference information that the merchant uses to identify or describe this transaction. If provided in the transaction request file, Worldpay sends this information back to the merchant in the response file.
		80 Bytes Total Length	

1.3.8 American Express Detail Addendum

For Visa, Worldpay requires either this addendum or the [American Express Retail Addendum Format, Record Type 3](#).

You cannot use this in conjunction with AC records. To support these records, Worldpay requires the Transaction format code from the [American Express Retail Addendum Format, Record Type 1](#).

TABLE 1-15 American Express Detail Addendum Field Attributes

Field Description	Length in Bytes	Type	Comments
Record Type	2	Character	AX - American Express Detail Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Seq. Number	2	Numeric	Incremented by one for each addendum associated with a transaction.
Format Version Number	1	Character	1
AMEX Charge Descriptor	23	Character	AMEX defines this field.
Filler	44	Character	Blanks
		80 bytes total length	

1.3.9 American Express Retail Addendum Format, Record Type 1

AMEX presentment transactions require this addendum; Worldpay only allows one of these.

Transaction Type P, Deposit Method C, or F processing AC Records need to use this record. In this case, initialize the Transaction Identifier and POS DATA CODE with all spaces.

Transaction Type P and Deposit Method P should populate the Transaction Identifier and POS DATA CODE from the original Authorization Response.

TABLE 1-16 American Express Retail Addendum Format, Record Type 1 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Transaction Code	2	Character	AR - Amex Retail Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each addendum associated with a transaction.

TABLE 1-16 American Express Retail Addendum Format, Record Type 1 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Format Record Type	1	Character	1 record type
Transaction Identifier	15	Numeric	Should contain transaction id from the authorization response. Non-EMD merchants must supply this.
Transaction format code	2	Character	02 - Corp card 11- Lodging 20 - Retail Worldpay requires this field.
Media Code	2	Character	01 - Cardmember signature on file 02 - Phone order 03 - Mail order 04 - Internet order 05 - Recurring Fill with spaces if unused.
Currency Code	3	Character	Contains the currency of the transaction. USD - U.S. currency. Worldpay requires this field.
Terminal ID	8	Character	Identifies a specific terminal at a merchant location.
The next 12 fields as a group are called POS DATA CODE.			
Card Data Input Capability	1	Character	0 - unknown 1 - Manual, no terminal 2 - Magnetic stripe read 5 - Integrated Circuit Card 6 - Key entered - X - Magnetic stripe signature (future use) Worldpay requires this field.
Cardholder Authentication Capability	1	Character	0 - No electronic verification/unknown 6 - Other Worldpay requires this field.
Card Capture Capability	1	Character	0 - Unknown 1 - Capture Worldpay requires this field.

TABLE 1-16 American Express Retail Addendum Format, Record Type 1 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Operating Environment	1	Character	0 - No terminal or unknown 1 - On premises of card acceptor, attended 2 - On premises unattended 3 - Off premises of card acceptor attended 4 - Off premises unattended 5 - On premises of cardmember, unattended 9 - Delivery mode unknown - S - Electronic delivery of product - T - Physical delivery of product Worldpay requires this field.
Cardholder Present	1	Character	0 - Cardholder present 1 - Cardholder not present/unknown 2 - Mail order 3 - Phone order 4 - Cardholder not present, standing authorization 9 - Cardholder not present recurring billing - S - Internet Worldpay requires this field.
Card Present	1	Character	0 - Card not present 1 - Card present - W - Express Pay or Transponder (RFID) Worldpay requires this field.
Card Data Input Mode	1	Character	0 - Unknown 1 - Manual, no terminal 2 - Magnetic stripe read 5 - Integrated circuit 6-key entered - S - Manually entered or keyed transaction with keyed CID - W - Swiped with keyed CID - X - Magnetic stripe signature (future use) - Y - Magnetic stripe signature with keyed CID (future use) Worldpay requires this field.

TABLE 1-16 American Express Retail Addendum Format, Record Type 1 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Cardmember Authentication Method	1	Character	0 - Not authenticated; unknown 1 - PIN (future use) - S - Electronic ticket Worldpay requires this field.
Cardmember Authentication Entity	1	Character	0 - Not authenticated, unknown 1 - Integrated Circuit (future use) 2 - Card Acceptor Device 4 - By merchant 5 - Other Worldpay requires this field.
Card Data Output Capability	1	Character	0 - Unknown 1 - None Worldpay requires this field.
Terminal Output Capability	1	Character	0 - Unknown 1 - None 2 - Printing 3 - Display 4 - Printing and display Worldpay requires this field.
PIN Capture Capability	1	Character	0 - No PIN capture capability 1 - Device PIN capture capability unknown Worldpay requires this field.
Filler	25	Character	Blanks
		80 bytes total length	

1.3.10 American Express Retail Addendum Format, Record Type 2

This addendum is optional. If present, merchants must immediately precede it with [American Express Retail Addendum Format, Record Type 1](#). Worldpay only allows one of these record types.

TABLE 1-17 American Express Retail Addendum Format, Record Type 2 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	AR - Amex Retail Addendum

TABLE 1-17 American Express Retail Addendum Format, Record Type 2 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each addendum associated with a transaction.
Format Record Type	1	Character	2 record type
Retail Department Name	40	Character	Contains the Department where transaction occurred.
Filler	<u>27</u>	Character	Blanks

1.3.11 American Express Retail Addendum Format, Record Type 3

For AMEX, Worldpay requires either this addendum or the [American Express Detail Addendum](#). Worldpay allows up to six of these addenda. If you use this addendum, you must precede it with the [American Express Retail Addendum Format, Record Type 1](#).

TABLE 1-18 American Express Retail Addendum Format, Record Type 3 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	AR - Amex Retail Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each addendum associated with a transaction
Format Record Type	1	Character	3 record type
Retail Item Description	19	Character	You may use this on cardmember's statement or to dissolve disputes. Worldpay requires one occurrence.
Retail Item Quantity	3	Numeric	This is an optional field.
Retail Item Amount	10	Numeric	Format: DDDDDDDCC This is an optional field.
Filler	<u>35</u>	Character	Blanks
		80 bytes total length	

1.3.12 American Express Retail Addendum Format, Record Type 4

These addenda are optional. Worldpay allows up to five of these addenda. If you use this addenda, you must include one [American Express Retail Addendum Format, Record Type 3](#) and this addendum must follow it.

TABLE 1-19 American Express Retail Addendum Format, Record Type 4 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	AR - Amex Retail Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each addendum associated with a transaction.
Format Record Type	1	Character	4 record type
Additional Amount Type	3	Numeric	Reports the breakdown of charges (taxes, tips, fees, adjustment, and so on). The amounts are subtotals to and the transaction amount must include them. This is optional data. For valid values, see Appendix C, "Amex Additional Amounts" .
Additional Amount	10	Numeric	Use DDDDDDDDDCC format.
Additional Amount Sign	1	Character	+ or -
Filler	<u>53</u>	Character	Blanks
		80 bytes total length	

1.3.13 American Corporate Card Addendum, Format Record Type A

For AMEX corporate cards, merchants should supply the AC addendum. The [American Express Retail Addendum Format, Record Type 1](#) must precede this addendum. Worldpay only allows one of these record types. This record type must precede [American Corporate Card Addendum, Format Record Type B](#).

TABLE 1-20 American Corporate Card Addendum, Format Record Type A Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	AC - Amex Corporate Addendum
Reserved	2	Character	Zero fill.

TABLE 1-20 American Corporate Card Addendum, Format Record Type A Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each addendum associated with a transaction
Format Record Type	1	Character	A
Customer Code	17	Character	Contains the cardmember designated reference number, which is usually a P.O. number, cost center, or project number.
Ship to Postal Code	15	Character	Contains the ship to postal code or postal code of the merchant location. This field is required.
Total Tax Amount	10	Numeric	Contains the total tax amount in DDDDDDDDDCC format.
Filler	<u>25</u>	Character	Blanks
		80 bytes total length	

1.3.14 American Corporate Card Addendum, Format Record Type B

You must supply the AC addendum for AMEX corporate cards. The [American Express Retail Addendum Format, Record Type 1](#) must precede the AC addendum. This addendum is optional and Worldpay allows up to four instances. You must precede this record type with [American Corporate Card Addendum, Format Record Type A](#).

TABLE 1-21 American Corporate Card Addendum, Format Record Type B Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	AC - Amex Corporate Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each addendum associated with a transaction
Format Record Type	1	Character	B
Charge Description	40	Character	Contains a description of goods purchased. Worldpay requires at least one description.

TABLE 1-21 American Corporate Card Addendum, Format Record Type B Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Item Quantity	3	Numeric	Contains the quantities purchased. This is an optional field.
Item Amount	10	Numeric	Contains the unit cost of the item purchased. This is an optional field.
Filler	<u>14</u>	Character	Blanks
		80 bytes total length	

1.3.15 American Corporate Card Addendum, Format Record Type C

The addendum is optional; however, merchants should supply this addendum for AMEX corporate cards. Worldpay only allows one. You must precede it with [American Corporate Card Addendum, Format Record Type B](#).

TABLE 1-22 American Corporate Card Addendum, Format Record Type C Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	AC - Amex Corporate Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each addendum associated with a transaction.
Format Record Type	1	Character	C
Requestor Name	38	Character	Contains the name of the requester if the Cardmember is not the person that ordered the product/service
Filler	<u>29</u>	Character	Blanks
		80 bytes total length'	

1.3.16 Cap One Private Label Addendum Record

Merchants processing through the Cap One private label network may submit this addendum record.

TABLE 1-23 Cap One Private Label Addendum Record

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	C1 - Cap One Private Label Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of transactions within the batch.
Addendum Sequence Number	2	Numeric	Increments by one for each record addendum associated with a transaction.
Original Chain	1	Character	Indicator of chain of original purchase
Cap One Indicator	2	Character	Valid values are: - Blanks 21 (Scan and Go) 81 (Walmart Pay)
Rewards Exclusion Data	32	Character	Format: ANNNNNNNN where A is a rewards exclusion category and NNNNNNNN is a rewards exclusion amount in cents. This field can contain up to four categories/amounts (8 bytes x 4 = 32 bytes).
Filler	<u>33</u>	Character	Blanks
		80 bytes total length'	

1.3.17 MasterCard Basic IC Presentment Addendum

Merchants can use this addendum only when the Deposit Method is P, R or S or when the Transaction Type is S. If the Batch Authorization System originally authorized the transaction, the MasterCard Authorization Response Addendum (RM) with the original authorization approval returns the Interchange Compliance information required here.

TABLE 1-24 MasterCard Basic IC Presentment Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	MB - MasterCard Basic IC (Interchange Compliance) Presentment This is for deposit only.
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.

TABLE 1-24 MasterCard Basic IC Presentment Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Addendum Sequence Number	2	Numeric	Incremented by one for each addendum associated with a transaction.
BankNet Reference Number	9	Character	Contains what the authorization response returned.
BankNet Date	4	Numeric	Contains what the authorization response returned.
Merchant Category Code	4	Character	Contains the value the merchant presented in the authorization request. If the merchant presented this in the original authorization message, this field must match that code; otherwise, leave this field blank.
Cardholder Activated Terminal Level	1	Character	Valid values are: • Blank - Not applicable • 1 - Automated dispensing machine • 2 - Self-service terminal • 3 - Limited amount terminal • 6 - E-Commerce
Terminal ID	8	Character	Identifies the cardholder activated terminal. This field is optional.
CVC2 Result Code	1	Character	Contains the CVC2 Result Code from the authorization response or leave it blank.
Cash Back	5	Numeric	Contains the amount of cash given back to the customer as part of this transaction in DDDCC format. It can contain all blanks.
Service Code	3	Numeric	Contains the three-digit value from the magnetic stripe or from the chip of a bank card. Latin American merchants require this. It can contain all blanks.
Original Retrieval Reference Number	12	Numeric	Contains the Retrieval Reference Number returned by the Network in the original authorization. Partial reversals require this.
Transaction Category Indicator	2	Character	Valid values are: • 03 - Verified qualified healthcare expense • ' ' - Spaces allowed if not applicable
Transaction Integrity Class	2	Character	This contains the Transaction Integrity Class from the networks in the original authorization. It can contain all blanks.

TABLE 1-24 MasterCard Basic IC Presentment Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Filler	<u>17</u>	Character	Blanks
		80 bytes total length	

1.3.18 MasterCard Additional Info Addendum

If this addendum is present, the merchant must precede it with the [MasterCard Basic IC Presentment Addendum](#). Partial reversal transactions require this addendum. It also facilitates the Worldpay feature of automatic partial reversal generation.

For Deposit Method P transactions, if the authorized amount and total authorized amount on this addendum are equal and the transaction amount on the D0 record is a lesser amount, then Worldpay will automatically generate a partial reversal for settlement.

TABLE 1-25 MasterCard Additional Info Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	MC - MasterCard Additional Info Presentment Addendum.
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each addendum associated with a transaction.
Authorized Amount	12	Numeric	Contains the authorized amount that the original authorization request presented.
Total Authorized Amount	12	Numeric	The net amount of the original authorization and any subsequent partial reversal of the transaction
Original System Trace Audit #	6	Numeric	This is the System Trace Audit Number (STAN) that the original transaction used. Submit this for reversals and partial reversals. If not available, leave it blank or all zeros.
Filler	<u>38</u>	Character	Blanks
		80 bytes total length	

1.3.19 MasterCard Commercial Card and Level 2 Purchasing Card Addendum Type 1

If the merchant wants to pass on Level 2 information (sales tax and cardholder's purchase order/customer code), they must use the MasterCard purchasing card addendum. Additionally, the merchant has the opportunity to provide the freight amount, duty amount, alternate Tax Amount, and Ship from Postal Code.

TABLE 1-26 MasterCard Commercial Card and Level 2 Purchasing Card Addendum Type 1 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	MP - MasterCard Purchasing Card Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for the first Purchasing Card addendum associated with a transaction
Format Record Type	1	Character	1 - This is the first format record type for MasterCard Purchasing Card addenda.
Customer Code	17	Character	Contains a code supplied by the customer to the merchant. Left justify it with trailing blanks.
Sales Tax Collected Indicator	1	Character	This field indicates if sales tax is included in the transaction amount. Valid values are: 0 - Sales tax information not provided by merchant. Sales Tax Amount field is blank. 1 - The Sales tax included, and the Sales Tax Amount field has a value greater than zero. 2 - The sales tax is not assessed, and the merchant must fill the Sales Tax Amount field with zeros.
Sales Tax Amount	9	Numeric	Contains the sales tax or value-added tax on the purchase in DDDDDDDCC format.
Freight Amount	9	Numeric	Contains the freight on the total purchase in DDDDDDDCC format.
Duty Amount	9	Numeric	Contains the duty on the total purchase in the DDDDDDDCC format.

TABLE 1-26 MasterCard Commercial Card and Level 2 Purchasing Card Addendum Type 1 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
National Tax Collected Indicator	1	Character	Indicates if the national tax is included in the transaction amount--values are: 0 - The merchant did not provide the National Tax information. This field is blank. 1 - The merchant included the National Tax. National. This field is greater than zero value. 2 - The merchant did not assess the National Tax. This field National Tax Amount field must be filled with zeros.
National Tax Amount	9	Numeric	The national tax amount in DDDDDDDCC format
Ship from Postal Code	10	Character	The zip or postal code from which items were shipped
Reserved	2	Character	Blanks
		80 bytes total length	

1.3.20 MasterCard Level 2 Purchasing Card Addendum Type 2

If the merchant wants to pass on the Level 2 (sales tax and cardholder's purchase order/customer code), they must use this addendum. The merchant must immediately precede this addendum [MasterCard Commercial Card and Level 2 Purchasing Card Addendum Type 1](#). This addendum lets the merchant provide their order/invoice number (Merchant Reference Number) and the postal code for the delivery of the goods. The merchant's Type and Tax ID fields are optional; if the merchant does not supply these fields, Worldpay uses the Merchant Type and Tax ID on file for presentment to the network.

TABLE 1-27 MasterCard Level 2 Purchasing Card Addendum Type 2 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	MP - MasterCard Purchasing Card Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.

TABLE 1-27 MasterCard Level 2 Purchasing Card Addendum Type 2 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Addendum Sequence Number	2	Numeric	Contains the same sequence number supplied on the MasterCard Commercial Card and Level 2 Purchasing Card Addendum Type 1 related to this transaction.
Format Record Type	1	Character	2 - This is the second format record type for MasterCard Purchasing Card Addenda.
Destination Postal Code	10	Character	Contains the zip or postal code where the merchant will deliver the goods.
Destination Country Code	3	Character	Contains the country code where the merchant will deliver the goods.
Merchant Type	4	Character	Contains a 1099 supplier or any government-specified business.
Merchant Location Postal Code	10	Character	Contains the zip or postal code of the merchant site.
Merchant Tax ID	15	Character	Contains the merchant's federal tax or value-added tax ID number.
Merchant State/Province Code	3	Character	Contains the state or the province code for merchants outside of the U.S. Region
Merchant Reference Number	17	Character	
Reserved	<u>5</u>	Character	Blanks
		80 bytes total length	

1.3.21 MasterCard Level 3 Purchasing Card Addendum Type 3

If the merchant wants to pass Level 3 information, they must use this purchasing card addendum. This addendum lets the merchant describe each item within the purchase. Each purchasing card transaction can contain up to 998 record Type 3 addenda.

TABLE 1-28 MasterCard Level 3 Purchasing Card Addendum Type 3 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	MP - MasterCard Purchasing Card Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.

TABLE 1-28 MasterCard Level 3 Purchasing Card Addendum Type 3 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Addendum Sequence Number	2	Numeric	Contains the same sequence number supplied in the MasterCard Commercial Card and Level 2 Purchasing Card Addendum Type 1 related to this transaction.
Format Record Type	1	Character	3 - This is the third format record type for MasterCard Purchasing Card addenda.
Product Code	12	Character	Contains the product code of the item purchased.
Item Description	35	Character	Contains the description of the item purchased.
Item Quantity	5	Character	Contains the quantity of the item purchased.
Item Unit of Measure	3	Character	Contains a unit of measurement code.
Extended Item Amount	9	Numeric	Contains the purchase amount of the item.
Extended Item Amount Sign	1	Character	• C - Extended item amount is a credit • D - Extended item amount is a debit
Extended Item Amount Net/Gross Indicator	1	Character	Valid values are: • Y - Includes tax • N - No tax included
Filler	<u>1</u>	Character	Blank
		80 bytes total length	

1.3.22 MasterCard Level 3 Purchasing Card Addendum Type 4

This addendum is optional if the merchant wants to pass on Level 3 information. If the merchant submits this addendum, they must precede it with [MasterCard Level 3 Purchasing Card Addendum Type 3](#).

TABLE 1-29 MasterCard Level 3 Purchasing Card Addendum Type 4 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	MP - MasterCard Purchasing Card Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.

TABLE 1-29 MasterCard Level 3 Purchasing Card Addendum Type 4 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Addendum Sequence Number	2	Numeric	Contains the same sequence number supplied in the MasterCard Commercial Card and Level 2 Purchasing Card Addendum Type 1 related to this Purchasing Card transaction.
Format Record Type	1	Character	4 - This is the fourth format record type for MasterCard Purchasing Card Addenda.
Value-Added Tax Rate	5	Numeric	Contains the decimal rate of the value-added tax applied to the purchase amount of the item.
Value-Added Tax Type	4	Character	Contains the type of value-added tax applied.
Value-Added Tax Amount	9	Numeric	Contains the amount of value-added tax on the purchase amount of the item in DDDDDDDCC format.
Discount Indicator	1	Character	- Y - Discount applied - N - No discount
Discount Amount	9	Numeric	The amount of the discount applied to the purchase in DDDDDDDCC format.
Filler	<u>39</u>	Character	Blanks
		80 bytes total length	

1.3.23 MasterCard Corporate Card Addendum Format Version 7

Corporate Large Ticket Payment Gateway, Rate I MPG, Rate II MPG, and Rate III MPG require this corporate card addendum. Worldpay allows up to 97 of these addenda per transaction.

