

TRANSACTION FORMAT DEFINITIONS

Authorization:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0100	0110	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	C01		For manual card number entry, when allowed (see field 14)
03	Processing Code	n 6	00A00X	00A00X	A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6		O	
13	Date, Local Tran.	n 4		O	
14	Date, Expiration	n 4	C01		For manual entry of Expiry Date (see field 02)
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond. Code	n 2	00		
35	Track 2 Data	z ..37	C02		
37	Retr. Ref. Num.	an 12		M	
38	Auth. ID. Resp	an 6		O	
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc.ID	ans 15	M		From card acceptor ID field in card definition table entry
52	PIN Data	b 64	O		If PINS are selected in this card definition table entry
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Balance Inquiry:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0100	0110	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	C01		For manual card number entry, when allowed
03	Processing Code	n 6	31A00X	31A00X	A-account selection, X-extra control bits
04	Amount, Trans.	n 12		M	Available Balance
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6		M	
13	Date, Local Tran.	n 4		M	
14	Date, Expiration	n 4	C01		For manual entry of Expiry Date, when allowed
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond. Code	n 2	00		
35	Track 2 Data	z ..37	C02		
37	Retr. Ref. Num.	an 12		M	
38	Auth. ID. Resp	an 6		O	
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc.ID	ans 15	M		From card acceptor ID field in card definition table entry
52	PIN Data	b 64	O		If PINS are selected in this card definition table entry
54	Additional Amts	an ...120		O	Daily limit balance
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Card Verification:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0100	0110	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	C01		For manual card number entry, when allowed
03	Processing Code	n 6	38A00X	38A00X	A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		Amount may be \$0.00
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6		M	
13	Date, Local Tran.	n 4		M	
14	Date, Expiration	n 4	C01		For manual entry of Expiry Date, when allowed
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond. Code	n 2	00		
35	Track 2 Data	z ..37	C02		
37	Retr. Ref. Num.	an 12		M	
38	Auth. ID. Resp	an 6		O	
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc.ID	ans 15	M		From card acceptor ID field in card definition table entry
52	PIN Data	b 64	O		If PINS are selected in this card definition table entry
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Sale/Debit:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0200	0210	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	C01		For manual card number entry, when allowed
03	Processing Code	n 6	00A00X	00A00X	A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6		M	
13	Date, Local Tran.	n 4		M	
14	Date, Expiration	n 4	C01		For manual entry of Expiry Date, when allowed
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond. Code	n 2	00		
35	Track 2 Data	z ..37	C02		
37	Retr. Ref. Num.	an 12		M	
38	Auth. ID, Resp	an 6		O	
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
52	PIN Data	b 64	O		If PINS are selected in this card definition table entry
54	Additional Amts	an ...120	O		Contains TIP amount - information purposes only
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Void – Sale:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0200	0210	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	02A00X	02A00X	Void of debit transaction A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		Amount of original transaction
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6		M	
13	Date, Local Tran.	n 4		M	
14	Date, Expiration	n 4	O		If available from original transaction entry
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond. Code	n 2	00		
37	Retr. Ref. Num.	an 12	M	M	Request RRN is from original response Response RRN updates RRN for transaction in terminal batch
38	Auth. ID. Resp	an 6		O	
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
52	PIN Data	b 64	O		If PINS are selected in this card definition table entry
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Refund:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0200	0210	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	C01		For manual card number entry, when allowed
03	Processing Code	n 6	20A00X	20A00X	A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6		M	
13	Date, Local Tran.	n 4		M	
14	Date, Expiration	n 4	C01		For manual entry of Expiry Date, when allowed
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	00		
35	Track 2 Data	z ..37	C02		
37	Retr. Ref. Num.	an 12		M	
38	Auth. ID. Resp	an 6		O	
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
52	PIN Data	b 64	O		If PINS are selected in this card definition table entry
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Void – Refund:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0200	0210	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	22A00X	22A00X	Void of credit transaction A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		Amount of original transaction
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6		M	
13	Date, Local Tran.	n 4		M	
14	Date, Expiration	n 4	O		If available from original transaction entry
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	00		
37	Retr. Ref. Num.	an 12	M	M	Request RRN is from original response Response RRN updates RRN for transaction in terminal batch
38	Auth. ID. Resp	an 6		O	
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
52	PIN Data	b 64	O		If PINS are selected in this card definition table entry
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Cash:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0200	0210	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	C01		For manual card number entry, when allowed
03	Processing Code	n 6	01A00X	01A00X	A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6		M	
13	Date, Local Tran.	n 4		M	
14	Date, Expiration	n 4	C01		For manual entry of Expiry Date, when allowed
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond. Code	n 2	00		
35	Track 2 Data	z ..37	C02		
37	Retr. Ref. Num.	an 12		M	
38	Auth. ID. Resp	an 6		O	
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc.ID	ans 15	M		From card acceptor ID field in card definition table entry
52	PIN Data	b 64	O		If PINS are selected in this card definition table entry
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Void – Cash:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0200	0210	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	02A00X	02A00X	Void of debit transaction A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		Amount of original transaction
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6		M	
13	Date, Local Tran.	n 4		M	
14	Date, Expiration	n 4	O		If available from original transaction entry
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond. Code	n 2	00		
37	Retr. Ref. Num.	an 12	M	M	Request RRN is from original response Response RRN updates RRN for transaction in terminal batch
38	Auth. ID. Resp	an 6		O	
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc.ID	ans 15	M		From card acceptor ID field in card definition table entry
52	PIN Data	b 64	O		If PINS are selected in this card definition table entry
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Offline Sale