TABLE 1-30 MasterCard Corporate Card Addendum Format Version 7 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	M7 - Mastercard Corporate Card Addendum Format Version 7
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Sequential number of the transaction within batch
Addendum Sequence Number	2	Numeric	Incremented by one only for the first M7 addendum within a transaction. Note that all M7 addenda within a transaction must have the same addendum sequence number.

TABLE 1-30 MasterCard Corporate Card Addendum Format Version 7 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Format Record Type	1	Character	P - The 25th record type for this format version number
Invoice Number	25	Character	Invoice Number(s) associated with Payment Gateway transaction
Filler	<u>42</u>	Character	Blanks
		80 bytes total length	

1.3.24 Visa Basic CPS Presentment Addendum

Worldpay only allows this addendum when the Deposit Method is P, R or S or if the Transaction Type is S. If previously authorized through the Batch Authorization System, the merchant can locate the CPS information for this record in the [Visa Authorization Response Addendum](#), returned in the original authorization's response file. For Deposit Method P transactions, if the authorized amount and total authorized amount on this addendum are equal, and the transaction amount on the D0 record is a lesser amount, then Worldpay will automatically generate a partial reversal for presentments.

TABLE 1-31 Visa Basic CPS Presentment Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	VB - Visa Basic CPS (Custom Payment Services) Presentment (for deposit only)
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each addendum associated with a transaction.
Authorized Amount	12	Character	Uses DDDDDDDDDCC unsigned format presented in the original Authorization Request.
Authorized Amount Currency	3	Character	Contains the value presented in the original Authorization Request (not used).
Authorization Characteristics Indicator	1	Character	Contains the value returned in the original authorization response.
Visa Authorization Response Code	2	Character	Contains the value returned in the original authorization response.
Transaction Identifier	15	Character	Contains the value returned in the original authorization response.

TABLE 1-31 Visa Basic CPS Presentment Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Validation Code	4	Character	Contains the value returned in the original authorization response.
Merchant Category Code	4	Character	Contains the value the merchant presented in the authorization request. If the merchant presented this in the original authorization message, this field must match that code; otherwise, leave this field blank.
Total Authorized Amount	12	Numeric	Contains the net amount of the original authorization and any partial reversal of a transaction. For an Online reversal, this amount should equal the Authorized Amount.
Cardholder Activated Terminal Indicator	1	Character	Worldpay requires this field for CPS automated fuel dispensing; if left blank, Worldpay interprets the field as not applicable. Valid values are: • 1 - Limited amount terminal • 2 - Automated dispensing machine • 3 - Self service terminal • 6 - Electronic Commerce
Original Retrieval Reference Number	12	Numeric	Contains the Retrieval Reference Number as returned by the network in the original transaction authorization. Partial reversals require this.
Market Specific Data Indicator	1	Character	Leave this field blank or use one of the following valid values: • B - Indicates bill payment Note: Worldpay always considers Cardholder ID method 2 and 3 as bill payment. • M - Verified healthcare transaction • T - Verified transit transaction
CVV2 Result Code	1	Character	Leave this field blank or use the CVV2 Result Code from the authorization response.
80 bytes total length			

1.3.25 Visa Additional Info Addendum

If this addendum is present, the merchant must precede it with a VB addendum. Use this addendum to support additional Visa presentment information.

TABLE 1-32 Visa Additional Info Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	VC - Visa Additional Info Presentment Addendum.
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each addendum associated with a transaction
Card Level Results Code	2	Character	This is the Visa Card Level Results or blanks.
Account Type	2	Character	Contains the Visa account type or blanks.
Filler	64	Character	Blanks
		80 bytes total length	

1.3.26 Visa CPS Direct Marketing Presentment Addendum

Merchants should include this record when:

- The Deposit Method specified on the transaction's Primary Detail Record (Record Type D0) is P, R, or S and a Mail Order/Phone Order transaction qualified for CPS Direct Marketing during authorization (Authorization Characteristics Indicator is V)
- The transaction was electronic commerce (Authorization Characteristics Indicator is W)

If the Batch Authorization System authorized the original transaction, the AVS Response Code needed for this record was returned in the Authorization Response Record (Record Type R0) of the original authorization approval.

TABLE 1-33 Visa CPS Direct Marketing Presentment Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	VD -Visa CPS Direct Marketing Presentment (for deposit only)
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each addendum associated with a transaction.

TABLE 1-33 Visa CPS Direct Marketing Presentment Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
AVS Response Code	1	Character	Contains the address verification response code as returned in original authorization response.
Merchant Telephone Number	10	Numeric	Contains the merchant's customer service telephone number that will appear in the merchant city field on the cardholder statement. Worldpay requires the full number including the area code.
Purchase Identifier Format Code	1	Character	1 - Purchase identifier is order number 2 - Purchase identifier is customer defined data
Purchase Identifier	25	Character	Contains the merchant's order number or company-specified data as determined by the purchase identifier format code. Left justify this field.
Purchase Type	1	Character	Contains the e-commerce purchase type, representing the type of purchase. Valid values are: - D - Digital - P - Physical This field is optional.
Filler	<u>30</u>	Character	Blanks
		80 bytes total length	

1.3.27 Visa Commercial Card and Level 2 Purchasing Card Addendum Type 1

If the merchant wishes to pass on the Level 2 information (sales tax and any purchase order/ID supplied by the cardholder), Worldpay requires this addendum.

TABLE 1-34 Visa Commercial Card and Level 2 Purchasing Card Addendum Type 1 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	VP - Visa Purchasing Card Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.

TABLE 1-34 Visa Commercial Card and Level 2 Purchasing Card Addendum Type 1 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Addendum Sequence Number	2	Numeric	Incremented by one from the preceding addendum associated with this transaction.
Format Record Type	1	Character	1 - This is the first format record type for this Visa Purchasing Card addenda.
Sales Tax Collected Indicator	1	Character	Indicates if the sales tax is included in the transaction amount. Valid values are: 0 - The merchant does not provide the Sales Tax information. 1 - The merchant included the sales tax. The field has a value greater than zero. 2 - The merchant did not assess the Sales Tax information. You must fill the Sales Tax Amount field with zeros.
Sales Tax Amount	9	Numeric	Indicates the amount of sales tax included in the transaction amount in DDDDDDDCC unsigned format.
Reserved	1	Character	Blank
Customer Code/Customer Reference ID (CRI)	17	Character	Identifies the purchase to the issuer and the cardholder. Left justify and space fill this field.
Reserved	8	Character	Blanks
National Tax Collected Indicator	1	Character	Indicates if the transaction amount includes the national tax. Valid values are: 0 - The merchant did not provide the national tax information. The National Tax Amount field is blank. 2 - The merchant did not assess the National Tax. - Fill the National Tax Amount field with zeros.
National Tax Amount	9	Numeric	Contains the amount in DDDDDDDCC unsigned format.
Other Tax Amount	9	Numeric	Contains the amount in DDDDDDDCC unsigned format.
Reserved	12	Character	Blanks
		80 bytes total length	

1.3.28 Visa Level 3 Purchasing Card Addendum Type 2

Worldpay requires this purchasing card addendum for merchants who want to pass Level 3 information. It lets them provide their own order/invoice number to the cardholder's company.

TABLE 1-35 Visa Level 3 Purchasing Card Addendum Type 2 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	VP - Visa Purchasing Card Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Contains the same sequence number supplied on the Type 1 addendum related to this Purchasing Card transaction.
Format Record Type	1	Character	2 - This is the second format record type for this Visa Purchasing Card addenda.
Merchant VAT/SBR Number	20	Character	Contains the merchant's VAT registration number or a Single Business Reference Number.
Customer VAT Number	13	Character	Contains the customer's VAT registration number.
Merchant Order Number	12	Character	
Summary Commodity Code	4	Character	Contains the national standard coding structure for the description of goods.
Discount Amount	9	Numeric	Contains the amount in DDDDDDDCC unsigned format.
Freight/Shipping Amount	9	Numeric	Contains the amount in DDDDDDDCC unsigned format.
		80 bytes total length	

1.3.29 Visa Level 3 Purchasing Card Addendum Type 3

If the merchant wishes to pass Level 3 information onto the cardholder's company, Worldpay requires this addendum.

TABLE 1-36 Visa Level 3 Purchasing Card Addendum Type 3 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	VP - Visa Purchasing Card Addendum

TABLE 1-36 Visa Level 3 Purchasing Card Addendum Type 3 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Contains the same sequence number supplied on the Type 1 addendum related to this Purchasing Card transaction.
Format Record Type	1	Character	3 - This is the third format record type for this Visa Purchasing Card addenda.
Duty Amount	9	Numeric	Use DDDDDDDCC unsigned format.
Ship From Postal/Zip Code	10	Character	
Destination Postal/Zip Code	10	Character	
Destination Country Code	3	Character	
Order Date	6	Numeric	Use YYMMDD format.
VAT Invoice Reference Number VAT/Tax Amount	15	Character	
Freight/Shipping VAT/Tax Rate	9	Numeric	Use DDDDDDDCC unsigned format.
Freight/Shipping	4	Numeric	Contains a percentage rate that assumes two decimal positions.
Reserved	1	Character	Blanks
		80 bytes total length	

1.3.30 Visa Level 3 Purchasing Card Addendum Type 4

Worldpay requires this purchasing card addendum if the merchant wants to pass Level 3 information to the cardholder's company. It lets the merchant describe each item within the purchase. Each Visa purchasing card transaction can have up to 999 Type 4 addenda.

TABLE 1-37 Visa Level 3 Purchasing Card Addendum Type 4 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	VP - Visa Purchasing Card Addendum

TABLE 1-37 Visa Level 3 Purchasing Card Addendum Type 4 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Contains the same sequence number supplied on the Type 1 addendum related to this Purchasing Card transaction.
Format Record Type	1	Character	4 - This is the fourth format record type for this Visa Purchasing Card addenda.
Item Commodity Code	12	Character	
Reserved	3	Character	Blanks
Item Description	24	Character	
Unit of Measure Code	7	Character	
Unit Cost	11	Numeric	Use DDDDDDDCCCC unsigned format.
Quantity	10	Numeric	Contains the quantity to 4 decimal places.
		80 bytes total length	

1.3.31 Visa Level 3 Purchasing Card Addendum Type 5

Use this addendum to pass Level 3 information onto the cardholder's company. It lets the merchant further describe each item within the purchase. This is an optional addendum. If present, it must follow [Visa Level 3 Purchasing Card Addendum Type 4](#). Along with record Type 4, each Visa purchasing card transaction can have up to 999 Type 4/Type 5 addenda.

TABLE 1-38 Visa Level 3 Purchasing Card Addendum Type 5 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	VP - Visa Purchasing Card Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Contains the same sequence number supplied on Type 1 addendum related to this Purchasing Card transaction.
Format Record Type	1	Character	5 - This is the fifth format record type for this Visa Purchasing Card addenda.

TABLE 1-38 Visa Level 3 Purchasing Card Addendum Type 5 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Reserved	2	Character	Blanks
VAT/Tax Amount	9	Numeric	Use DDDDDDDCC unsigned format.
VAT/Tax Rate	4	Numeric	Contains the percentage rate at line item level, assuming two decimal positions.
Product Code	12	Character	Contains the merchant product identifier.
Discount/Line Item	9	Numeric	Contains the discount on this line item in DDDDDDDCC unsigned format.
Line Item Total	9	Numeric	Use DDDDDDDCC unsigned format.
Reserved	22	Character	Blank
		80 bytes total length	

1.3.32 Bill Me Later Fields Addendum Record 1

A BML transaction requires at least one of the 9 BML addenda. For settlement-only transactions, this is the only addendum needed.

If none of the fields in a record are applicable for a particular transaction, you may omit the record. Worldpay will not enforce the business rules that mandate which fields are required; however, if you omit a necessary field or record, the BML network may deny the transaction. Also, you should submit the BML addenda in sequence.

NOTE: Non-BML transactions should not use any of the BML addenda.

TABLE 1-39 Bill Me Later Fields Addendum Record 1 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	L1 - Bill Me Later® Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each addendum associated with a transaction.
External BML Merchant ID	15	Character	Required
Filler	<u>53</u>	Character	Blanks

TABLE 1-39 Bill Me Later Fields Addendum Record 1 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
	80 bytes total length		

1.3.33 Bill Me Later Fields Addendum Record 2

TABLE 1-40 Bill Me Later Fields Addendum Record 2 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	L2 - Bill Me Later® Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each addendum associated with a transaction
Customer Name	40	Character	If fname + lname>30, submit the first 5 characters of fname, a blank space, an asterisk, and then the first 23 characters of lname.
Customer SSN	9	Numeric	Contains the last 4 digits in left zero format.
Alternate Telephone Type	1	Character	• H - Home • W - Work • D - Day • N - Night
Alternate Telephone Number	14	Character	Contains the phone number in AAAEEENNNNNXXXX format, where AAA is the area code, EEE is the exchange, NNNN is the number and XXXX is extension.
Filler	<u>4</u>	Character	Blanks
	80 bytes total length		

1.3.34 Bill Me Later Fields Addendum Record 3

TABLE 1-41 Bill Me Later Fields Addendum Record 3 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	L3 - Bill Me Later® Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each addendum associated with a transaction.
Bill-To Address Line 1	40	Character	
Bill-To City	18	Character	
Bill-To State	2	Character	
Filler	8	Character	Blanks
80 bytes total length			

1.3.35 Bill Me Later Fields Addendum Record 4

TABLE 1-42 Bill Me Later Fields Addendum Record 4 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	L4 - Bill Me Later® Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each addendum associated with a transaction.
Bill-To Address Line 2	40	Character	
Bill-To Zip	9	Character	
Bill-To Country	3	Character	
Filler	16	Character	Blanks
80 bytes total length			

1.3.36 Bill Me Later Fields Addendum Record 5

TABLE 1-43 Bill Me Later Fields Addendum Record 5 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	L5 - Bill Me Later® Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each addendum associated with a transaction.
Shipping and Handling Cost	8	Numeric	Use DDDDDDDC unsigned format.
Customer Home Phone	10	Numeric	
Customer E-mail Address	50	Character	
		80 bytes total length	

1.3.37 Bill Me Later Fields Addendum Record 6

TABLE 1-44 Bill Me Later Fields Addendum Record 6 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	L6 - Bill Me Later® Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each addendum associated with a transaction.
Delivery Type	3	Character	- CNC - Cash and carry - DIG - Digital good - PHY - Physical delivery required - SVC - Service - TBD - To be determined On mixed orders, merchants should select the type that best fits the basket.
Customer DOB	8	Numeric	Use ccyyymmdd format.

TABLE 1-44 Bill Me Later Fields Addendum Record 6 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Terms and Conditions Code	5	Character	
Customer Registration Date	8	Numeric	Use ccyymmdd format.
Item Category Code	4	Numeric	Contains a BML-defined code.
Ship-To Name	40	Character	If fname + lname > 30, submit the first 5 characters of fname, a blank space, an asterisk, and then the first 23 characters of lname.
		80 bytes total length	

1.3.38 Bill Me Later Fields Addendum Record 7

TABLE 1-45 Bill Me Later Fields Addendum Record 7 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	L - Bill Me Later® Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each addendum associated with a transaction
Ship-To Address Line 1	40	Character	
Ship-To City	18	Character	
Customer Type Flag	2	Character	- N - New - E - Existing
Filler	8	Character	Blanks
		80 bytes total length	

1.3.39 Bill Me Later Fields Addendum Record 8

TABLE 1-46 Bill Me Later Fields Addendum Record 8 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	L8 - Bill Me Later® Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each addendum associated with a transaction.
Ship-To Address Line 2	40	Character	
Ship-To Zip	9	Character	
Ship-To State	2	Character	
Ship-To Country	3	Character	
Filler	<u>14</u>	Character	Blanks
		80 bytes total length	

1.3.40 Bill Me Later Fields Addendum Record 9

TABLE 1-47 Bill Me Later Fields Addendum Record 9 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	L9 - Bill Me Later® Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each addendum associated with a transaction.
Preapproval Invitation Number	16	Numeric	Contains a number that BML assigns.
Gross HH Income Currency Type	3	Character	USD - U.S. Dollars in ISO format
Gross HH Annual Income	10	Numeric	The value implies two decimal places.

TABLE 1-47 Bill Me Later Fields Addendum Record 9 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Merchant Promotional Code	4	Numeric	
Customer IP Address	20	Character	
Customer Work Telephone	10	Numeric	
Customer Checking Acct	1	Character	• T - True • F - False • Space - Unknown
Customer Savings Acct	1	Character	• T - True • F - False • Space - Unknown
Filler	<u>3</u>	Character	Blanks
	80 bytes total length		

1.3.41 Bill Me Later Fields Addendum Record A

TABLE 1-48 Bill Me Later Fields Addendum Record A Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	LA - Bill Me Later® Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each addendum associated with a transaction.
Merchant Order Number	25	Character	Cross-references a merchant's internal order number.
Customer Employer	20	Character	
Customer Residence Status	1	Character	• O - Own • R - Rent • X - Other
Customer Years at Residence	2	Numeric	

TABLE 1-48 Bill Me Later Fields Addendum Record A Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Customer Years at Employer	2	Numeric	
Orig Authentication Control Code	6	Character	Contains BML tracking number for authentication used for Reauthorizations.
Product Type	2	Character	- BL - BML - RS - RSPA If the bin is 621993, you cannot use BML. If you do not supply a value, the default is BML.
IATA Number	10	Numeric	Contains the Travel Agency ID. Left zero fill this field.
		80 bytes total length	

1.3.42 Chargeback/Retrieval Facsimile Draft Information Addendum

Worldpay requires this addendum for merchants supporting facsimile drafts. It supports descriptive information for chargeback and retrieval reporting including facsimile drafts.

TABLE 1-49 Chargeback/Retrieval Facsimile Draft Information Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	FI - Chargeback/Retrieval Facsimile Draft Transaction Information
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Seq. Number	2	Numeric	Increment by one for each addendum associated with a transaction.
Card Expiration Date	4	Numeric	Contains the expiration date on the card in YYMM format.
Local Transaction Time	4	Numeric	Contains the local time at which the transaction occurred in HHMM format.
Store Number	4	Numeric	Contains the store number where the consumer purchased the merchandise.
Register Number	4	Numeric	Contains the register number where the consumer purchased the merchandise.

TABLE 1-49 Chargeback/Retrieval Facsimile Draft Information Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Transaction Sequence No.	6	Numeric	Contains the sequence number identifying the transaction. Right-justify and zero-fill this field.
Salesperson Number	9	Numeric	Contains the number of the salesperson who sold the merchandise.
Total Merchandise Desc.	2	Numeric	Indicates the number of merchandise descriptions for this transaction. The maximum allowed is 30. Description information follows in the Facsimile Draft Description Addendum .
Ship - to Indicator	1	Character	Indicates if the merchant shipped the merchandise. - Y - Yes - N - No
Balanced Draft Indicator	1	Character	Indicates whether the merchandise description amounts net to the same as Transaction Amount in the Detail Transaction record. - Y - Balanced Only print a facsimile draft if the net merchandise description amounts equal the transaction amount. - N - Not balanced Produces a facsimile draft anyway.
Batch Number	4	Numeric	Identifies the batch number in which Worldpay captured this transaction.
Terminal ID	10	Character	Identifies the terminal in which Worldpay captured the transaction.
AVS Response Code	1	Character	Contains the address verification response code that the original authorization response returned.
Filler	<u>18</u>	Character	Blank
		80 bytes total length	

1.3.43 Facsimile Draft Description Addendum

Merchants who support facsimile drafts must use this addendum. Worldpay allows a maximum of 15 Facsimile Draft Description Addendum records.

TABLE 1-50 Facsimile Draft Description Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	FD - Facsimile Draft Description Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of transaction within the batch.
Addendum Seq. Number	2	Numeric	Incremented by one for each addendum associated with a transaction.
Merchandise Description	24	Character	Contains a description of the merchandise purchased.
Merchandise Amount	7	Numeric	Contains the amount of the item purchased in DDDDDCC format.
Merchandise Amount Sign	1	Character	Contains the sign of amount of item purchased (+/-).
Merchandise Description	24	Character	Contains a description of the merchandise purchased.
Merchandise Amount	7	Numeric	Contains the amount of item purchased in DDDDDCC format.
Merchandise Amount Sign	1	Character	Contains the sign of amount of item purchased (+/-).
Filler	<u>4</u>	Character	Blank
		80 bytes total length	

NOTE: The last Merchandise Description and Merchandise Amount fields should contain the sales tax, if any. For Mail Order/ Telephone Order and E-Commerce merchants, put the cardholder name in the first Merchandise Description field. The format of the Merchandise Description field for the cardholder name is ZZJAMES JOHNSEN where ZZ is always the first two positions of the description followed by the cardholder name. Set the Merchandise Amount field to zeros.

1.3.44 Facsimile Draft Shipping Information Addendum

Merchants who supports facsimile drafts in situations where the merchandise ships to someone require this addendum.

TABLE 1-51 Facsimile Draft Shipping Information Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	FS - Facsimile Draft Shipping Information
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Seq. Number	2	Numeric	Incremented by one for each addendum associated with a transaction.
Ship-to-Name	28	Character	Contains the name to which the merchant shipped the merchandise.
Ship-to-Street	20	Character	Contains the street address to which the merchant shipped the merchandise.
Ship-to-City	13	Character	Contains the city to which the merchant shipped the merchandise.
Ship-to-State	2	Character	Contains the state to which the merchant shipped the merchandise was shipped
Ship-to-Zip	<u>5</u>	Character	Contains the zip code to which the merchant shipped the merchandise.
	80 bytes total length		

1.3.45 IIAS Auto-Substantiation Addendum Record

Use the IIAS addendum for IIAS amount types and amounts. This addendum must include a minimum of one amount and it supports the following amount types and amounts:

- 4S - Healthcare
- 4T - Transit
- 4U - Prescription
- 4V - Vision
- 4W - Clinic
- 4X - Dental

If the first amount type contains blanks, Worldpay assumes you want to use the transaction amount from the D0 detail record for the IIAS amounts also. Worldpay sets both the 4S Healthcare amount and 4U Prescription amount to the transaction amount value.

TABLE 1-52 IIAS Auto-Substantiation Addendum Record Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	IA - IIAS Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each addendum associated with a transaction.
Partial Auth Indicator	1	Character	Use Y if you support partial authorizations; otherwise, leave this field blank. This field is also found in the D0 record. You can use either field to indicate partial approval support.
Amount Type 1	2	Character	This is a required field.
Amount 1	8	Numeric	Use DDDDDDDCC unsigned format. This is a required field.
Amount Type 2	2	Character	Use blanks if the amount is not present. This is an optional field.
Amount 2	8	Numeric	If Amount Type 2 is present, you must supply a value in DDDDDDDCC unsigned format. If not present, fill it with blanks.
Amount Type 3	2	Character	This is an optional field. If not present, fill it with blanks.
Amount 3	8	Numeric	If Amount Type 3 is present, you must supply a value in DDDDDDDCC unsigned format. If not present, fill it with blanks.
Amount Type 4	2	Character	This is an optional field. If not present, fill it with blanks.
Amount 4	8	Numeric	If Amount Type 4 is present, you must supply a value in DDDDDDDCC unsigned format. If not present, fill it with blanks.
Amount Type 5	2	Character	This is an optional field. If not present, fill it with blanks.
Amount 5	8	Numeric	If Amount Type 5 is present, you must supply a value in DDDDDDDCC unsigned format. If not present, fill it with blanks.
Amount Type 6	2	Character	This is an optional field. If not present, fill it with blanks.

TABLE 1-52 IIAS Auto-Substantiation Addendum Record Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Amount 6	8	Numeric	If Amount Type 6 is present, you must supply a value in DDDDDDC unsigned format. If not present, fill it with blanks.
Filler	<u>7</u>	Character	Blanks
		80 bytes total length	

1.3.46 Token Data Addendum Record

For token initiated transactions and card-from-token requests, this field includes the token and token ID, and the cardholder account number in the primary detail record is set to blanks. For Omni-Token merchants, the token ID is unused and you can leave it blank.

TABLE 1-53 Token Data Addendum Record Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	TK - Token Data Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each record addendum associated with a transaction.
Tokenized CH Account Number	22	Character	Left justify and fill this field with trailing blanks.
Token ID	6	Character	Contains the Token ID; set this to blanks for Omni-Token merchants.
Token Date/Time	14	Numeric	Contains the date/time in YYYYMMDDHHMMSS format. You can include this field in place of the token-ID for Card-from-token transactions. Omni-Token transactions do not use it.
Filler	<u>26</u>	Character	Blanks
		80 bytes total length	

1.3.47 EMV Addendum 1

Merchants sending in EMV data for EMD settlement processing may submit these addendum records (V1, V2, V3, and V4). Merchants cannot use these records for authorization transactions and should only

send them in conjunction with D0 records with a deposit method of P (settlement only record). Worldpay requires the addenda with all the fields and the merchant must include all four EMV addenda together.

TABLE 1-54 EMV Addendum 1 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	V1 - Addendum #1
Reserved	2	Character	Zero fill
Batch Transaction Number	6	Numeric	Contains the sequential number of transactions within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each record addendum associated with a transaction.
Application Cryptogram	16	Character	Tag 9F26 - Allowable characters are 0-9 and A-F.
Unpredictable Number	8	Character	Tag 9F37 - Allowable characters are 0-9 and A-F.
Application Transaction Counter	4	Character	Tag 9F36 - Allowable characters are 0-9 and A-F.
Terminal Verification Results	10	Numeric	Tag 95
Card Sequence Number	2	Numeric	Tag 5F34
Transaction Date	6	Numeric	Tag 9A Use YYMMDD format.
Transaction Type	2	Numeric	Tag 9C
Amount, Authorized	12	Numeric	Tag 9F02
Transaction Currency Code	3	Numeric	Tag 5F2A
Reserved	2	Character	Blanks
Offline Indicator	1	Character	Y - Offline transaction N - Online transaction Blank - Online transaction
Filler	2	Character	Blanks
		80 bytes total length	

1.3.48 EMV Addendum 2

Merchants sending in EMV data for EMD settlement processing may submit these addendum records (V1, V2, V3, and V4). Merchants cannot use these records for authorization transactions and should only send them in conjunction with D0 records with a deposit method of P (settlement only record). The addenda require all fields and the merchant must present all four EMV addenda together.

TABLE 1-55 EMV Addendum 2 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	V2 - Addendum #2
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each record addendum associated with a transaction.
Cryptogram Information Data	2	Character	Tag 9F27 - Allowable characters are 0-9 and A-F.
Issuer Application Data Length	2	Numeric	Contains the length of the Issuer Application Data.
Issuer Application Data	64	Character	Tag 9F10 - Allowable characters are 0-9 and A-F.
		80 bytes total length	

1.3.49 EMV Addendum 3

Merchants sending in EMV data for EMD settlement processing may submit these addendum records (V1, V2, V3, and V4). These records are not allowed for authorization transactions and merchants should only send them in conjunction with D0 records with a deposit method of P (settlement only record). All the fields with the addenda are required and you must present all four EMV addenda together.

TABLE 1-56 EMV Addendum 3 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	V3 - Addendum #3
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each record addendum associated with a transaction.

TABLE 1-56 EMV Addendum 3 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Application Interchange Profile	4	Character	Tag 82 - Allowable characters are 0-9 and A-F
Terminal Capabilities	6	Character	Tag 9F33 - Allowable characters are 0-9 and A-F
Form Factor Indicator	8	Character	Tag 9F6E - Allowable characters are 0-9 and A-F
Issuer Authentication Data	32	Character	Tag 91
Terminal Country Code	3	Numeric	Tag 9F1A
Amount, Other	12	Numeric	Tag 9F03
Filler	<u>3</u>	Character	Blanks
		80 bytes total length	

1.3.50 EMV Addendum 4

Merchants sending in EMV data for EMD settlement processing may submit these addendum records (V1, V2, V3, and V4). Worldpay does not allow these records for authorization transactions and merchants should only send them in conjunction with D0 records with a deposit method of P (settlement only record). All the fields with the addenda are required and you must present all four EMV addenda together.

TABLE 1-57 EMV Addendum 4 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	V4 - Addendum #4
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each record addendum associated with a transaction.
Issuer Script Results	50	Character	Tag 9F5B
Filler	18	Character	Blanks
		80 bytes total length	

1.3.51 Payee Information Addendum 1

If the merchant uses this record, then they must also use the [Payee Information Addendum 1](#).

TABLE 1-58 Payee Information Addendum 1 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	B1 - Payee Information Addendum #1
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each transaction addendum.
Payee Name	25	Character	Contains the left- justified Payee Name. Worldpay requires this field for PINless Billpay conversion and will reject the authorization if you leave it blank.
Payee Phone Number	25	Character	Contains the left-justified Payee Phone Number. Worldpay requires this field for PINless Billpay conversion and will reject the authorization if you leave it blank.
Payee Reference Number	16	Character	Contains the left-justified Transaction Reference Number.
Filler	2	Character	Blanks
		80 bytes total length	

1.3.52 Payee Information Addendum 2

If you use this record, you must also use the [Payee Information Addendum 1](#).

NOTE: Worldpay requires this field for PINless Billpay conversion and rejects the addendum if left blank.

TABLE 1-59 Payee Information Addendum 2 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	B2 - Payee Information Addendum #2

TABLE 1-59 Payee Information Addendum 2 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each transaction in the addendum.
Payee Account Number	25	Character	Contains the left-justified Payee Account Number. This field is required for PINless Billpay conversion and Worldpay rejects the authorization if you leave it blank.
Payee Account Type	2	Character	Contains the left-justified Payee Account Type.
Payee Transaction Type	2	Character	Contains the left-justified Payee Transaction Type.
Payee City	24	Character	Contains the left-justified Payee City.
Payee State/Province	2	Character	Contains the left-justified Payee State/Province.
Payee Country	3	Character	Contains the left-justified Payee Country.
Payee Zip	10	Character	Contains the left-justified Payee Zip Code.
		80 bytes total length	

1.3.53 Payee Information Addendum 3

If you use this record, you must also use the [Payee Information Addendum 2](#).

TABLE 1-60 Payee Information Addendum 3 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	B3 - Payee Information Addendum #3
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each transaction addendum.
Payee Address	35	Character	Contains the left-justified Payee Account Number.

TABLE 1-60 Payee Information Addendum 3 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Payee Address (Line 2)	25	Character	Contains the left-justified Payee Account Type.
Filler	<u>8</u>	Character	Blanks
80 bytes total length			

1.3.54 Detail LoyaltyAddendum

TABLE 1-61 Payee Information Addendum 3 Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	DL - Detail Loyalty Addendum
Reserved	2	Character	Zero fill
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch.
Addendum Sequence Number	2	Numeric	Incremented by one for each transaction addendum
Session ID	15	Character	The ID associated with the loyalty transaction
Reward Amount	7	Numeric	Contains the amount of the award in DDDDDCC format.
Filler	46	Character	Blanks
80 bytes total length			

1.4 Trailer Records

- [Batch Trailer Record](#)
- [File Trailer Record](#)

1.4.1 Batch Trailer Record

For credit card, Transaction Types R and S subtract from the Total Amount. See [Appendix E, "Gift Card Totals Calculations"](#) for an explanation of Gift Card totals calculations.

TABLE 1-62 Batch Trailer Record Field Attributes

Field Description	Length In Bytes	Data Type	Comments
Record Type	2	Character	BT - Batch Trailer
Reserved	2	Character	Zero fill.
Relative Batch #	6	Numeric	Contains the sequential number of batch within file. The first number is 000001, which Worldpay increments by one for each batch on file. This number must match the number in the preceding Batch Header.
Total Record Count	6	Numeric	Contains the number of records included in this batch including addenda and excluding batch header(s) and trailer. If there are more than 999,999 records in the batch, use modulo 1,000,000 arithmetic.
Total Transaction Count	5	Numeric	Contains the number of detail transactions included in this batch. If there are more than 99,999 transactions in the batch, use modulo 100,000 arithmetic.
Total Amount	10	Numeric	Contains the total amount of sales less returns contained in the batch in DDDDDDDCC signed numeric display. For Gift Cards, see Gift Card Totals Calculations for which transaction types add/subtract from the total amount.
Merchant Assessment Fee	8	Numeric	Contains the amount of fees that Worldpay charges the merchant in DDDDDCC signed numeric display. Only use this field after consulting with Worldpay; otherwise, leave this field blank.
Filler	<u>41</u>	Character	Blanks

TABLE 1-62 Batch Trailer Record Field Attributes

Field Description	Length In Bytes	Data Type	Comments
	80 bytes total length		

1.4.2 File Trailer Record

For credit card, Transaction Types R and S subtract from the Total Amount.

See [Appendix E, "Gift Card Totals Calculations"](#) for an explanation of Gift Card totals calculations.

TABLE 1-63 File Trailer Record Field Attributes

Field Description	Length In Bytes	Data Type	Comments
Record Type	2	Character	FT - File Trailer
Reserved	2	Character	Zero fill.
File Type	4	Character	BMAD
Relative File #	6	Numeric	This value must agree with the value in the Primary File Header .
Batch Count	6	Numeric	Contains the number of batches on file. The value must equal relative the batch number of last batch on file.
Total Transaction Count	5	Numeric	Contains the number of detail transactions included in this file. If there are more than 99,999 transactions in the file, use modulo 100,000 arithmetic.
Total Amount	11	Numeric	Contains the total amount of sales less the returns contained in the file in DDDDDDDCC signed numeric display. For Gift Cards, see Appendix E, "Gift Card Totals Calculations" for which transaction types add/subtract from the total amount.
Filler	44	Character	Blanks
	80 bytes total length		

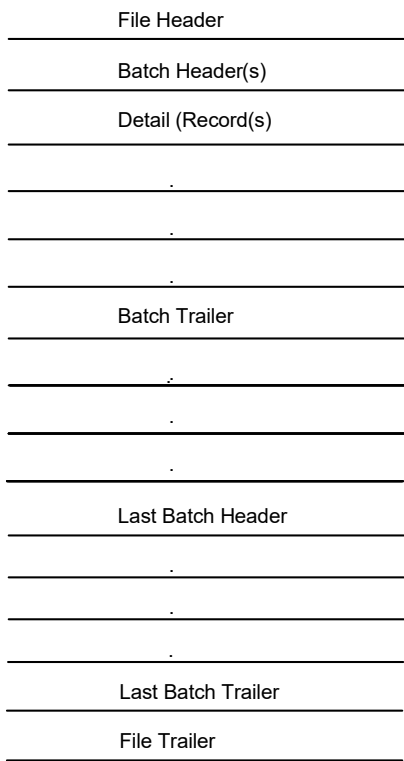
Response File Record Formats

This chapter provides information about the response file record formats. Worldpay provides one batch and transaction response for each batch presented in the merchant request file.

The batch file is in a standard fixed block format with each record being 80 bytes (IBM File DCB - RECFM = FB, LRECL = 80). If you require more than 80 bytes within a record, use additional record types.

Figure 2-1 illustrates the basic record layout of a file.

FIGURE 2-1 Basic Response Record Layout



The response record formats discussed in this chapter are:

- [Header Files](#)

- [Response Records](#)
- [Addenda](#)
- [Trailer Records](#)

2.1 Header Files

A header record is a standard record of information regarding the transfer of a group of data (a batch). The header record contains information that is crucial for the successful processing of the batch.

The record formats discussed in this section are:

- [File Header Record](#)
- [Batch Header Record](#)

2.1.1 File Header Record

TABLE 2-1 Field Header Record Field Attributes

Field Description	Length In Bytes	Data Type	Comments
Record Type	2	Character	FH - File Header
Reserved	2	Character	Zero fill.
File Type	4	Character	BMAR
Reserved	4	Character	Blanks
Reply File Version Number	4	Character	This is echoed from the request file.
Relative File Number	6	Numeric	This is echoed from the request file.
Process Date	6	Character	Contains the merchant business day date in YYMMDD format.
Originating ID	8	Character	04200031
Destination ID	8	Character	Contains a Worldpay-assigned identification number.
Creation Date	6	Character	Contains the creation date in YYMMDD format.
Creation Time	6	Character	Contains the creation time in HHMMSS format.
User Defined Description	20	Character	Contains the File Description included in the Merchant Request File (BMAD File).
Filler	4	Character	Blanks
		80 bytes total length	

2.1.2 Batch Header Record

TABLE 2-2 Batch Header Record Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	BH - Batch Header
Reserved	2	Character	Zero fill this field.
Relative Batch Number	6	Numeric	Contains the sequential number of batch within file. The first number is 000001, which increments by one for each batch on file.
Process Date	6	Character	Contains the merchant business day date in YYMMDD format. Worldpay echoes it from the value(s) in merchant request file.
Store Merchant Number	16	Character	Contains the merchant number assigned to store by Worldpay. Left justify this field and use trailing blanks.
Merchant Name	25	Character	Contains the store name and, if the store has more than one location in the city, its location within the city.
Merchant City	13	Character	
Merchant State	2	Character	
Merchant Country	3	Numeric	Worldpay echoes this from the merchant request file.
Filler	<u>5</u>	Character	Blanks
	80 bytes total length		

2.2 Response Records

This section describes the following:

- [Authorization Response Record - Version 2.1 or Earlier](#)
- [Authorization Response Record - Version 2.2](#)
- [Gift Card Authorization Response Record](#)

2.2.1 Authorization Response Record - Version 2.1 or Earlier

TABLE 2-3 Authorization Response Record - Version 2.1 or Earlier Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	R0 - Authorization Response Record
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the Transaction within batch. The first number is 000001, which Worldpay increments by one for each transaction in the batch.
Addendum Sequence Number	2	Numeric	00 - Worldpay increments this by one for each transaction addendum.
Transaction Type	1	Character	• P - Purchase • R - Refund • A - Address Verification Request • C - Cardholder Funds Transfer for Credit • D - Cardholder Funds Transfer for Debit
Draft Locator Number	11	Character	Contains the Merchant Transaction ID. Use this to research a transaction if a card-issuing bank requests it. This identifies the transaction in requests for copy and chargebacks.
Cardholder Account Number	20	Numeric	Left justify and blank fill this field. If the card results flag is T, this field contains the truncated account number. If the card results flag is L, this field contains the last four digits of the account number.
Transaction Date	6	Character	Contains the date the transaction occurred in YYMMDD format.
Transaction Amount	8	Character	Contains the transaction amount in DDDDDDC unsigned format.

TABLE 2-3 Authorization Response Record - Version 2.1 or Earlier Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Response Code	2	Character	• AA - Approval • AB - Partially Approved • AP - Amex Express Rewards Approval • AV - Approval, VIP • ND - Decline • NE - Decline, Expired Card • NP - PIN Invalid or Retries Exceeded • NS - Decline, Special • F1 - Decline, pick up card (fraud) • NC - Decline, pick up card • NR - Referral, call bank • NX - Acknowledgment of refund request • RD - Decline, do not attempt retry • RE - Retry, no response received • RJ - Edit reject, not processed • R1 - Retry after 1 hour • R2 - Retry after 24 hours • R3 - Retry after 2 days • R4 - Retry after 4 days • R5 - Retry after 6 days • R6 - Retry after 8 days • R7 - Retry after 10 days
Authorization Number	6	Character	If approved, this field contains the approval code from the issuer. If the response code is R, this field contains the Batch Auth reject code from Appendix A, "Batch Authorization Reject Codes", preceded by a blank. For other denials, this field is blank or contains, if available, the network response code followed by four blanks.