It is important that the bit map for the 0230 response is exactly as specified, or the terminal will not process the response.

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0220	0230	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	00A00X	00A00X	A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6	M		Time original transaction was approved HHMMSS
13	Date, Local Tran.	n 4	M		Date original transaction was approved MMDD
14	Date, Expiration	n 4	O		If available from original transaction entry YYMM
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	00		
37	Retr. Ref. Num.	an 12		M	
38	Auth. ID. Resp	an 6	M		
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
54	Additional Amts	an ...120			Contains TIP amount - Information purposes only
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Void - Offline Sale:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0220	0230	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	00A00X	00A00X	A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		This amount is \$0.00
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6	M		
13	Date, Local Tran.	n 4	M		
14	Date, Expiration	n 4	O		If available from original transaction entry
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	00		
37	Retr. Ref. Num.	an 12		M	
38	Auth. ID. Resp	an 6	M		
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
60	Original amount	ans ...999	M		Contains original amount of transaction after adjustment If the transaction has been adjusted earlier, and the adjust has been sent to the host, this amount will be the amount prior to this adjustment.
61	Product Codes	ans ...999	O		If product codes are selected for this card defin. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defin. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Void - Upload - Offline Sale:

An 'UPLOAD' means an offline-type transaction is trickle-feed to the host after an on-line transaction is approved.

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0220	0230	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	02A00X	02A00X	Adjust of debit transaction A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		This amount is \$0.00
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6	M		
13	Date, Local Tran.	n 4	M		
14	Date, Expiration	n 4	O		If available from original transaction entry
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	00		
37	Retr. Ref. Num.	an 12	M	M	Request RRN is from original response Response RRN updates RRN for transaction in terminal batch
38	Auth. ID. Resp	an 6	M		
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
60	Original amount	ans ...999	M		Contains original amount of transaction If the transaction has been adjusted earlier, and the adjust has been sent to the host, this amount will be the amount prior to this adjustment.
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Sale - Below Floor Limit:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0220	0230	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	00A00X	00A00X	A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6	M		
13	Date, Local Tran.	n 4	M		
14	Date, Expiration	n 4	O		If available from original transaction entry
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	06		
37	Retr. Ref. Num.	an 12		M	
38	Auth. ID. Resp	an 6	M		
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
54	Additional Amts	an ...120			Contains TIP amount - Information purposes only
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Void - Sale Below Floor Limit:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0220	0230	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	00A00X	00A00X	A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		This amount is \$0.00
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6	M		Time original transaction was approved HHMMSS
13	Date, Local Tran.	n 4	M		Date original transaction was approved MMDD
14	Date, Expiration	n 4	O		If available from original transaction entry YYMM
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	06		
37	Retr. Ref. Num.	an 12	M	M	Request RRN is from original response Response RRN updates RRN for transaction in terminal batch
38	Auth. ID. Resp	an 6	M		
39	Response Code	an 2		M	Response code from original transaction
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
60	Original amount	ans ...999	M		Contains original amount of transaction after adjustment
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Void - Upload - Sale Below Floor Limit:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0220	0230	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	02A00X	02A00X	Adjust of debit transaction A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		This amount is \$0.00
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6	M		
13	Date, Local Tran.	n 4	M		
14	Date, Expiration	n 4	O		If available from original transaction entry
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	06		
37	Retr. Ref. Num.	an 12	M	M	Request RRN is from original response Response RRN updates RRN for transaction in terminal batch
38	Auth. ID. Resp	an 6	M		
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
60	Original amount	ans ...999	M		Contains original amount of transaction If the transaction has been adjusted earlier, and the adjust has been sent to host, this amount will be the amount prior to this adjustment.
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Sales Completion