TABLE 2-3 Authorization Response Record - Version 2.1 or Earlier Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Address Verification Resp.	1	Character	Contains one of the following depending on the results of the address verification function: ' ' - Not Requested - A - ADDRESS matches, zip does not match - E - ERROR, trans. ineligible or edit error - G - GLOBAL non-participant - N - NO, address and zip do not match - R - RETRY, system unavailable or timed out - S - SERVICE not supported by issuing bank - U - UNAVAILABLE, address info. not avail - W - WHOLE ZIP (9 digit zip) matches, address doesn't - X - EXACT, address and 9 digit zip match - Y - YES, address and 5 digit zip match - Z - 5 digit zip matches, address doesn't The following are for International AVS: - B - Street addresses match, postal codes not verified - C - Street addresses and postal codes not verified - D - Street addresses and postal codes match - I - Address information not verified - M - Street addresses and postal codes match - P - Postal codes match, street addresses not verified
Authorization Date	6	Numeric	Contains the date on which the merchant obtained the authorization.
Deposit Method	1	Character	- A - Authorization only, the merchant originates subsequent presentment for settlement - C - Deposit transaction if authorization is approved by issuer - F - Force capture deposit transaction even if the merchant cannot obtain authorization approval - P - Presentment of previously authorized transaction for deposit only - R - Partial Reversal Presentment without settlement

TABLE 2-3 Authorization Response Record - Version 2.1 or Earlier Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Card Expiration Date	4	Numeric	YYMM
CVV2 Response Code	1	Character	This field also applies to CVC2 and Amex CID. Valid values are: • M - CVV2 Match • N - CVV2 Not Match • P - Not Processed • Blank - Not Processed • S - CVV2 should be on card, but merchant indicated CVV2 not present • U - Issuer not certified
Recurring Payment Advice Code	1	Character	• Blank - Default • 1 - Obtain new account information from user. • 2 - Try again after 72 hours. • 3 - Do not try again. The account is blocked or closed.
		80 bytes total length	

2.2.2 Authorization Response Record - Version 2.2

TABLE 2-4 Authorization Response Record - Version 2.2

Field Description	Length in Bytes	Type	Comments
Record Type	2	Character	R0 - Authorization Response Record
Reserved	1	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the Transaction within batch. The first number is 000001, which Worldpay increments by one for each transaction in the batch.
Addendum Sequence Number	2	Numeric	Contains the addendum s00 - Incremented by one for each transaction addendum

TABLE 2-4 Authorization Response Record - Version 2.2

Field Description	Length in Bytes	Type	Comments
Transaction Type	1	Character	• P - Purchase • R - Refund • A - Address Verification Request • C - Cardholder Funds Transfer - Credit • D - Cardholder Funds Transfer - Debit
Draft Locator Number	11	Character	Contains the Merchant Transaction ID, which identifies the transaction in Requests for Copy and Chargebacks. Use this to research a transaction if requested by card issuing bank.
Cardholder Account Number	20	Numeric	Left justify and blank fill. If the card results flag is T, this contains the truncated account number. If the card results flag is L, this contains the last four digits of the account number.
Transaction Date	6	Character	Contains the date the transaction occurred in YYMMDD format.
Transaction Amount	9	Character	Contains the transaction amount in DDDDDDDCC unsigned format.

TABLE 2-4 Authorization Response Record - Version 2.2

Field Description	Length in Bytes	Type	Comments
Response Code	2	Character	• AA - Approval • AB - Partially Approved • AP - Amex Express Rewards Approval • AV - Approval, VIP • ND - Decline • NE - Decline, Expired Card • NP - PIN Invalid or Retries Exceeded • NS - Decline, Special • F1 - Decline, pick up card (fraud) • NC - Decline, pick up card • NR - Referral, call bank • NX - Acknowledgment of refund request • RD - Decline, do not attempt retry • RE - Retry, no response received • RJ - Edit reject, not processed • R1 - Retry after 1 hour • R2 - Retry after 24 hours • R3 - Retry after 2 days • R4 - Retry after 4 days • R5 - Retry after 6 days • R6 - Retry after 8 days • R7 - Retry after 10 days
Authorization Number	6	Character	If approved, this field contains the approval code from the issuer. If the response code is RJ, this field contains a reject code from Appendix A, "Batch Authorization Reject Codes" preceded by a blank. For other denials, this field is either blank or contains the network response code, if available, followed by four blanks.

TABLE 2-4 Authorization Response Record - Version 2.2

Field Description	Length in Bytes	Type	Comments
Address Verification Resp.	1	Character	This contains the results of the address verification function, which are as follows: • ' ' - Not Requested • A - ADDRESS matches, zip does not match • E - ERROR, trans. ineligible or edit error • G - GLOBAL non-participant • N - NO, address and zip do not match • R - RETRY, system unavailable or timed out • S - SERVICE not supported by issuing bank • U - UNAVAILABLE, address info. not avail • W - WHOLE ZIP (9 digit zip) matches, address doesn't • X - EXACT, address and 9 digit zip match • Y - YES, address and 5 digit zip match • Z - 5 digit zip matches, address doesn't The following are for International AVS: • B - Street addresses match, postal codes not verified • C - Street addresses and postal codes not verified • D - Street addresses and postal codes match • I - Address information not verified • M - Street addresses and postal codes match • P - Postal codes match, street addresses not verified
Authorization Date	6	Numeric	Contains the date on which the merchant obtained authorization.

TABLE 2-4 Authorization Response Record - Version 2.2

Field Description	Length in Bytes	Type	Comments
Deposit Method	1	Character	Contains the deposit method. Valid values are as follows: - A - Authorization only, merchant originates subsequent presentment for settlement - C - Deposit transaction if issuer approves the authorization - F - Force capture deposit transaction even if the merchant cannot receive authorization approval - P - Presentment of previously authorized transaction for deposit only - R - Partial Reversal Presentment without settlement
Card Expiration Date	4	Numeric	The card expiration date in YYMM format.
CVV2 Response Code	1	Character	This field also applies to CVC2 and Amex CID. Valid values are: - M - CVV2 Match - N - CVV2 Not Match - P - Not Processed - Blank - Not Processed - S - The card should contain a CVV2, but the merchant indicated CVV2 is not present - U - Issuer not certified
Recurring Payment Advice Code	1	Character	- Blank - Default 1 - Obtain new account information from the user. 2 - Try again after 72 hours. 3 - Do not try again. The account is blocked or closed.
		80 bytes total length	

2.2.3 Gift Card Authorization Response Record

TABLE 2-5 Gift Card Authorization Response Record Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	RG - Gift Card Authorization Response Record

TABLE 2-5 Gift Card Authorization Response Record Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch. The first number is 000001, which Worldpay increments by one for each transaction in the batch.
Addendum Sequence Number	2	Numeric	00 - Incremented by one for each transaction addendum
Transaction Type	1	Character	• A - Activate • B - Balance Inquiry • C - Close • P - Purchase • F - Refund • L - Load • U - Unload • T - Gift Card Preauthorization Expiration Initiation
Reversal Type	1	Character	• A - Authorization (No reversal) • R - Reversal • F - Forced Reversal
Cardholder Account Number	20	Numeric	Left justify and blank fill. If the card results flag is T, this contains the truncated account number. If the card results flag is L, this contains the last four digits of the account number.
Transaction Amount	8	Character	Contains the transaction amount in DDDDDDDC unsigned format.

TABLE 2-5 Gift Card Authorization Response Record Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Response Code	2	Character	• AA - Approval • AB - Partial approval • AV - Approval VIP • ND - Decline • NE - Decline due to expired card • NP - PIN Invalid or Retries Exceeded • NS - Decline, Special • F1 - Decline, pick up card (fraud) • NC - Decline, pick up card • NX - Acknowledgment of refund request • RE - Retry, no response received • RJ - Edit reject, not processed
Authorization Number	6	Character	If approved, this field contains the approval code from the issuer. If rejected, it contains the reject code from Appendix A, "Batch Authorization Reject Codes" preceded by a blank. For other denials, this field is either blank or contains the network response code, if available, followed by four blanks.
Transaction Date	6	Character	Contains the date the transaction occurred in the YYMMDD format.
Transaction Time	6	Character	Contains the time the transaction occurred in HHMMSS format.
Available Balance	8	Character	Contains the available balance in DDDDDDDCC unsigned format.
Authorized Amount	8	Character	Contains the authorized amount in DDDDDDDCC unsigned format.
Filler	<u>2</u>	Character	Blanks
		80 bytes total length	

2.3 Addenda

This section describes the following:

- [Merchant Reference Information Addendum](#)
- [Visa Authorization Response Addendum](#)
- [MasterCard Authorization Response Addendum](#)
- [American Express Authorization Response Addendum](#)
- [Discover Data and Network Reference ID - Response Record Addendum](#)
- [Bill Me Later® Authorization Response Addendum](#)
- [Additional Response Addendum](#)
- [Gift Card Currency Conversion Response Addendum](#)
- [Token Data Response Addendum](#)
- [Payee Response Addendum](#)

2.3.1 Merchant Reference Information Addendum

TABLE 2-6 Merchant Reference Information Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	RR - Reference Information Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the Transaction within batch. The first is 000001, which Worldpay increments by one for each transaction in the batch.
Addendum Sequence Number	2	Numeric	Worldpay increments this by one for each transaction addendum.
Transaction Reference Data	68	Character	Contains transaction reference information sent by the merchant in the authorization request file (BMAD File). If provided in the transaction request file, Worldpay sends this back to the merchant in the response file. If not present in the request file, Worldpay omits this entire addendum from the response file.
	80 Bytes Total Length		

2.3.2 Visa Authorization Response Addendum

The response file may not contain this addendum if Worldpay does not receive CPS compliance information from Visa.

TABLE 2-7 Visa Authorization Response Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	RV - Visa Authorization Response Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch. The first number is 000001, which Worldpay increments by one for each transaction in batch.
Addendum Sequence Number	2	Numeric	Worldpay increments this by one for each transaction addendum.
Addendum Format Number	1	Numeric	1
Retrieval Reference Number	12	Character	Contains the Authorization Retrieval Number assigned by Visa. The merchant must retain and return it in any partial or full authorization reversals.
Authorization Characteristics Indicator	1	Character	Contains the Visa Authorization Characteristics Indicator (ACI) assigned by Visa. If the merchant did not obtain CPS compliance, this is blank.
Transaction ID	15	Character	Contains the transaction identifier assigned by Visa. If the merchant did not obtain CPS compliance, this is blank.
Validation Code	4	Character	Contains the authorization validation code assigned by Visa. If the merchant did not obtain CPS compliance, this is blank.
Visa Response Code	2	Character	Contains the Visa authorization response code. If the merchant did not obtain CPS compliance, this is blank.
Currency Code	3	Numeric	Contains the currency code presented in original authorization.
Authorized Amount	12	Numeric	Contains the authorized amount presented in original authorization request in DDDDDDDDDCC unsigned format.
Merchant Category Code	4	Character	Contains the merchant category code presented by the merchant in the original authorization.

TABLE 2-7 Visa Authorization Response Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Total Authorized Amount	12	Numeric	Contains the net amount of the original authorization and, if any, a subsequent partial reversal. For qualified CPS Mail/Phone orders, this net amount must equal the amount of the settled transaction.
Card Level Results Code	2	Character	Contains the Visa Card Level Results Code.
80 bytes total length			

2.3.3 MasterCard Authorization Response Addendum

The response file may not contain this addendum if BankNet compliance information is not received from MasterCard.

TABLE 2-8 MasterCard Authorization Response Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	RM - MasterCard Authorization Response Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch. The first is 000001, which Worldpay increments by one for each transaction in batch.
Addendum Sequence Number	2	Numeric	Worldpay increments this by one for each transaction addendum.
Addendum Format Number	1	Numeric	1
BankNet Reference Number	9	Character	Contains a nine digit alpha-numeric reference number assigned by MasterCard.
BankNet Settlement Date	4	Numeric	Contains the date assigned by MasterCard in MMDD format.
Retrieval Reference Number	12	Numeric	Contains the Authorization Retrieval Reference Number assigned to the transaction. Merchants must retain and return it in any partial or full reversals.
Transaction Integrity Class	2	Character	Contains the Transaction Integrity Class from the network (if requested and available)

TABLE 2-8 MasterCard Authorization Response Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Filler	40	Character	Contains blanks.
		80 bytes total length	

2.3.4 American Express Authorization Response Addendum

The response file contains this addendum for version V2.1, provided Amex returns a transaction ID. These are native AMEX values described in the American Express Retail addenda.

TABLE 2-9 American Express Authorization Response Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	RA - American Express Authorization Response Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within batch. The first is 000001, which Worldpay increments by one for each transaction in the batch.
Addendum Sequence Number	2	Numeric	Worldpay increments this by one for each transaction addendum.
Format Record Type	1	Numeric	1
Transaction Identifier	15	Numeric	Contains the Transaction ID returned by Amex.
Card Data Input Capability	1	Character	
Cardholder Authentication	1	Character	
Card Capture Capability	1	Character	
Operating Environment	1	Character	
Cardholder Present	1	Character	
Card Present	1	Character	
Card Data Input Mode	1	Character	
Cardmember Authentication	1	Character	
Cardmember Authentication Entity	1	Character	

TABLE 2-9 American Express Authorization Response Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Card Data Output Capability	1	Character	
Terminal Output Capability	1	Character	
PIN Capture Capability	1	Character	
Filler	<u>40</u>	Character	Contains blanks.
80 bytes total length			

2.3.5 Discover Data and Network Reference ID - Response Record Addendum

This addendum contains native Discover values. The response file includes it if the merchant submits the FQ file header.

TABLE 2-10 Discover Data and Network Reference ID - Response Record Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	RD - Discover Response Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within the batch. The first number is 000001, which Worldpay increments by one for each transaction in the batch.
Addendum Sequence Number	2	Numeric	Worldpay increments this by one for each transaction addendum.
Discover Processing Code	6	Character	
Discover Audit Trace	6	Character	
Discover POS Entry Mode + PIN	3	Character	
Capability			
Discover Track I/II Status	2	Character	
Discover POS Cond. Code	13	Character	
Discover Response	2	Character	.
Discover Network Reference ID	15	Character	

TABLE 2-10 Discover Data and Network Reference ID - Response Record Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Discover Auth Date/Time	10		Use the YYYYhhmmss format.
Filler	11	Character	Contains blanks.
	80 bytes total length		

2.3.6 Bill Me Later® Authorization Response Addendum

TABLE 2-11 Bill Me Later® Authorization Response Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	RL - Bill Me Later Auth Response Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within batch. The first is 000001, which Worldpay increments by one for each transaction in the batch.
Addendum Sequence Number	2	Numeric	Worldpay increments this by one for each transaction addendum.
Authentication Control Code	6	Character	Contains the BML tracking number for authentication.
Credit Line	12	Numeric	
Promotion Offer	8	Character	
Response Code Description	42	Character	
	80 Bytes Total Length		

2.3.7 Additional Response Addendum

TABLE 2-12 Additional Response Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	R - Additional Response Addendum
Reserved	2	Character	Zero fill.

TABLE 2-12 Additional Response Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within batch. The first number is 000001, which is incremented by one for each transaction in the batch.
Addendum Sequence Number	2	Numeric	Worldpay increments this by one for each transaction addendum.
Market Specific Data Indicator	1	Character	Visa/MasterCard returns this value.
Partial Authorization Authorized	8	Character	Use DDDDDDDC unsigned format.
PINless Conversion Indicator	1	Character	- Y - Converted to PINless - N or " - Not converted to PINless transaction
PINless Converted Network	4	Character	Contains the network acronym to where Worldpay routes the PINless transaction.
Network Account Type	2	Character	The account type returned by the network.
Filler	<u>52</u>	Character	Contains blanks.
		80 bytes total length	

2.3.8 Gift Card Currency Conversion Response Addendum

TABLE 2-13 Gift Card Currency Conversion Response Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	RC - Gift Card Currency Response Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within batch. The first number is 000001, which Worldpay increments by one for each transaction in the batch.
Addendum Sequence Number	2	Numeric	Worldpay increments this by one for each transaction addendum.
Converted Amount	8	Character	Contains the amount converted to database currency from the requested amount.

TABLE 2-13 Gift Card Currency Conversion Response Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Converted Currency Code	3	Character	Contains the currency code of the converted amount.
Conversion Rate	8	Character	The left most digit represents the number of decimal positions that the decimal should move from the right of the conversion rate. Positions 2 through 8 are the conversion rate that was used. For example, 61012345 is a conversion rate of 1.012345.
Available Amount	8	Character	Contains the available amount in database currency.
Converted Authorized Amount	8	Character	Contains the authorized amount in database currency.
Filler	<u>33</u>	Character	Contains blanks.
		80 bytes total length	

NOTE: The response file only contains the RC addendum when the currency conversion is processed and requested in the [Gift Card Primary Transaction Detail Record](#) with a processing flag of C.

2.3.9 Token Data Response Addendum

If tokenization is not possible, Worldpay sets the Token ID field to zzzzzz and leaves the Tokenized CH Account # field blank.

For Omni-Token customers, Worldpay only uses the Token ID field when tokenization is not possible. For successfully tokenized transactions, Worldpay leaves the Token ID field blank.

TABLE 2-14 Token Data Response Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	RT - Token Data Response Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within batch. The first number is 000001, which Worldpay increments by one for each transaction in the batch.
Addendum Sequence Number	2	Numeric	Worldpay increments this by one for each transaction addendum.

TABLE 2-14 Token Data Response Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Tokenized CH Account #	19	Character	Left justify and use trailing blanks.
Token ID	6	Character	Left justify and use trailing blanks.
Filler	43	Character	Contains blanks.
80 bytes total length			

2.3.10 Payee Response Addendum

TABLE 2-15 Payee Response Addendum Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	RB - Payee Data Response Addendum
Reserved	2	Character	Zero fill.
Batch Transaction Number	6	Numeric	Contains the sequential number of the transaction within batch. The first number is 000001, which Worldpay increments by one for each transaction in the batch.
Addendum Sequence Number	2	Numeric	Worldpay increments this by one for each transaction addendum.
Payee Reference Number	16	Character	Contains the left justified Transaction Reference Number.
Filler	<u>52</u>	Character	Contains blanks.
80 bytes total length			

2.4 Trailer Records

- [Batch Trailer Record](#)
- [File Trailer Record](#)

2.4.1 Batch Trailer Record

TABLE 2-16 Batch Trailer Record Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	BT - Batch Trailer
Reserved	2	Character	Zero fill.
Relative Batch #	6	Numeric	Contains the sequential number of the batch within the file. The first number is 000001, which Worldpay increments by one for each batch on file. This must match the number in the preceding Batch Header.
Total Transactions	5	Numeric	Contains the number of the detail transactions included in this batch.
Total Amount	10	Numeric	Contains the total amount of sales less returns contained in the batch in a DDDDDDDDDCC signed numeric display. For Gift Cards, see Appendix E, "Gift Card Totals Calculations" for which transaction types add/subtract from the total amount.
Number Authorized	5	Numeric	Contains the number of transactions in batch that Worldpay authorized.
Total Authorized	10	Numeric	Contains the total amount of sales less returns that were authorized by the card issuing institution. For Gift Cards, see Appendix E, "Gift Card Totals Calculations" for which transaction types add/subtract from the total amount.
Number Deposited	5	Numeric	Contains the number of transactions in the batch that Worldpay deposited to the merchant.
Total Deposited	10	Numeric	Contains the total amount of sales less returns that Worldpay deposited to the merchant.
Number Referrals	5	Numeric	Contains the number of transactions in the batch that were referred (call issuing institution).

TABLE 2-16 Batch Trailer Record Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Number Declined	5	Numeric	Contains the number of transactions in batch that were the card issuing bank declined.
Number No Response	5	Numeric	Contains the number of detail records for which no response was received.
Number Rejected	5	Numeric	Contains the number of rejected detail records.
Number for Reauth	5	Numeric	Contains the number of denied transactions that were forwarded to the reauth system.
		80 bytes total length	

See [Appendix E, "Gift Card Totals Calculations"](#) for an explanation of Gift Card totals calculations.

2.4.2 File Trailer Record

TABLE 2-17 File Trailer Record Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Record Type	2	Character	FT - File Trailer
Reserved	2	Character	Zero fill.
File Type	4	Character	BMAR
Relative File #	6	Numeric	Contains the value echoed from the request file.
Batch Count	6	Numeric	Contains the number of batches on file, which must equal the relative batch number of the last batch on file.
Transaction Count	6	Numeric	Contains the total number of transactions contained in the file.
Total Amount	11	Numeric	Contains the total amount of Sales less Returns contained in the file. For Gift Cards, see Appendix E, "Gift Card Totals Calculations" for the transaction types that add/subtract from the total amount.
Authorized Count	6	Numeric	Contains the number of authorized transactions contained in file.

TABLE 2-17 File Trailer Record Field Attributes

Field Description	Length in Bytes	Data Type	Comments
Authorized Amount	11	Numeric	Total amount of Sales less Returns in file that were authorized by the card issuing institution(s). For Gift Cards, see Appendix E, "Gift Card Totals Calculations" for which transaction types add/subtract from the total amount.
Amount Deposited	11	Numeric	Contains the amount of transactions captured for deposit to the merchant's account.
Filler	15	Character	Contains blanks.
		80 bytes total length	

See [Appendix E, "Gift Card Totals Calculations"](#) for an explanation of Gift Card totals calculations.

Batch Authorization Reject Codes

This appendix describes the input and output reject processing codes.

A.1 Input Processing

This section describes the following input processing reject codes:

- Initial Processing
- File Header Processing
- Batch Header Processing
- Batch Header Continued Processing
- American Express Batch Header Processing
- Detail Record Processing
- Discover Addendum Record Processing
- Gift Card Detail Record Processing
- Reference Information Processing
- Additional Request Information Processing
- Supplemental Authorization Processing
- American Express Detail Processing
- Amex Purchasing Card Processing
- Amex Retail Addendum Processing
- Amex Corporate Card Addendum Processing
- Cap One Private Label Processing
- Facsimile Draft Information Processing
- Facsimile Draft Description Processing
- Facsimile Draft Shipping Information Processing
- IIAS Auto-Substantiation Information Processing
- Transaction Description Processing
- MasterCard Basic IC Presentment Processing
- MasterCard Additional Info Processing
- MasterCard Purchasing Card Processing
- MasterCard Corporate Addendum Version 7 Processing
- Visa Basic CPS Processing
- Visa Additional Info Processing
- Visa CPS Direct Marketing Processing
- Visa Purchasing Card Processing
- Payee Information Addendum #1 Processing
- Payee Information Addendum #2 Processing
- Mag Stripe Data Processing
- EMV V1 Detail Record Processing
- EMV V2 Detail Record Processing

- [EMV V3 Detail Record Processing](#)
- [EMV V4 Detail Record Processing](#)
- [Token Data Processing](#)
- [Batch Trailer Processing](#)
- [File Trailer Processing](#)
- [Miscellaneous Error Codes](#)

A.1.1 Initial Processing

TABLE A-1 Initial Processing Reject Codes

Reject Code	Reason for Reject
MA 001 - Fatal	Invalid Record Type
MA 002 - Fatal	Records Encountered After File Trailer
EP 001 - Fatal	File Trailer Not Present
EP 002 - Fatal	Output Control File Did Not Open
EP 003 - Fatal	Input File Contains No Records
OF 001 - Fatal	Input Log File Did Not Open
OF 002 - Fatal	Output Log File Did Not Open
OF 006 - Fatal	CTLFILE Did Not Open
OF 007 - Fatal	No Detail records on OBS Input File
FC 001 - Fatal	Input Control File Did Not Open
FC 002 - Fatal	Previous File Has Not Finished Processing

A.1.2 File Header Processing

TABLE A-2 File Header Processing Reject Codes

Reject Code	Reason for Reject
FH 001 - Fatal	More Than One File Header Sent
FH 002 - Fatal	Incorrect File Type
FH 003 - Fatal	Incorrect Request File Version
FH 004 - Fatal	Incorrect Reply File Version
FH 005 - Fatal	Relative File Number Not Numeric
FH 006 - Fatal	File Header Process Date Invalid

TABLE A-2 File Header Processing Reject Codes

Reject Code	Reason for Reject
FH 007 - Fatal	File Header Originating ID Invalid
FH 008 - Fatal	File Header Destination ID Invalid
FH 009 - Fatal	File Header Creation Date Invalid
FH 010 - Fatal	File Header Creation Time Invalid
FH 011 - Fatal	Read of JFCB Failed

A.1.3 Batch Header Processing

TABLE A-3 Batch Header Processing Reject Codes

Reject Code	Reason for Reject
BH 001 - Fatal	File Header Not Present
BH 002 - Fatal	More Than One Batch Header Sent
BH 003 - Fatal	Batch Number Not Numeric
BH 004 - Fatal	Batch Number Not One Greater Than Batch Number of Previous Batch
BH 005 - Fatal	Batch Header Process Date Invalid
BH 006 - Fatal	Batch Header Process Date Illegal
BH 007 - Fatal	Merchant Number Not Numeric
BH 008 - Fatal	Merchant Category Code Not Numeric
BH 009 - Fatal	Merchant Country Code Invalid
BH 010 - Fatal	Reauth Table Code Invalid

A.1.4 Batch Header Continued Processing

TABLE A-4 Batch Header Continued Processing Reject Codes

Reject Code	Reason for Reject
BC 001 - Fatal	File Header Not Present
BC 002 - Fatal	Batch Header Not Present
BC 003 - Fatal	Batch Number Not Numeric
BC 004 - Fatal	Batch Number Incorrect

TABLE A-4 Batch Header Continued Processing Reject Codes

Reject Code	Reason for Reject
BC 005 - Fatal	Batch Header Out of Place
BC 006 - Fatal	Currency Code Invalid
BC 007 - Fatal	Token Request Indicator Invalid
BC 008 - Fatal	Card Results Flag Invalid

A.1.5 American Express Batch Header Processing

TABLE A-5 American Express Batch Header Processing Reject Codes

Reject Code	Reason for Reject
BX 001 - Fatal	File Header Not Present
BX 002 - Fatal	Batch Header Not Present
BX 003 - Fatal	Service Establishment Number Not Numeric

A.1.6 Detail Record Processing

TABLE A-6 Detail Record Processing Reject Codes

Reject Code	Reason for Reject
D0 001 - Fatal	File Header Not Present
D0 002 - Fatal	Batch Header Not Present
D0 003 - Fatal	Batch Transaction Number Not Numeric
D0 004 - Fatal	Batch Transaction Number Not One Greater Than Previous Transaction
D0 005	Addendum Sequence Number Not Equal To Zero
D0 006	Invalid Transaction Type
D0 007	Invalid Deposit Method
D0 008	Invalid Account Number
D0 009	Invalid Expiration Date
D0 010	Invalid Transaction Date
D0 011	Invalid Transaction Amount
D0 012	Invalid Authorization Date

TABLE A-6 Detail Record Processing Reject Codes

Reject Code	Reason for Reject
D0 013	Invalid POS Entry Mode
D0 014	Invalid Authorization Source
D0 015	Invalid Authorization Code
D0 016	Invalid POS Terminal Capability Code
D0 017	Invalid Cardholder ID Method
D0 018	Invalid Deposit Method for Online Reversal
D0 019	Invalid Auth Code for Online Reversal

A.1.7 Discover Addendum Record Processing

TABLE A-7 Discover Addendum Record Processing Reject Codes

Reject Code	Reason for Reject
DE 001	Batch Transaction # Is Not Numeric
DE 002	Batch Transaction # Not Correct
DE 003	Set Bad Addendum Sequence Number
DE 004	Addendum Sequence # Non-Numeric
DE 005	Not A Discover Card
DE 006	Version # Non-Numeric
DE 007	Cash Disbursed Is Non-Numeric
DE 008	Part-Shipment. Indicator Invalid
DE 009	Auth Date Is Non-Numeric
DE 010	Auth Date Is Invalid
DE 012	Disc Tran Id Is Non-Numeric

A.1.8 Gift Card Detail Record Processing

TABLE A-8 Gift Card Detail Record Processing Reject Codes

Reject Code	Reason for Reject
G0 001 - Fatal	File Header Not Present
G0 002 - Fatal	Batch Header Not Present

TABLE A-8 Gift Card Detail Record Processing Reject Codes

Reject Code	Reason for Reject
G0 003 - Fatal	Batch Transaction Number Not Numeric
G0 004 - Fatal	Batch Transaction Number Not One Greater Than Previous Transaction
G0 005	Addendum Sequence Number Not Equal To Zero
G0 006	Invalid Transaction Type
G0 007	Invalid Reversal Type
G0 008	Invalid Account Number
G0 009	Invalid Original Date/Time
G0 010	Invalid Transaction Amount
G0 011	Invalid Gift Card Processing Indicator

A.1.9 Reference Information Processing

TABLE A-9 Reference Information Processing Reject Codes

Reject Code	Reason for Reject
DR 001	Invalid Batch Transaction Number
DR 002	Invalid Addendum Sequence Number

A.1.10 Additional Request Information Processing

TABLE A-10 Additional Request Information Processing Reject Codes

Reject Code	Reason for Reject
DA 001	Invalid Batch Transaction Number
DA 002	Invalid Addendum Sequence Number
DA 005	Bad CVV2 Presence Indicator
DA 006	Bad CVV2 Value
DA 007	Transponder Code Invalid
DA 008	Deferred Billing Indicator Invalid
DA 009	Payment on Existing Debt Invalid
DA 010	US Relationship Participant Invalid

TABLE A-10 Additional Request Information Processing Reject Codes

Reject Code	Reason for Reject
DA 011	Invalid Market Specific Data Indicator
DA 012	Invalid CAT Level Indicator
DA 013	First Time Recurring Payment Indicator Invalid
DA 014	Invalid partial authorization indicator
DA 015	Invalid PINless conversion flag indicator
DA 016	Invalid PINless conversion attempt
DA 017	Invalid PINless method attempt
DA 018	Invalid PINless network
DA 019	Invalid POS Environment Indicator
DA 020	Invalid Estimated Authorization Indicator
DA 021	Invalid Subsequent Auth Reason Code
DA 022	Visa Tran ID Not Numeric
DA 023	Invalid Transaction Integrity Class

A.1.11 Supplemental Authorization Processing

TABLE A-11 Supplemental Authorization Processing Reject Codes

Reject Code	Reason for Reject
D1 001	Invalid Batch Transaction Number
D1 002	Invalid Addendum Sequence Number
D1 003	Invalid Supplemental Authorization Type
D1 004	Transaction Identifier Not Numeric
D1 005	Retrieval Reference Number Not Numeric
D1 006	Reversal Transaction But Retrieval Reference Number Not Present
D1 007	Supplemental Amount Not Numeric

A.1.12 American Express Detail Processing

TABLE A-12 American Express Detail Processing

Reject Code	Reason for Reject
DX 001	Batch Transaction Number Not Numeric
DX 002	Batch Transaction Number Not Equal To Batch Transaction Number in D0 Record
DX 003	Addendum Sequence Number Equals Zero
DX 004	Addendum Sequence Number Not One Greater Than Addendum Sequence Number in Previous Record
DX 005	Format Version Not Equal to One
DX006	American Express Batch Header Missing
DX007	American Express Detail Addendum Missing
DX008	American Express Charge Descriptor Invalid
DX009	'AX' addendum not valid with 'AP' addendum

A.1.13 Amex Purchasing Card Processing

TABLE A-13 Amex Purchasing Card Processing Reject Codes

Reject Code	Reason for Reject
AP 001	Batch Transaction Number Not Numeric
AP 002	Batch Transaction Number Not Equal To Batch Transaction Number in D0 Record
AP 003	Addendum Sequence Number Equals Zero
AP 004	Addendum Sequence Number Not One Greater Than Addendum Sequence Number in Previous Record
AP 005	Account is not American Express
AP 006	Format Record Type not Increasing
AP 007	Format Record Type Invalid
AP 008	American Express Charge Descriptor Invalid
AP 009	AP Addendum Not Valid With 'AX' Addendum
AP 010	AP Addendum Format Record Type Out Of Sequence
AP 011	AP Addenda Format Record Type 2 Missing
AP 101	Invalid Sales Tax Indicator

TABLE A-13 Amex Purchasing Card Processing Reject Codes

Reject Code	Reason for Reject
AP 102	Invalid Sales Tax Amount
AP 103	Invalid Customer Reference Number
AP 104	Invalid Ship-To Zip Code
AP 299	Format Record Type '2 Addenda Missing

A.1.14 Amex Retail Addendum Processing

TABLE A-14 Amex Retail Addendum Processing Reject Codes

Reject Code	Reason for Reject
AR 001	Batch Transaction Number Not Numeric
AR 002	Batch Transaction Number Not Equal To Batch Transaction Number in D0 Record
AR 003	Addendum Sequence Number Equals Zero
AR 004	Addendum Sequence Number Not One Greater Than Addendum Sequence Number in Previous Record
AR 006	AR Record Type 3 Addendum, Not Permitted with AX Addendum
AR 009	Format Record Type Invalid
AR 100	Format Record Type 1 Out Of Sequence
AR 101	Transaction Identifier Invalid
AR 102	Transaction Format Code Invalid
AR 103	Media Code Invalid
AR 104	Currency Code Invalid
AR 111	Card Data Input Capability Code Invalid
AR 112	Cardholder Authentication Code Invalid
AR 113	Card Capture Capability Code Invalid
AR 114	Operating Environment Code Invalid
AR 115	Cardholder Present Code Invalid
AR 116	Card Present Code Invalid
AR 117	Card Data Input Mode Invalid
AR 118	Cardmember Authentication Code Invalid
AR 119	Cardmember Authentication Entity Code Invalid

TABLE A-14 Amex Retail Addendum Processing Reject Codes

Reject Code	Reason for Reject
AR 120	Card Data Output Capability Code Invalid
AR 121	Terminal Output Capability Code Invalid
AR 122	PIN Capture Capability Code Invalid
AR 200	Format Record Type 2 Out Of Sequence
AR 300	Format Record Type 3 Out Of Sequence
AR 301	Retail Item Description Is Blank
AR 302	Retail Item Quantity Invalid
AR 303	Retail Item Amount Invalid
AR 399	Format Record Type 3 Addenda Missing
AR 400	Format Record Type 4 Out Of Sequence
AR 401	Additional Amount Type Invalid
AR 402	Additional Amount Invalid
AR 403	Additional Amount Sign Invalid

A.1.15 Amex Corporate Card Addendum Processing

TABLE A-15 Amex Corporate Card Addendum Processing Reject Codes

Reject Code	Reason for Reject
AC 001	Batch Transaction Number Not Numeric
AC 002	Batch Transaction Number Not Equal To Batch Transaction Number in D0 Record
AC 003	Addendum Sequence Number Equals Zero
AC 004	Addendum Sequence Number Not One Greater Than Addendum Sequence Number in Previous Record
AC 006	AC Addendum Not Permitted with AX Addendum
AC 007	AC Addenda Must Be Preceded by AR Addenda
AC 009	Format Record Type Invalid
AC 100	Format Record Type A Out Of Sequence
AC 103	Total Tax Amount Invalid
AC 200	Format Record Type B Out Of Sequence
AC 201	Charge Description Is Blank

TABLE A-15 Amex Corporate Card Addendum Processing Reject Codes

Reject Code	Reason for Reject
AC 202	Item Quantity Invalid
AC 203	Item Amount Invalid
AC 300	Format Record Type C Out Of Sequence
AC 301	Requestor Name Blank

A.1.16 Cap One Private Label Processing

TABLE A-16 Cap One Private Label Processing

Reject Code	Reason for Reject
C1 001	Batch Transaction # Is Not Numeric
C1 002	Batch Transaction # Not Correct
C1 003	Addendum Sequence Number Equals Zero
C1 004	Addendum Sequence Number Not One Greater Than Addendum Sequence Number in Previous Record
C1 005	Invalid Filler

A.1.17 Facsimile Draft Information Processing

TABLE A-17 Facsimile Draft Information Processing Reject Codes

Reject Code	Reason for Reject
FI 001	Batch Transaction Number Not Numeric
FI 002	Batch Transaction Number Not equal to batch Transaction Number in D0 Record
FI 003	Addendum Sequence Number Equal to Zero
FI 004	Addendum Sequence Number Not One Greater Than Addendum Sequence Number in Previous Record
FI 005	Invalid Expiration Date
FI 006	Transaction Time Invalid
FI 007	Store Number Not Numeric
FI 008	Register Number Not Numeric
FI 009	Salesperson Number Not Numeric

TABLE A-17 Facsimile Draft Information Processing Reject Codes

Reject Code	Reason for Reject
FI 010	Total Merchandise Descriptions Not Numeric
FI 011	Batch Number Not Numeric
FI012	Invalid AVS Response Code

A.1.18 Facsimile Draft Description Processing

TABLE A-18 Facsimile Draft Description Processing Reject Codes

Reject Code	Reason for Reject
FD 001	More Than Five Facsimile Draft Description Addenda Received
FD 002	Batch Transaction Number Not Numeric
FD 003	Batch Transaction Number Not Equal To Batch Transaction Number in D0 Record
FD 004	Addendum Sequence Number Equal to Zero
FD 005	Addendum Sequence Number Not One Greater Than Addendum Sequence Number in Previous Record
FD 006	First Merchandise Amount Not Numeric
FD 007	Second Merchandise Amount Not Numeric

A.1.19 Facsimile Draft Shipping Information Processing

TABLE A-19 Facsimile Draft Shipping Information Processing Reject Codes

Reject Code	Reason for Reject
FS 001	Batch Transaction Number Not Numeric
FS 002	Batch Transaction Number Not Equal to Batch Transaction Number in D0 Record
FS 003	Addendum Sequence Number Equal to Zero
FS 004	Addendum Sequence Number Not One Greater Than Addendum Sequence Number in Previous Record

A.1.20 IAS Auto-Substantiation Information Processing

TABLE A-20 IAS Auto-Substantiation Information Processing Reject Codes

Reject Code	Reason for Reject
IA 001	Batch transaction number not numeric
IA 002	Batch transaction number not equal to batch transaction number in D0 record
IA 003	Addendum sequence number equals 0
IA 004	Addendum sequence number not one greater than addendum sequence number in previous record

A.1.21 Transaction Description Processing

TABLE A-21 Transaction Description Processing Rejects Code

Reject Code	Reason for Reject
DD001	Invalid Batch Transaction Number
DD002	Invalid Addendum Sequence Number

A.1.22 MasterCard Basic IC Presentment Processing

TABLE A-22 MasterCard Basic IC Presentment Processing Reject Codes

Reject Code	Reason for Reject
MB001	Batch Transaction Number Not Numeric
MB002	Batch Transaction Number Not Equal to Batch Transaction Number in D0 Record
MB003	Addendum Sequence Number Equals 0
MB004	Addendum Sequence Number Not One Greater than Addendum Sequence Number in Previous Record
MB005	Banknet Date Invalid
MB006	Merchant Category Invalid
MB007	Cardholder Activated Terminal Level Invalid
MB008	Invalid CVC2 Result Code
MB009	Invalid Cash Back Amount
MB010	Invalid Track Service Code

TABLE A-22 MasterCard Basic IC Presentment Processing Reject Codes

Reject Code	Reason for Reject
MB011	Invalid Retrieval Reference Number
MB012	Invalid Transaction Category Indicator
MB013	Invalid Transaction Integrity Class
MB025	Addendum Not Permitted

A.1.23 MasterCard Additional Info Processing

TABLE A-23 MasterCard Additional Info Processing Reject Codes

Reject Code	Reason for Reject
MC001	Batch Transaction Number Not Numeric
MC002	Batch Transaction Number Not Equal to Batch Transaction Number in D0 Record
MC003	Addendum Sequence Number Equals 0
MC004	Addendum Sequence Number Not One Greater than Addendum Sequence Number in Previous Record
MC012	Original Authorization Amount Invalid
MC013	Total Authorization Amount Invalid
MC014	Original Systems Trace Audit Number Invalid
MC015	Total Auth Amount > Original Auth Amount
MC025	Addendum 'MC' Not Permitted
MC026	Addendum 'MC' Required for Partial Reversals.