The Sales Completion transaction is used:

- To complete a Pre-authorization transaction when the exact amount is known.
- Following a voice referral, and subsequent voice approval.

It is important that the bit map for the 0230 response is exactly as specified, or the terminal will not process the response.

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0220	0230	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	00A00X	00A00X	A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6	M		Time original transaction was approved HHMMSS
13	Date, Local Tran.	n 4	M		Date original transaction was approved MMDD
14	Date, Expiration	n 4	O		If available from original transaction entry YYYYMM
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond. Code	n 2	06		
37	Retr. Ref. Num.	an 12	M	M	Request RRN is from original response Response RRN updates RRN for transaction in terminal batch
38	Auth. ID. Resp	an 6	M		
39	Response Code	an 2		M	Response code from original transaction
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
54	Additional Amts	an ...120	O		Contains TIP amount - Information purposes only
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Void - Sales Completion:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0220	0230	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	00A00X	00A00X	A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		This amount is \$0.00
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6	M		Time original transaction was approved HHMMSS
13	Date, Local Tran.	n 4	M		Date original transaction was approved MMDD
14	Date, Expiration	n 4	O		If available from original transaction entry YYMM
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	06		
37	Retr. Ref. Num.	an 12	M	M	Request RRN is from original response Response RRN updates RRN for transaction in terminal batch
38	Auth. ID. Resp	an 6	M		
39	Response Code	an 2		M	Response code from original transaction
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
60	Original amount	ans ...999	M		Contains original amount of transaction after adjustment
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Void - Upload - Sales Completion:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0220	0230	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	02A00X	02A00X	Adjust of debit transaction A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		This amount is \$0.00
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6	M		
13	Date, Local Tran.	n 4	M		
14	Date, Expiration	n 4	O		If available from original transaction entry
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	06		
37	Retr. Ref. Num.	an 12	M	M	Request RRN is from original response Response RRN updates RRN for transaction in terminal batch
38	Auth. ID, Resp	an 6	M		
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
60	Original amount	ans ...999	M		Contains original amount of transaction If the transaction has been adjusted earlier, and the adjust has been sent to the host, this amount will be the amount prior to this adjustment.
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Adjust – Sale:

The Adjust transaction is used to notify the host that there has been a change to the amount of a previous transaction. An adjustment to \$0.00 implies a void transaction.