A.1.24 MasterCard Purchasing Card Processing

TABLE A-24 MasterCard Purchasing Card Processing Reject Codes

Reject Code	Reason for Reject
MP001	Batch Transaction Number Not Numeric
MP002	Batch Transaction Number Not Equal to Batch Transaction Number in D0 Record
MP003	Addendum Sequence Number Equals 0

TABLE A-24 MasterCard Purchasing Card Processing Reject Codes

Reject Code	Reason for Reject
MP004	Addendum Sequence Number Not One Greater than Addendum Sequence Number in Previous Record
MP005	Format Record Type Not Increasing
MP006	Format Record Type Invalid
MP100	Format Record Type 1 Out of Sequence
MP101	Invalid Sales Tax Indicator
MP102	Invalid Sales Tax Amount
MP103	Invalid Freight Amount
MP104	Invalid Duty Amount
MP105	Invalid National Tax Indicator
MP106	Invalid National Tax Amount
MP200	Format Record Type 2 Out of Sequence
MP300	Format Record Type 3 Out of Sequence
MP301	Invalid Extended Item Amount
MP302	Invalid Extended Item Amount Sign
MP303	Invalid Extended Item Net/Gross Indicator
MP399	Too many purchasing card addenda
MP400	Format Record Type 4 Out of Sequence
MP401	Format Record Type 3 Missing
MP402	Invalid Value Added Tax Rate
MP403	Invalid Value Added Tax Amount
MP404	Invalid Discount Indicator
MP405	Invalid Discount Amount

A.1.25 MasterCard Corporate Addendum Version 7 Processing

TABLE A-25 MasterCard Corporate Addendum Version 7 Processing Reject Codes

Reject Code	Reason for Reject
M7001	Batch Transaction Number Not Numeric
M7002	Batch Transaction Number Not Equal to Batch Transaction Number in D0 Record

TABLE A-25 MasterCard Corporate Addendum Version 7 Processing Reject Codes

Reject Code	Reason for Reject
M7003	Addendum Sequence Number Equals 0
M7004	Addendum Sequence Number not one greater than the Addendum Sequence Number in Previous Record for the first M7 addendum, or, for subsequent M7 addendum, the Addendum Sequence Number differs from preceding M7 addendum.
M7006	Format Record Type Invalid

A.1.26 Visa Basic CPS Processing

TABLE A-26 Visa Basic CPS Processing Reject Codes

Reject Code	Reason for Reject
VB001	Batch Transaction Number Not Numeric
VB002	Batch Transaction Number Not Equal to Batch Transaction Number in D0 Record
VB003	Addendum Sequence Number Equals 0
VB004	Addendum Sequence Number Not One Greater Than Addendum Sequence Number in Previous Record
VB005	Invalid Authorized Amount
VB006	Invalid Cardholder Activated Terminal Indicator
VB007	Invalid Currency Code
VB008	Invalid ACI Indicator
VB009	Invalid AVS Response Code
VB010	Invalid VISA Tran ID
VB011	Invalid Merchant Category Code
VB012	Invalid Total Authorization Amount
VB013	Retrieval Reference Number Invalid
VB014	Invalid Market Specific Data Indicator
VB015	Invalid CVV2 Result Code
VB020	Replacement Amount Greater Than or Equal To The Original Authorization Amount For Partial Reversal
VB025	Addendum Not Permitted
VB026	VB Addendum Required For Partial Reversals

TABLE A-26 Visa Basic CPS Processing Reject Codes

Reject Code	Reason for Reject
VB027	Original Auth Amount Not Equal to Total Auth Amount

A.1.27 Visa Additional Info Processing

TABLE A-27 Visa Additional Info Processing Reject Codes

Reject Code	Reason for Reject
VC001	Batch Transaction Number Not Numeric
VC002	Batch Transaction Number Not Equal to Batch Transaction Number in D0 Record
VC003	Addendum Sequence Number Equals 0
VC004	Addendum Sequence Number Not One Greater than Addendum Sequence Number in Previous Record
VC005	Card Level Results Code Invalid
VC025	Addendum VC Not Permitted

A.1.28 Visa CPS Direct Marketing Processing

TABLE A-28 Visa CPS Direct Marketing Processing Reject Codes

Reject Code	Reason for Reject
VD001	Batch Transaction Number Not Numeric
VD002	Batch Transaction Number Not Equal to Batch Transaction Number in D0 Record
VD003	Addendum Sequence Number Equals 0
VD004	Addendum Sequence Number Not One Greater than Addendum Sequence Number in Previous Record
VD005	Invalid AVS Response Code
VD006	Invalid Merchant Telephone Number
VD007	Invalid Purchase Identifier Format Code
VD008	Invalid Purchase Type
VD025	Addendum Not Permitted

A.1.29 Visa Purchasing Card Processing

TABLE A-29 Visa Purchasing Card Processing Reject Codes

Reject Code	Reason for Reject
VP001	Batch Transaction Number Not Numeric
VP002	Batch Transaction Number Not Equal to Batch Transaction Number in D0 Record
VP003	Addendum Sequence Number Equals 0
VP004	Addendum Sequence Number Not One Greater than Addendum Sequence Number in Previous Record
VP005	Format Record Type Not Increasing
VP006	Format Record Type Invalid
VP100	Format Record Type 1 Out of Sequence
VP101	Invalid Sales Tax Indicator
VP102	Invalid Sales Tax Amount
VP103	Invalid Customer Code
VP104	Invalid National Tax Indicator
VP105	Invalid National Tax Amount
VP106	Invalid Other Tax Amount
VP200	Format Record Type 2 Out of Sequence
VP201	Invalid Discount Amount
VP202	Invalid Freight/Shipping Amount
VP300	Format Record Type 3 Out of Sequence
VP301	Invalid Duty Amount
VP302	Invalid Order Date
VP303	Invalid VAT/Tax Amount
VP304	Invalid VAT/Tax Rate
VP400	Format Record Type 4 Out of Sequence
VP401	Invalid Unit Cost
VP402	Invalid Quantity
VP499	Too many purchasing card addenda
VP500	Format Record Type 5 Out of Sequence
VP501	Format Record Type 4 Missing

TABLE A-29 Visa Purchasing Card Processing Reject Codes

Reject Code	Reason for Reject
VP502	Invalid Type of Supply
VP503	Invalid VAT Tax Amount
VP504	Invalid VAT Tax Rate
VP505	Invalid Discount/Line Item
VP506	Invalid Line Item Total

A.1.30 Payee Information Addendum #1 Processing

TABLE A-30 Payee Information Addendum #1 Processing Reject Codes

Reject Code	Reason for Reject
B1 001	Invalid Batch Transaction Number
B1 002	Batch Transaction Number Not Incremented
B1 003	Addendum Sequence Number Is Zero
B1 004	Invalid Addendum Sequence Number
B1 005	Invalid Character in Payee Name
B1 006	Payee Name Is All Blanks
B1 007	Invalid Character in Payee Phone Number
B1 008	Payee Phone Number Is All Blanks
B1 009	Filler Is Not All Blanks

A.1.31 Payee Information Addendum #2 Processing

TABLE A-31 Payee Information Addendum #2 Processing Reject Codes

Reject Code	Reason for Reject
B2 001	Invalid Batch Transaction Number
B2 002	Batch Transaction Number Not Incremented
B2 003	Addendum Sequence Number Is Zero
B2 004	Invalid Addendum Sequence Number
B2 005	Invalid Character in Payee Account Number
B2 006	Payee Account Number Is All Blanks

TABLE A-31 Payee Information Addendum #2 Processing Reject Codes

Reject Code	Reason for Reject
B2 007	Invalid Value - Account Type
B2 008	Invalid Value – Transaction Type
B2 009	Invalid Value – Payee City
B2 010	Invalid Value – Payee State
B2 011	Invalid Value – Payee Country
B2 012	Invalid Value – Payee Zip Code

A.1.32 Mag Stripe Data Processing

TABLE A-32 Mag Stripe Data Processing Reject Codes

Reject Code	Reason for Reject
T1001	Invalid Batch Transaction Number
T1002	Invalid Addendum Sequence Number
T1003	Invalid Entry Mode for Track Data
T1004	Invalid POS Terminal Capability Code
T1005	Invalid Track Type Code
T1006	Track Data Missing, Entry Mode '90'
T1007	Track Data Not Allowed for this Merchant
T1010	Invalid Track 1 Data Length
T1011	First Byte of Track Data Not 'B'
T1012	First Track 1 Field Separator Not Found
T1013	Second Track 1 Field Separator Not Found
T1014	Invalid Track 1 Data After Second Field Separator
T1020	Invalid Track 2 Data Length
T1021	Track 2 Field Separator Bad or Missing
T1022	Track 2 Data Bad
T2001	Invalid Batch Transaction Number
T2002	Invalid Addendum Sequence Number
T2003	T2 Addendum Not Allowed
T2004	Columns 13-15 Must Be Blank

A.1.33 EMV V1 Detail Record Processing

TABLE A-33 EMV V1 Detail Record Processing Reject Codes

Reject Code	Reason for Reject
V1 001	Batch Transaction # Is Not Numeric
V1 002	Batch Transaction # Not Correct
V1 003	Addendum Sequence Number Equals Zero
V1 004	Addendum Sequence Number Not One Greater Than Addendum Sequence Number in Previous Record
V1 005	Invalid Application Cryptogram (Tag 9F26)
V1 006	Invalid Unpredictable Number (Tag 9F37)
V1 007	Invalid Application Transaction Counter (Tag 9F36)
V1 008	Invalid Terminal Verification Results (Tag 95)
V1 009	Invalid Card Sequence Number (Tag 5F34)
V1 010	Invalid Transaction Date (Tag 9A)
V1 011	Invalid Transaction Type (Tag 9C)
V1 012	Invalid Amount, Authorized (Tag 9F02)
V1 013	Invalid Transaction Currency Code (Tag 5F2A)
V1 014	Invalid Reserved Data
V1 015	Invalid Offline Indicator
V1 016	Invalid Filler
V1 017	Invalid Transaction - Presentment only
V1 100	Missing EMV Detail record

A.1.34 EMV V2 Detail Record Processing

TABLE A-34 EMV V2 Detail Record Processing Reject Codes

Reject Code	Reason for Reject
V2 001	Batch Transaction # Is Not Numeric
V2 002	Batch Transaction # Not Correct
V2 003	Addendum Sequence Number Equals Zero
V2 004	Addendum Sequence Number Not One Greater Than Addendum Sequence Number in Previous Record

TABLE A-34 EMV V2 Detail Record Processing Reject Codes

Reject Code	Reason for Reject
V2 005	Invalid Cryptogram Information Data (Tag 9F27)
V2 006	Invalid Issuer Application Data Length
V2 007	Invalid Issuer Application Data (Tag 9F10)
V2 008	Invalid Transaction - Presentment only

A.1.35 EMV V3 Detail Record Processing

TABLE A-35 EMV V3 Detail Record Processing Reject Codes

Reject Code	Reason for Reject
V3 001	Batch Transaction # Is Not Numeric
V3 002	Batch Transaction # Not Correct
V3 003	Addendum Sequence Number Equals Zero
V3 004	Addendum Sequence Number Not One Greater Than Addendum Sequence Number in Previous Record
V3 005	Invalid Application Interchange Profile (Tag 82)
V3 006	Invalid Terminal Capabilities (Tag 9F33)
V3 007	Invalid Form Factor Indicator (Tag 9F6E)
V3 008	Invalid Issuer Authentication Data (Tag 91)
V3 009	Invalid Terminal Country Code (Tag 9F1A)
V3 010	Invalid Amount, Other (Numeric) (Tag 9F03)
V3 011	Invalid Filler
V3 012	Invalid Transaction - Presentment only

A.1.36 EMV V4 Detail Record Processing

TABLE A-36 EMV V4 Detail Record Processing Reject Codes

Reject Code	Reason for Reject
V4 001	Batch Transaction # Is Not Numeric
V4 002	Batch Transaction # Not Correct
V4 003	Addendum Sequence Number Equals Zero

TABLE A-36 EMV V4 Detail Record Processing Reject Codes

Reject Code	Reason for Reject
V4 004	Addendum Sequence Number Not One Greater Than Addendum Sequence Number in Previous Record
V4 005	Invalid Issuer Script Results (Tag 9F5B)
V4 006	Invalid Filler
V4 007	Invalid Transaction - Presentment only

A.1.37 Token Data Processing

TABLE A-37 Token Data Processing

Reject Code	Reason for Reject
TK001	Batch Transaction Number Not Numeric
TK002	Batch Transaction Number Not Equal to Batch Transaction Number in Primary Detail Record
TK003	Addendum Sequence Number Equals 0
TK004	Addendum Sequence Number Not One Greater than Addendum Sequence Number in Previous Record
TK005	Token Field is Blank
TK006	Token ID Field is Blank
TK007	Token Date/Time Field is Not Numeric

A.1.38 Batch Trailer Processing

TABLE A-38 Batch Trailer Processing Reject Codes

Reject Code	Reason for Reject
BT 001 - Fatal	File Header Not Present
BT 002 - Fatal	Batch Header Not Present
BT 003 - Fatal	Batch Number Not Numeric
BT 004 - Fatal	Batch Number in Batch
BT 005 - Fatal	Batch Record Count Incorrect
BT 006 - Fatal	Batch Transaction Count Incorrect
BT 007 - Fatal	Batch Transaction Amount Incorrect

TABLE A-38 Batch Trailer Processing Reject Codes

Reject Code	Reason for Reject
BT 008 - Fatal	Merchant Assessment Fee Invalid
BT 009 - Fatal	Invalid PinLess Debit Record in Batch

A.1.39 File Trailer Processing

TABLE A-39 File Trailer Processing Reject Code

Reject Code	Reason for Reject
FT 001 - Fatal	File Header Not Present
FT 002 - Fatal	Batch Trailer Not Present
FT 003 - Fatal	File Type Incorrect
FT 004 - Fatal	Relative File Number Not Numeric
FT 005 - Fatal	Relative File Number Incorrect
FT 006 - Fatal	Batch Count Incorrect
FT 007 - Fatal	Transaction Count Incorrect
FT 008 - Fatal	Transaction Amount Incorrect
FT 009 - Fatal	File Contains No Transactions

A.1.40 Miscellaneous Error Codes

TABLE A-40 Miscellaneous Error Codes

Reject Code	Reason for Reject
DF 001 - Fatal	Duplicate File Received
DB 001 - Fatal	Duplicate Batch Received
IE 001 - Fatal	Internal Program Error
RW 001 - Fatal	Report File Did Not Open

A.2 Output Processing

This section describes the following output processing reject codes:

- [Initial Processing](#) on page 128
- [File Header Processing](#) on page 128
- [Batch Header Processing](#) on page 129
- [American Express Header Processing](#) on page 129
- [Detail Record Processing](#) on page 129
- [Discover Addendum Record Processing](#) on page 129
- [Batch Trailer Processing](#) on page 129
- [File Trailer Processing](#) on page 130
- [Payee Information Addendum #1 Processing](#) on page 130
- [Payee Information Addendum #2 Processing](#) on page 130

A.2.1 Initial Processing

TABLE A-41 Initial Processing Reject Codes

Reject Code	Reason for Reject
MA 001 - Fatal	Invalid Record Type
EP 001 - Fatal	File Trailer Not Present
OF 001 - Fatal	Input Log File Did Not Open
OF 002 - Fatal	Input OBS File Did Not Open
OF 003 - Fatal	Output Log File Did Not Open
OF 004 - Fatal	Output Log File Did Not Open
OF 005 - Fatal	Output Log File Did Not Open

A.2.2 File Header Processing

TABLE A-42 File Header Processing Reject Code

Reject Code	Reason for Reject
FH 001 - Fatal	More Than One File Header Sent

A.2.3 Batch Header Processing

TABLE A-43 Batch Header Processing Reject Code

Reject Code	Reason for Reject
BH 001 - Fatal	File Header Not Present

A.2.4 American Express Header Processing

TABLE A-44 American Express Header Processing Reject Code

Reject Code	Reason for Reject
BX 001 - Fatal	Batch Header Not Present

A.2.5 Detail Record Processing

TABLE A-45 Detail Record Processing Reject Codes

Reject Code	Reason for Reject
D0 001 - Fatal	Batch Header Not Present
CT 001 - Fatal	Invalid Response Code

A.2.6 Discover Addendum Record Processing

TABLE A-46 Discover Addendum Record Processing Reject Codes

Reject Code	Reason for Reject
DE 001	Maximum Addendum Under 'De' Allowed Exceeded
DE 002	Addendum Number Not 1 Or 2 Or 3
DE 003	Routine Does Not Match Addendum Number

A.2.7 Batch Trailer Processing

TABLE A-47 Batch Trailer Processing Reject Codes

Reject Code	Reason for Reject
BT 001 - Fatal	File Header Not Present

TABLE A-47 Batch Trailer Processing Reject Codes

Reject Code	Reason for Reject
BT 002 - Fatal	Batch Header Not Present

A.2.8 File Trailer Processing

TABLE A-48 File Trailer Processing Reject Codes

Reject Code	Reason for Reject
FT 001 - Fatal	File Header Not Present
FT 002 - Fatal	Batch Trailer Not Present

A.2.9 Payee Information Addendum #1 Processing

TABLE A-49 Payee Information Addendum #1 Processing Reject Codes

Reject Code	Reason for Reject
B1 001	Invalid Batch Transaction Number
B1 002	Batch Transaction Number Not Incremented
B1 003	Addendum Sequence Number Is Zero
B1 004	Invalid Addendum Sequence Number
B1 005	Invalid Character in Payee Name
B1 006	Payee Name Is All Blanks
B1 007	Invalid Character in Payee Phone Number
B1 008	Payee Phone Number Is All Blanks
B1 009	Filler Is Not All Blanks

A.2.10 Payee Information Addendum #2 Processing

TABLE A-50 Payee Information Addendum #2 Processing Reject Codes

Reject Code	Reason for Reject
B2 001	Invalid Batch Transaction Number
B2 002	Batch Transaction Number Not Incremented
B2 003	Addendum Sequence Number Is Zero

TABLE A-50 Payee Information Addendum #2 Processing Reject Codes

Reject Code	Reason for Reject
B2 004	Invalid Addendum Sequence Number
B2 005	Invalid Character in Payee Account Number
B2 006	Payee Account Number Is All Blanks
B2 007	Filler Is Not All Blanks

Signed Amount Field Formats

Because the amount fields in the BT and FT addendum records can be positive or negative, you use the right-most digit to convey the sign, which is an IBM programming convention.

B.1 Determining the Character for Right-Most Digit

This section describes how you determine the character for the right-most digit for positive ([Table B-1](#)) and negative amounts ([Table B-2](#)). See [Table B-3](#) for examples of both.

B.1.1 Positive Amounts

If the amount is positive, use [Table B-1](#) to determine what to send for the right-most digit.

TABLE B-1 Positive Amounts

Right-Most Digit	Send This Character	Hex Value
0	{ or 0	x'C0' or x'F0'
1	A or 1	x'C1' or x'F1'
2	B or 2	x'C2' or x'F2'
3	C or 3	x'C3' or x'F3'
4	D or 4	x'C4' or x'F4'
5	E or 5	x'C5' or x'F5'
6	F or 6	x'C6' or x'F6'
7	G or 7	x'C7' or x'F7'
8	H or 8	x'C8' or x'F8'
9	I or 9	x'C9' or x'F9'

B.1.2 Negative Amounts

If the amount is negative, use [Table B-2](#) to determine what to send for the right-most digit.

TABLE B-2 Negative Amounts

Right-Most Digit	Send This Character	Hex Value
0	}	x'D0'
1	J	x'D1'
2	K	x'D2'
3	L	x'D3'
4	M	x'D4'

TABLE B-2 Negative Amounts

Right-Most Digit	Send This Character	Hex Value
5	N	x'D5'
6	O	x'D6'
7	P	x'D7'
8	Q	x'D8'
9	R	x'D0'

TABLE B-3 Right-Most Digit Positive and Negative Examples

Amount	Value to Send
\$123.00	0000001230{
\$123.01	0000001230A
\$123.05	0000001230E
\$123.09	0000001230I
\$123.00	0000001230}
-\$123.01	0000001230J
-\$123.05	0000001230N
-\$123.09	0000001230R

B.2 Input Processing

This section describes the following input processing reject codes:

- Initial Processing
- File Header Processing
- Batch Header Processing
- Batch Header Continued Processing
- American Express Batch Header Processing
- Detail Record Processing
- Discover Addendum Record Processing
- Gift Card Detail Record Processing
- Reference Information Processing
- Additional Request Information Processing
- Supplemental Authorization Processing
- American Express Detail Processing
- Amex Purchasing Card Processing
- Amex Retail Addendum Processing
- Amex Corporate Card Addendum Processing
- Facsimile Draft Information Processing
- Facsimile Draft Description Processing
- Facsimile Draft Shipping Information Processing
- IIAS Auto-Substantiation Information Processing
- Transaction Description Processing
- MasterCard Basic IC Presentment Processing
- MasterCard Additional Info Processing
- MasterCard Purchasing Card Processing
- MasterCard Corporate Addendum Version 7 Processing
- Visa Basic CPS Processing
- Visa Additional Info Processing
- Visa CPS Direct Marketing Processing
- Visa Purchasing Card Processing
- Payee Information Addendum #1 Processing
- Payee Information Addendum #2 Processing
- Mag Stripe Data Processing
- EMV V1 Detail Record Processing
- EMV V2 Detail Record Processing
- EMV V3 Detail Record Processing

- [EMV V4 Detail Record Processing](#)
- [Token Data Processing](#)
- [Batch Trailer Processing](#)
- [File Trailer Processing](#)
- [Miscellaneous Error Codes](#)

B.2.1 Initial Processing

TABLE B-4 Initial Processing Reject Codes

Reject Code	Reason for Reject
MA 001 - Fatal	Invalid Record Type
MA 002 - Fatal	Records Encountered After File Trailer
EP 001 - Fatal	File Trailer Not Present
EP 002 - Fatal	Output Control File Did Not Open
EP 003 - Fatal	Input File Contains No Records
OF 001 - Fatal	Input Log File Did Not Open
OF 002 - Fatal	Output Log File Did Not Open
OF 006 - Fatal	CTLFILE Did Not Open
OF 007 - Fatal	No Detail records on OBS Input File
FC 001 - Fatal	Input Control File Did Not Open
FC 002 - Fatal	Previous File Has Not Finished Processing

B.2.2 File Header Processing

TABLE B-5 File Header Processing Reject Codes

Reject Code	Reason for Reject
FH 001 - Fatal	More Than One File Header Sent
FH 002 - Fatal	Incorrect File Type
FH 003 - Fatal	Incorrect Request File Version
FH 004 - Fatal	Incorrect Reply File Version
FH 005 - Fatal	Relative File Number Not Numeric
FH 006 - Fatal	File Header Process Date Invalid
FH 007 - Fatal	File Header Originating ID Invalid

TABLE B-5 File Header Processing Reject Codes

Reject Code	Reason for Reject
FH 008 - Fatal	File Header Destination ID Invalid
FH 009 - Fatal	File Header Creation Date Invalid
FH 010 - Fatal	File Header Creation Time Invalid
FH 011 - Fatal	Read of JFCB Failed

B.2.3 Batch Header Processing

TABLE B-6 Batch Header Processing Reject Codes

Reject Code	Reason for Reject
BH 001 - Fatal	File Header Not Present
BH 002 - Fatal	More Than One Batch Header Sent
BH 003 - Fatal	Batch Number Not Numeric
BH 004 - Fatal	Batch Number Not One Greater Than Batch Number of Previous Batch
BH 005 - Fatal	Batch Header Process Date Invalid
BH 006 - Fatal	Batch Header Process Date Illegal
BH 007 - Fatal	Merchant Number Not Numeric
BH 008 - Fatal	Merchant Category Code Not Numeric
BH 009 - Fatal	Merchant Country Code Invalid
BH 010 - Fatal	Reauth Table Code Invalid

B.2.4 Batch Header Continued Processing

TABLE B-7 Batch Header Continued Processing Reject Codes

Reject Code	Reason for Reject
BC 001 - Fatal	File Header Not Present
BC 002 - Fatal	Batch Header Not Present
BC 003 - Fatal	Batch Number Not Numeric
BC 004 - Fatal	Batch Number Incorrect
BC 005 - Fatal	Batch Header Out of Place

TABLE B-7 Batch Header Continued Processing Reject Codes

Reject Code	Reason for Reject
BC 006 - Fatal	Currency Code Invalid
BC 007 - Fatal	Token Request Indicator Invalid
BC 008 - Fatal	Card Results Flag Invalid

B.2.5 American Express Batch Header Processing

TABLE B-8 American Express Batch Header Processing Reject Codes

Reject Code	Reason for Reject
BX 001 - Fatal	File Header Not Present
BX 002 - Fatal	Batch Header Not Present
BX 003 - Fatal	Service Establishment Number Not Numeric

B.2.6 Detail Record Processing

TABLE B-9 Detail Record Processing Reject Codes

Reject Code	Reason for Reject
D0 001 - Fatal	File Header Not Present
D0 002 - Fatal	Batch Header Not Present
D0 003 - Fatal	Batch Transaction Number Not Numeric
D0 004 - Fatal	Batch Transaction Number Not One Greater Than Previous Transaction
D0 005	Addendum Sequence Number Not Equal To Zero
D0 006	Invalid Transaction Type
D0 007	Invalid Deposit Method
D0 008	Invalid Account Number
D0 009	Invalid Expiration Date
D0 010	Invalid Transaction Date
D0 011	Invalid Transaction Amount
D0 012	Invalid Authorization Date
D0 013	Invalid POS Entry Mode

TABLE B-9 Detail Record Processing Reject Codes

Reject Code	Reason for Reject
D0 014	Invalid Authorization Source
D0 015	Invalid Authorization Code
D0 016	Invalid POS Terminal Capability Code
D0 017	Invalid Cardholder ID Method
D0 018	Invalid Deposit Method for Online Reversal
D0 019	Invalid Auth Code for Online Reversal

B.2.7 Discover Addendum Record Processing

TABLE B-10 Discover Addendum Record Processing Reject Codes

Reject Code	Reason for Reject
DE 001	Batch Transaction # Is Not Numeric
DE 002	Batch Transaction # Not Correct
DE 003	Set Bad Addendum Sequence Number
DE 004	Addendum Sequence # Non-Numeric
DE 005	Not A Discover Card
DE 006	Version # Non-Numeric
DE 007	Cash Disbursed Is Non-Numeric
DE 008	Part-Shipment. Indicator Invalid
DE 009	Auth Date Is Non-Numeric
DE 010	Auth Date Is Invalid
DE 012	Disc Tran Id Is Non-Numeric

B.2.8 Gift Card Detail Record Processing

TABLE B-11 Gift Card Detail Record Processing Reject Codes

Reject Code	Reason for Reject
G0 001 - Fatal	File Header Not Present
G0 002 - Fatal	Batch Header Not Present
G0 003 - Fatal	Batch Transaction Number Not Numeric

TABLE B-11 Gift Card Detail Record Processing Reject Codes

Reject Code	Reason for Reject
G0 004 - Fatal	Batch Transaction Number Not One Greater Than Previous Transaction
G0 005	Addendum Sequence Number Not Equal To Zero
G0 006	Invalid Transaction Type
G0 007	Invalid Reversal Type
G0 008	Invalid Account Number
G0 009	Invalid Original Date/Time
G0 010	Invalid Transaction Amount
G0 011	Invalid Gift Card Processing Indicator

B.2.9 Reference Information Processing

TABLE B-12 Reference Information Processing Reject Codes

Reject Code	Reason for Reject
DR 001	Invalid Batch Transaction Number
DR 002	Invalid Addendum Sequence Number

B.2.10 Additional Request Information Processing

TABLE B-13 Additional Request Information Processing Reject Codes

Reject Code	Reason for Reject
DA 001	Invalid Batch Transaction Number
DA 002	Invalid Addendum Sequence Number
DA 005	Bad CVV2 Presence Indicator
DA 006	Bad CVV2 Value
DA 007	Transponder Code Invalid
DA 008	Deferred Billing Indicator Invalid
DA 009	Payment on Existing Debt Invalid
DA 010	US Relationship Participant Invalid
DA 011	Invalid Market Specific Data Indicator

TABLE B-13 Additional Request Information Processing Reject Codes

Reject Code	Reason for Reject
DA 012	Invalid CAT Level Indicator
DA 013	First Time Recurring Payment Indicator Invalid
DA 014	Invalid partial authorization indicator
DA 015	Invalid PINless conversion flag indicator
DA 016	Invalid PINless conversion attempt
DA 017	Invalid PINless method attempt
DA 018	Invalid PINless network
DA 019	Invalid POS Environment Indicator
DA 020	Invalid Estimated Authorization Indicator
DA 021	Invalid Subsequent Auth Reason Code
DA 022	Visa Tran ID Not Numeric

B.2.11 Supplemental Authorization Processing

TABLE B-14 Supplemental Authorization Processing Reject Codes

Reject Code	Reason for Reject
D1 001	Invalid Batch Transaction Number
D1 002	Invalid Addendum Sequence Number
D1 003	Invalid Supplemental Authorization Type
D1 004	Transaction Identifier Not Numeric
D1 005	Retrieval Reference Number Not Numeric
D1 006	Reversal Transaction But Retrieval Reference Number Not Present
D1 007	Supplemental Amount Not Numeric

B.2.12 American Express Detail Processing

TABLE B-15 American Express Detail Processing

Reject Code	Reason for Reject
DX 001	Batch Transaction Number Not Numeric

TABLE B-15 American Express Detail Processing

Reject Code	Reason for Reject
DX 002	Batch Transaction Number Not Equal To Batch Transaction Number in D0 Record
DX 003	Addendum Sequence Number Equals Zero
DX 004	Addendum Sequence Number Not One Greater Than Addendum Sequence Number in Previous Record
DX 005	Format Version Not Equal to One
DX006	American Express Batch Header Missing
DX007	American Express Detail Addendum Missing
DX008	American Express Charge Descriptor Invalid
DX009	AX addendum not valid with AP addendum

B.2.13 Amex Purchasing Card Processing

TABLE B-16 Amex Purchasing Card Processing Reject Codes

Reject Code	Reason for Reject
AP 001	Batch Transaction Number Not Numeric
AP 002	Batch Transaction Number Not Equal To Batch Transaction Number in D0 Record
AP 003	Addendum Sequence Number Equals Zero
AP 004	Addendum Sequence Number Not One Greater Than Addendum Sequence Number in Previous Record
AP 005	Account is not American Express
AP 006	Format Record Type not Increasing
AP 007	Format Record Type Invalid
AP 008	American Express Charge Descriptor Invalid
AP 009	AP Addendum Not Valid With AX Addendum
AP 010	AP Addendum Format Record Type Out Of Sequence
AP 011	AP Addenda Format Record Type 2 Missing
AP 101	Invalid Sales Tax Indicator
AP 102	Invalid Sales Tax Amount
AP 103	Invalid Customer Reference Number
AP 104	Invalid Ship-To Zip Code

TABLE B-16 Amex Purchasing Card Processing Reject Codes

Reject Code	Reason for Reject
AP 299	Format Record Type '2 Addenda Missing

B.2.14 Amex Retail Addendum Processing

TABLE B-17 Amex Retail Addendum Processing Reject Codes

Reject Code	Reason for Reject
AR 001	Batch Transaction Number Not Numeric
AR 002	Batch Transaction Number Not Equal To Batch Transaction Number in D0 Record
AR 003	Addendum Sequence Number Equals Zero
AR 004	Addendum Sequence Number Not One Greater Than Addendum Sequence Number in Previous Record
AR 006	AR Record Type 3 Addendum, Not Permitted with 'AX' Addendum
AR 009	Format Record Type Invalid
AR 100	Format Record Type 1 Out Of Sequence
AR 101	Transaction Identifier Invalid
AR 102	Transaction Format Code Invalid
AR 103	Media Code Invalid
AR 104	Currency Code Invalid
AR 111	Card Data Input Capability Code Invalid
AR 112	Cardholder Authentication Code Invalid
AR 113	Card Capture Capability Code Invalid
AR 114	Operating Environment Code Invalid
AR 115	Cardholder Present Code Invalid
AR 116	Card Present Code Invalid
AR 117	Card Data Input Mode Invalid
AR 118	Cardmember Authentication Code Invalid
AR 119	Cardmember Authentication Entity Code Invalid
AR 120	Card Data Output Capability Code Invalid
AR 121	Terminal Output Capability Code Invalid
AR 122	PIN Capture Capability Code Invalid

TABLE B-17 Amex Retail Addendum Processing Reject Codes

Reject Code	Reason for Reject
AR 200	Format Record Type 2 Out Of Sequence
AR 300	Format Record Type 3 Out Of Sequence
AR 301	Retail Item Description Is Blank
AR 302	Retail Item Quantity Invalid
AR 303	Retail Item Amount Invalid
AR 399	Format Record Type 3 Addenda Missing
AR 400	Format Record Type 4 Out Of Sequence
AR 401	Additional Amount Type Invalid
AR 402	Additional Amount Invalid
AR 403	Additional Amount Sign Invalid

B.2.15 Amex Corporate Card Addendum Processing

TABLE B-18 Amex Corporate Card Addendum Processing Reject Codes

Reject Code	Reason for Reject
AC 001	Batch Transaction Number Not Numeric
AC 002	Batch Transaction Number Not Equal To Batch Transaction Number in D0 Record
AC 003	Addendum Sequence Number Equals Zero
AC 004	Addendum Sequence Number Not One Greater Than Addendum Sequence Number in Previous Record
AC 006	AC Addendum Not Permitted with AX Addendum
AC 007	AC Addenda Must Be Preceded by AR Addenda
AC 009	Format Record Type Invalid
AC 100	Format Record Type A Out Of Sequence
AC 103	Total Tax Amount Invalid
AC 200	Format Record Type B Out Of Sequence
AC 201	Charge Description Is Blank
AC 202	Item Quantity Invalid
AC 203	Item Amount Invalid
AC 300	Format Record Type C Out Of Sequence

TABLE B-18 Amex Corporate Card Addendum Processing Reject Codes

Reject Code	Reason for Reject
AC 301	Requestor Name Blank

B.2.16 Facsimile Draft Information Processing

TABLE B-19 Facsimile Draft Information Processing Reject Codes

Reject Code	Reason for Reject
FI 001	Batch Transaction Number Not Numeric
FI 002	Batch Transaction Number Not equal to batch Transaction Number in D0 Record
FI 003	Addendum Sequence Number Equal to Zero
FI 004	Addendum Sequence Number Not One Greater Than Addendum Sequence Number in Previous Record
FI 005	Invalid Expiration Date
FI 006	Transaction Time Invalid
FI 007	Store Number Not Numeric
FI 008	Register Number Not Numeric
FI 009	Salesperson Number Not Numeric
FI 010	Total Merchandise Descriptions Not Numeric
FI 011	Batch Number Not Numeric
FI012	Invalid AVS Response Code

B.2.17 Facsimile Draft Description Processing

TABLE B-20 Facsimile Draft Description Processing Reject Codes

Reject Code	Reason for Reject
FD 001	More Than Five Facsimile Draft Description Addenda Received
FD 002	Batch Transaction Number Not Numeric
FD 003	Batch Transaction Number Not Equal To Batch Transaction Number in D0 Record
FD 004	Addendum Sequence Number Equal to Zero

TABLE B-20 Facsimile Draft Description Processing Reject Codes

Reject Code	Reason for Reject
FD 005	Addendum Sequence Number Not One Greater Than Addendum Sequence Number in Previous Record
FD 006	First Merchandise Amount Not Numeric
FD 007	Second Merchandise Amount Not Numeric

B.2.18 Facsimile Draft Shipping Information Processing

TABLE B-21 Facsimile Draft Shipping Information Processing Reject Codes

Reject Code	Reason for Reject
FS 001	Batch Transaction Number Not Numeric
FS 002	Batch Transaction Number Not Equal to Batch Transaction Number in D0 Record
FS 003	Addendum Sequence Number Equal to Zero
FS 004	Addendum Sequence Number Not One Greater Than Addendum Sequence Number in Previous Record

B.2.19 IIAS Auto-Substantiation Information Processing

TABLE B-22 IIAS Auto-Substantiation Information Processing Reject Codes

Reject Code	Reason for Reject
IA 001	Batch transaction number not numeric
IA 002	Batch transaction number not equal to batch transaction number in D0 record
IA 003	Addendum sequence number equals 0
IA 004	Addendum sequence number not one greater than addendum sequence number in previous record

B.2.20 Transaction Description Processing

TABLE B-23 Transaction Description Processing Rejects Code

Reject Code	Reason for Reject
DD001	Invalid Batch Transaction Number

TABLE B-23 Transaction Description Processing Rejects Code

Reject Code	Reason for Reject
DD002	Invalid Addendum Sequence Number

B.2.21 MasterCard Basic IC Presentment Processing

TABLE B-24 MasterCard Basic IC Presentment Processing Reject Codes

Reject Code	Reason for Reject
MB001	Batch Transaction Number Not Numeric
MB002	Batch Transaction Number Not Equal to Batch Transaction Number in D0 Record
MB003	Addendum Sequence Number Equals 0
MB004	Addendum Sequence Number Not One Greater than Addendum Sequence Number in Previous Record
MB005	Banknet Date Invalid
MB006	Merchant Category Invalid
MB007	Cardholder Activated Terminal Level Invalid
MB008	Invalid CVC2 Result Code
MB009	Invalid Cash Back Amount
MB010	Invalid Track Service Code
MB025	Addendum Not Permitted

B.2.22 MasterCard Additional Info Processing

TABLE B-25 MasterCard Additional Info Processing Reject Codes

Reject Code	Reason for Reject
MC001	Batch Transaction Number Not Numeric
MC002	Batch Transaction Number Not Equal to Batch Transaction Number in D0 Record
MC003	Addendum Sequence Number Equals 0
MC004	Addendum Sequence Number Not One Greater than Addendum Sequence Number in Previous Record
MC012	Original Authorization Amount Invalid

TABLE B-25 MasterCard Additional Info Processing Reject Codes

Reject Code	Reason for Reject
MC013	Total Authorization Amount Invalid
MC014	Original Systems Trace Audit Number Invalid
MC015	Total Auth Amount > Original Auth Amount
MC025	Addendum MC Not Permitted
MC026	Addendum MC Required for Partial Reversals.

B.2.23 MasterCard Purchasing Card Processing

TABLE B-26 MasterCard Purchasing Card Processing Reject Codes

Reject Code	Reason for Reject
MP001	Batch Transaction Number Not Numeric
MP002	Batch Transaction Number Not Equal to Batch Transaction Number in D0 Record
MP003	Addendum Sequence Number Equals 0
MP004	Addendum Sequence Number Not One Greater than Addendum Sequence Number in Previous Record
MP005	Format Record Type Not Increasing
MP006	Format Record Type Invalid
MP100	Format Record Type 1 Out of Sequence
MP101	Invalid Sales Tax Indicator
MP102	Invalid Sales Tax Amount
MP103	Invalid Freight Amount
MP104	Invalid Duty Amount
MP105	Invalid National Tax Indicator
MP106	Invalid National Tax Amount
MP200	Format Record Type 2 Out of Sequence
MP300	Format Record Type 3 Out of Sequence
MP301	Invalid Extended Item Amount
MP302	Invalid Extended Item Amount Sign
MP303	Invalid Extended Item Net/Gross Indicator
MP399	Too many purchasing card addenda

TABLE B-26 MasterCard Purchasing Card Processing Reject Codes

Reject Code	Reason for Reject
MP400	Format Record Type 4 Out of Sequence
MP401	Format Record Type 3 Missing
MP402	Invalid Value Added Tax Rate
MP403	Invalid Value Added Tax Amount
MP404	Invalid Discount Indicator
MP405	Invalid Discount Amount

B.2.24 MasterCard Corporate Addendum Version 7 Processing

TABLE B-27 MasterCard Corporate Addendum Version 7 Processing Reject Codes

Reject Code	Reason for Reject
M7001	Batch Transaction Number Not Numeric
M7002	Batch Transaction Number Not Equal to Batch Transaction Number in D0 Record
M7003	Addendum Sequence Number Equals 0
M7004	Addendum Sequence Number not one greater than the Addendum Sequence Number in Previous Record for the first M7 addendum, or, for subsequent M7 addendum, the Addendum Sequence Number differs from preceding M7 addendum.
M7006	Format Record Type Invalid

B.2.25 Visa Basic CPS Processing

TABLE B-28 Visa Basic CPS Processing Reject Codes

Reject Code	Reason for Reject
VB001	Batch Transaction Number Not Numeric
VB002	Batch Transaction Number Not Equal to Batch Transaction Number in D0 Record
VB003	Addendum Sequence Number Equals 0
VB004	Addendum Sequence Number Not One Greater Than Addendum Sequence Number in Previous Record
VB005	Invalid Authorized Amount

TABLE B-28 Visa Basic CPS Processing Reject Codes

Reject Code	Reason for Reject
VB006	Invalid Cardholder Activated Terminal Indicator
VB007	Invalid Currency Code
VB008	Invalid ACI Indicator
VB009	Invalid AVS Response Code
VB010	Invalid VISA Tran ID
VB011	Invalid Merchant Category Code
VB012	Invalid Total Authorization Amount
VB013	Retrieval Reference Number Invalid
VB014	Invalid Market Specific Data Indicator
VB015	Invalid CVV2 Result Code
VB020	Replacement Amount Greater Than or Equal To The Original Authorization Amount For Partial Reversal
VB025	Addendum Not Permitted
VB026	VB Addendum Required For Partial Reversals
VB027	Original Auth Amount Not Equal to Total Auth Amount

B.2.26 Visa Additional Info Processing

TABLE B-29 Visa Additional Info Processing Reject Codes

Reject Code	Reason for Reject
VC001	Batch Transaction Number Not Numeric
VC002	Batch Transaction Number Not Equal to Batch Transaction Number in D0 Record
VC003	Addendum Sequence Number Equals 0
VC004	Addendum Sequence Number Not One Greater than Addendum Sequence Number in Previous Record
VC005	Card Level Results Code Invalid
VC025	Addendum VC Not Permitted

B.2.27 Visa CPS Direct Marketing Processing

TABLE B-30 Visa CPS Direct Marketing Processing Reject Codes

Reject Code	Reason for Reject
VD001	Batch Transaction Number Not Numeric
VD002	Batch Transaction Number Not Equal to Batch Transaction Number in D0 Record
VD003	Addendum Sequence Number Equals 0
VD004	Addendum Sequence Number Not One Greater than Addendum Sequence Number in Previous Record
VD005	Invalid AVS Response Code
VD006	Invalid Merchant Telephone Number
VD007	Invalid Purchase Identifier Format Code
VD008	Invalid Purchase Type
VD025	Addendum Not Permitted

B.2.28 Visa Purchasing Card Processing

TABLE B-31 Visa Purchasing Card Processing Reject Codes

Reject Code	Reason for Reject
VP001	Batch Transaction Number Not Numeric
VP002	Batch Transaction Number Not Equal to Batch Transaction Number in D0 Record
VP003	Addendum Sequence Number Equals 0
VP004	Addendum Sequence Number Not One Greater than Addendum Sequence Number in Previous Record
VP005	Format Record Type Not Increasing
VP006	Format Record Type Invalid
VP100	Format Record Type 1 Out of Sequence
VP101	Invalid Sales Tax Indicator
VP102	Invalid Sales Tax Amount
VP103	Invalid Customer Code
VP104	Invalid National Tax Indicator
VP105	Invalid National Tax Amount

TABLE B-31 Visa Purchasing Card Processing Reject Codes

Reject Code	Reason for Reject
VP106	Invalid Other Tax Amount
VP200	Format Record Type 2 Out of Sequence
VP201	Invalid Discount Amount
VP202	Invalid Freight/Shipping Amount
VP300	Format Record Type 3 Out of Sequence
VP301	Invalid Duty Amount
VP302	Invalid Order Date
VP303	Invalid VAT/Tax Amount
VP304	Invalid VAT/Tax Rate
VP400	Format Record Type 4 Out of Sequence
VP401	Invalid Unit Cost
VP402	Invalid Quantity
VP499	Too many purchasing card addenda
VP500	Format Record Type 5 Out of Sequence
VP501	Format Record Type 4 Missing
VP502	Invalid Type of Supply
VP503	Invalid VAT Tax Amount
VP504	Invalid VAT Tax Rate
VP505	Invalid Discount/Line Item
VP506	Invalid Line Item Total

B.2.29 Payee Information Addendum #1 Processing

TABLE B-32 Payee Information Addendum #1 Processing Reject Codes

Reject Code	Reason for Reject
B1 001	Invalid Batch Transaction Number
B1 002	Batch Transaction Number Not Incremented
B1 003	Addendum Sequence Number Is Zero
B1 004	Invalid Addendum Sequence Number
B1 005	Invalid Character in Payee Name

TABLE B-32 Payee Information Addendum #1 Processing Reject Codes

Reject Code	Reason for Reject
B1 006	Payee Name Is All Blanks
B1 007	Invalid Character in Payee Phone Number
B1 008	Payee Phone Number Is All Blanks
B1 009	Filler Is Not All Blanks

B.2.30 Payee Information Addendum #2 Processing

TABLE B-33 Payee Information Addendum #2 Processing Reject Codes

Reject Code	Reason for Reject
B2 001	Invalid Batch Transaction Number
B2 002	Batch Transaction Number Not Incremented
B2 003	Addendum Sequence Number Is Zero
B2 004	Invalid Addendum Sequence Number
B2 005	Invalid Character in Payee Account Number
B2 006	Payee Account Number Is All Blanks
B2 007	Filler Is Not All Blanks

B.2.31 Mag Stripe Data Processing

TABLE B-34 Mag Stripe Data Processing Reject Codes

Reject Code	Reason for Reject
T1001	Invalid Batch Transaction Number
T1002	Invalid Addendum Sequence Number
T1003	Invalid Entry Mode for Track Data
T1004	Invalid POS Terminal Capability Code
T1005	Invalid Track Type Code
T1006	Track Data Missing, Entry Mode '90'
T1007	Track Data Not Allowed for this Merchant
T1010	Invalid Track 1 Data Length
T1011	First Byte of Track Data Not 'B'

TABLE B-34 Mag Stripe Data Processing Reject Codes

Reject Code	Reason for Reject
T1012	First Track 1 Field Separator Not Found
T1013	Second Track 1 Field Separator Not Found
T1014	Invalid Track 1 Data After Second Field Separator
T1020	Invalid Track 2 Data Length
T1021	Track 2 Field Separator Bad or Missing
T1022	Track 2 Data Bad
T2001	Invalid Batch Transaction Number
T2002	Invalid Addendum Sequence Number
T2003	T2 Addendum Not Allowed
T2004	Columns 13-15 Must Be Blank

B.2.32 EMV V1 Detail Record Processing

TABLE B-35 EMV V1 Detail Record Processing Reject Codes

Reject Code	Reason for Reject
V1 001	Batch Transaction # Is Not Numeric
V1 002	Batch Transaction # Not Correct
V1 003	Addendum Sequence Number Equals Zero
V1 004	Addendum Sequence Number Not One Greater Than Addendum Sequence Number in Previous Record
V1 005	Invalid Application Cryptogram (Tag 9F26)
V1 006	Invalid Unpredictable Number (Tag 9F37)
V1 007	Invalid Application Transaction Counter (Tag 9F36)
V1 008	Invalid Terminal Verification Results (Tag 95)
V1 009	Invalid Card Sequence Number (Tag 5F34)
V1 010	Invalid Transaction Date (Tag 9A)
V1 011	Invalid Transaction Type (Tag 9C)
V1 012	Invalid Amount, Authorized (Tag 9F02)
V1 013	Invalid Transaction Currency Code (Tag 5F2A)
V1 014	Invalid Reserved Data

TABLE B-35 EMV V1 Detail Record Processing Reject Codes

Reject Code	Reason for Reject
V1 015	Invalid Offline Indicator
V1 016	Invalid Filler
V1 017	Invalid Transaction - Presentment only
V1 100	Missing EMV Detail record

B.2.33 EMV V2 Detail Record Processing

TABLE B-36 EMV V2 Detail Record Processing Reject Codes

Reject Code	Reason for Reject
V2 001	Batch Transaction # Is Not Numeric
V2 002	Batch Transaction # Not Correct
V2 003	Addendum Sequence Number Equals Zero
V2 004	Addendum Sequence Number Not One Greater Than Addendum Sequence Number in Previous Record
V2 005	Invalid Cryptogram Information Data (Tag 9F27)
V2 006	Invalid Issuer Application Data Length
V2 007	Invalid Issuer Application Data (Tag 9F10)
V2 008	Invalid Transaction - Presentment only

B.2.34 EMV V3 Detail Record Processing

TABLE B-37 EMV V3 Detail Record Processing Reject Codes

Reject Code	Reason for Reject
V3 001	Batch Transaction # Is Not Numeric
V3 002	Batch Transaction # Not Correct
V3 003	Addendum Sequence Number Equals Zero
V3 004	Addendum Sequence Number Not One Greater Than Addendum Sequence Number in Previous Record
V3 005	Invalid Application Interchange Profile (Tag 82)
V3 006	Invalid Terminal Capabilities (Tag 9F33)
V3 007	Invalid Form Factor Indicator (Tag 9F6E)

TABLE B-37 EMV V3 Detail Record Processing Reject Codes

Reject Code	Reason for Reject
V3 008	Invalid Issuer Authentication Data (Tag 91)
V3 009	Invalid Terminal Country Code (Tag 9F1A)
V3 010	Invalid Amount, Other (Numeric) (Tag 9F03)
V3 011	Invalid Filler
V3 012	Invalid Transaction - Presentment only

B.2.35 EMV V4 Detail Record Processing

TABLE B-38 EMV V4 Detail Record Processing Reject Codes

Reject Code	Reason for Reject
V4 001	Batch Transaction # Is Not Numeric
V4 002	Batch Transaction # Not Correct
V4 003	Addendum Sequence Number Equals Zero
V4 004	Addendum Sequence Number Not One Greater Than Addendum Sequence Number in Previous Record
V4 005	Invalid Issuer Script Results (Tag 9F5B)
V4 006	Invalid Filler
V4 007	Invalid Transaction - Presentment only

B.2.36 Token Data Processing

TABLE B-39 Token Data Processing

Reject Code	Reason for Reject
TK001	Batch Transaction Number Not Numeric
TK002	Batch Transaction Number Not Equal to Batch Transaction Number in Primary Detail Record
TK003	Addendum Sequence Number Equals 0
TK004	Addendum Sequence Number Not One Greater than Addendum Sequence Number in Previous Record
TK005	Token Field is Blank
TK006	Token ID Field is Blank

TABLE B-39 Token Data Processing

Reject Code	Reason for Reject
TK007	Token Date/Time Field is Not Numeric

B.2.37 Batch Trailer Processing

TABLE B-40 Batch Trailer Processing Reject Codes

Reject Code	Reason for Reject
BT 001 - Fatal	File Header Not Present
BT 002 - Fatal	Batch Header Not Present
BT 003 - Fatal	Batch Number Not Numeric
BT 004 - Fatal	Batch Number in Batch
BT 005 - Fatal	Batch Record Count Incorrect
BT 006 - Fatal	Batch Transaction Count Incorrect
BT 007 - Fatal	Batch Transaction Amount Incorrect
BT 008 - Fatal	Merchant Assessment Fee Invalid
BT 009 - Fatal	Invalid PinLess Debit Record in Batch

B.2.38 File Trailer Processing

TABLE B-41 File Trailer Processing Reject Code

Reject Code	Reason for Reject
FT 001 - Fatal	File Header Not Present
FT 002 - Fatal	Batch Trailer Not Present
FT 003 - Fatal	File Type Incorrect
FT 004 - Fatal	Relative File Number Not Numeric
FT 005 - Fatal	Relative File Number Incorrect
FT 006 - Fatal	Batch Count Incorrect
FT 007 - Fatal	Transaction Count Incorrect
FT 008 - Fatal	Transaction Amount Incorrect
FT 009 - Fatal	File Contains No Transactions

B.2.39 Miscellaneous Error Codes

TABLE B-42 Miscellaneous Error Codes

Reject Code	Reason for Reject
DF 001 - Fatal	Duplicate File Received
DB 001 - Fatal	Duplicate Batch Received
IE 001 - Fatal	Internal Program Error
RW 001 - Fatal	Report File Did Not Open

B.3 Output Processing

This section describes the following output processing reject codes:

- [Initial Processing](#) on page 160
- [File Header Processing](#) on page 160
- [Batch Header Processing](#) on page 161
- [American Express Header Processing](#) on page 161
- [Detail Record Processing](#) on page 161
- [Discover Addendum Record Processing](#) on page 161
- [Batch Trailer Processing](#) on page 161
- [File Trailer Processing](#) on page 162
- [Payee Information Addendum #1 Processing](#) on page 162
- [Payee Information Addendum #2 Processing](#) on page 162

B.3.1 Initial Processing

TABLE B-43 Initial Processing Reject Codes

Reject Code	Reason for Reject
MA 001 - Fatal	Invalid Record Type
EP 001 - Fatal	File Trailer Not Present
OF 001 - Fatal	Input Log File Did Not Open
OF 002 - Fatal	Input OBS File Did Not Open
OF 003 - Fatal	Output Log File Did Not Open
OF 004 - Fatal	Output Log File Did Not Open
OF 005 - Fatal	Output Log File Did Not Open

B.3.2 File Header Processing

TABLE B-44 File Header Processing Reject Code

Reject Code	Reason for Reject
FH 001 - Fatal	More Than One File Header Sent

B.3.3 Batch Header Processing

TABLE B-45 Batch Header Processing Reject Code

Reject Code	Reason for Reject
BH 001 - Fatal	File Header Not Present

B.3.4 American Express Header Processing

TABLE B-46 American Express Header Processing Reject Code

Reject Code	Reason for Reject
BX 001 - Fatal	Batch Header Not Present

B.3.5 Detail Record Processing

TABLE B-47 Detail Record Processing Reject Codes

Reject Code	Reason for Reject
D0 001 - Fatal	Batch Header Not Present
CT 001 - Fatal	Invalid Response Code

B.3.6 Discover Addendum Record Processing

TABLE B-48 Discover Addendum Record Processing Reject Codes

Reject Code	Reason for Reject
DE 001	Maximum Addendum Under 'De' Allowed Exceeded
DE 002	Addendum Number Not 1 Or 2 Or 3
DE 003	Routine Does Not Match Addendum Number

B.3.7 Batch Trailer Processing

TABLE B-49 Batch Trailer Processing Reject Codes

Reject Code	Reason for Reject
BT 001 - Fatal	File Header Not Present

TABLE B-49 Batch Trailer Processing Reject Codes

Reject Code	Reason for Reject
BT 002 - Fatal	Batch Header Not Present

B.3.8 File Trailer Processing

TABLE B-50 File Trailer Processing Reject Codes

Reject Code	Reason for Reject
FT 001 - Fatal	File Header Not Present
FT 002 - Fatal	Batch Trailer Not Present

B.3.9 Payee Information Addendum #1 Processing

TABLE B-51 Payee Information Addendum #1 Processing Reject Codes

Reject Code	Reason for Reject
B1 001	Invalid Batch Transaction Number
B1 002	Batch Transaction Number Not Incremented
B1 003	Addendum Sequence Number Is Zero
B1 004	Invalid Addendum Sequence Number
B1 005	Invalid Character in Payee Name
B1 006	Payee Name Is All Blanks
B1 007	Invalid Character in Payee Phone Number
B1 008	Payee Phone Number Is All Blanks
B1 009	Filler Is Not All Blanks

B.3.10 Payee Information Addendum #2 Processing

TABLE B-52 Payee Information Addendum #2 Processing Reject Codes

Reject Code	Reason for Reject
B2 001	Invalid Batch Transaction Number
B2 002	Batch Transaction Number Not Incremented
B2 003	Addendum Sequence Number Is Zero

TABLE B-52 Payee Information Addendum #2 Processing Reject Codes

Reject Code	Reason for Reject
B2 004	Invalid Addendum Sequence Number
B2 005	Invalid Character in Payee Account Number
B2 006	Payee Account Number Is All Blanks
B2 007	Filler Is Not All Blanks

Amex Additional Amounts

This appendix lists the Amex additional amount values for good/services and taxes.

TABLE C-1 Amex Additional Amounts for Good/Services

Goods/Services	Value	Goods/Services	Value
Bar	019	Additional Miles	062
Bar/Mini Bar	023	Auto Rental	060
Barber/Beauty Salon	028	Cancellation	065
Beverage	017	Charges after checkout	041
Business Center	036	Catering Charges	022
Convenience Chg	050	Convention Fees	037
Delivery	051	Food	016
Discount	053	Food/Beverage	018
Equipment Rental	035	Gift Shop	030
Express Service	040	Health/Fitness	029
Freight/Shipping	055	Internet Service	025
Fuel Charge	061	Insurance Purchased	052
Late Return	063	Laundry/Dry Cleaning	027
Meeting Charge	038	Lodging	020
Misc Charge	042	Movies/Pay-Per-View	026
No Show	039	Pet Fees	033
Order Processing	049	Phone	024
Parking Fee	032	Pro Shop	031
Policy Adjustment	066	Restaurant/Room Service	021

TABLE C-1 Amex Additional Amounts for Good/Services

Goods/Services	Value	Goods/Services	Value
Repairs	064	Reward Program Transaction	047
Surcharge	048	Tip/Gratuity	058
Ticket/Violation	054	Tours	034

TABLE C-2 Amex Additional Amounts for Taxes

Goods/Services	Value
Airport Tax	015
Goods/Services	001
Miscellaneous Tax	046
Room Tax	013
Sales Tax	056
Stamp Duty	067
Value Added Tax	057

Network Response Codes

Based on the merchant option for non-approved transactions, the network codes in [Table D-1](#) return in the Authorization Number field of the R0 or RG record in the response file.

TABLE D-1 Network Response Code

Network Response Code	Description
00	Approved
01	Refer to card issuer
02	Refer to card issuer, special condition
03	Invalid merchant number
04	Pick up card
05	Do not honor
06	Error
07	Pick up card, special condition
08	Honor with identification
10	Partial approval
12	Invalid transaction
13	Invalid amount
14	Invalid account number
15	No such issuer
17	Customer cancelled
19	Reenter transaction
21	Unable to back out transaction
30	Format error

TABLE D-1 Network Response Code

Network Response Code	Description
31	Merchant not in file (Discover)
32	Partial reversal (Mastercard)
39	No Credit Account
41	Pick up card (lost)
43	Pick up card (stolen card)
51	Insufficient funds
52	No checking account
53	No savings account
54	Expired card
55	Incorrect PIN
56	Cardholder not on file (Discover)
57	Transaction not permitted to cardholder
58	Transaction not allowed at terminal
59	Referral (Discover)
61	Exceeds withdrawal amount limit
62	Restricted card
63	Security violation (AMEX CID invalid)
65	Activity count limit
68	Response received late
69	Bad Close (Gift Card)
70	Card Already Active (Gift Card)
71	Card Not Active (Gift Card)
72	Card Already Closed (Gift Card)
73	Over Max Balance (Gift Card)
74	Invalid Activate (Gift Card)
75	Allowable number of PIN tries exceeded
78	Invalid account
80	Invalid date
82	Incorrect CVV
83	Unable to verify PIN

TABLE D-1 Network Response Code

Network Response Code	Description
85	No reason to decline (account verification)
87	Approve purchase amount, not cash back amount
91	Issuer unavailable
94	Duplicate transaction detected
96	System malfunction
N7	Decline for CVV2
R0	Stop payment order on a specific recurring payment - one time
R1	Stop payment order on all instances of a specific recurring payment
R3	Stop payment order on all instances of all recurring payments - account closed

Gift Card Totals Calculations

Table E-1 lists how Worldpay calculates gift card totals based on transaction type and reversal type.

TABLE E-1 Gift Card Totals Calculations

Transaction Type	Reversal Type	Increase/Decrease
A	A	Subtract From Total
F	A	Subtract From Total
L	A	Subtract From Total
B	A	Add To Total
C	A	Add To Total
P	A	Add To Total
U	A	Add To Total
T	A	Add To Total
A	R or F	Add To Total
F	R or F	Add To Total
L	R or F	Add To Total
B	R or F	Subtract From Total
C	R or F	Subtract From Total
P	R or F	Subtract From Total
U	R or F	Subtract From Total
T	R or F	Subtract From Total