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0220	0230	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	02A00X	02A00X	Adjust of debit transaction A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		New amount of transaction
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6	M		
13	Date, Local Tran.	n 4	M		
14	Date, Expiration	n 4	O		If available from original transaction entry
22	POS Ent Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	00		
37	Retr. Ref. Num.	an 12	M	M	Request RRN is from original response Response RRN updates RRN for transaction in terminal batch
38	Auth. ID, Resp	an 6	M		
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
54	Additional Amts	an ...120	O		Contains TIP amount - Information purposes only
60	Original amount	ans ...999	M		Contains original amount of transaction If the transaction has been adjusted earlier, and the adjust has been sent to the host, this amount will be the amount prior to this adjustment.
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Void - Adjust – Sale:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0200	0210	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	02A00X	02A00X	Void of debit transaction A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		Amount of original transaction before adjustment
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6		M	
13	Date, Local Tran.	n 4		M	
14	Date, Expiration	n 4	O		If available from original transaction entry
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	00		
37	Retr. Ref. Num.	an 12	M	M	Request RRN is from original response Response RRN updates RRN for transaction in terminal batch
38	Auth. ID. Resp	an 6		O	
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
52	PIN Data	b 64	O		If PINS are selected in this card definition table entry
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Void - Upload - Adjust – Sale:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0200	0210	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	02A00X	02A00X	Void of debit transaction A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		Amount of original transaction after adjustment
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6		M	
13	Date, Local Tran.	n 4		M	
14	Date, Expiration	n 4	O		If available from original transaction entry
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	00		
37	Retr. Ref. Num.	an 12	M	M	Request RRN is from original response Response RRN updates RRN for transaction in terminal batch
38	Auth. ID. Resp	an 6		O	
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
52	PIN Data	b 64	O		If PINS are selected in this card definition table entry
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Adjust - Upload - Adjust – Sale:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0220	0230	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	02A00X	02A00X	Adjust of debit transaction A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		New amount of transaction after 2nd adjustment
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6	M		
13	Date, Local Tran.	n 4	M		
14	Date, Expiration	n 4	O		If available from original transaction entry
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	00		
37	Retr. Ref. Num.	an 12	M	M	Request RRN is from original response Response RRN updates RRN for transaction in terminal batch
38	Auth. ID. Resp	an 6	M		
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
54	Additional Amts	an ...120	O		Contains TIP amount - Information purposes only
60	Original amount	ans ...999	M		Contains original amount of transaction after 1st adjustment If the transaction has been adjusted earlier, and the adjust has been sent to the host, this amount will be the amount prior to this adjustment.
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	If Additional data is available
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Void - Adjust - Upload - Adjust – Sale:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0200	0210	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	02A00X	02A00X	Void of debit transaction A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		Amount of original transaction after 1st adjustment
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6		M	
13	Date, Local Tran.	n 4		M	
14	Date, Expiration	n 4	O		If available from original transaction entry
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	00		
37	Retr. Ref. Num.	an 12	M	M	Request RRN is from original response Response RRN updates RRN for transaction in terminal batch
38	Auth. ID. Resp	an 6		O	
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
52	PIN Data	b 64	O		If PINS are selected in this card definition table entry
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	If Additional data is available
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Adjust - Offline Sale:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0220	0230	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	00A00X	00A00X	A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		New amount of transaction
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6	M		Time original transaction was approved HHMMSS
13	Date, Local Tran.	n 4	M		Date original transaction was approved MMDD
14	Date, Expiration	n 4	O		If available from original transaction entry YYYY
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	00		
37	Retr. Ref. Num.	an 12		M	
38	Auth. ID. Resp	an 6	M		
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
54	Additional Amts	an ...120	O		Contains TIP amount - Information purposes only
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Void - Adjust - Offline Sale:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0220	0230	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	00A00X	00A00X	A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		This amount is \$0.00
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6	M		
13	Date, Local Tran.	n 4	M		
14	Date, Expiration	n 4	O		If available from original transaction entry
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	00		
37	Retr. Ref. Num.	an 12		M	
38	Auth. ID. Resp	an 6	M		
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
60	Original amount	ans ...999	M		Contains original amount of transaction after adjustment. If the transaction has been adjusted earlier, and the adjust has been sent to the host, this amount will be the amount prior to this adjustment.
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Void - Upload - Adjust - Offline Sale:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0220	0230	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	02A00X	02A00X	Adjust of debit transaction A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		This amount is \$0.00
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6	M		
13	Date, Local Tran.	n 4	M		
14	Date, Expiration	n 4	O		If available from original transaction entry
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	00		
37	Retr. Ref. Num.	an 12	M	M	Request RRN is from original response Response RRN updates RRN for transaction in terminal batch
38	Auth. ID. Resp	an 6	M		
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
60	Original amount	ans ...999	M		Contains original amount of transaction after adjustment. If the transaction has been adjusted earlier, and the adjust has been sent to the host, this amount will be the amount prior to this adjustment.
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Adjust - Upload - Offline Sale:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0220	0230	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	02A00X	02A00X	Adjust of debit transaction A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		New amount of transaction
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6	M		
13	Date, Local Tran.	n 4	M		
14	Date, Expiration	n 4	O		If available from original transaction entry
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	00		
37	Retr. Ref. Num.	an 12	M	M	Request RRN is from original response Response RRN updates RRN for transaction in terminal batch
38	Auth. ID. Resp	an 6	M		
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
54	Additional Amts	an ...120	O		Contains TIP amount - Information purposes only
60	Original amount	ans ...999	M		Contains original amount of transaction If the transaction has been adjusted earlier, and the adjust has been sent to the host, this amount will be the amount prior to this adjustment.
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Void - Adjust - Upload - Offline Sale:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0220	0230	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	02A00X	02A00X	Adjust of debit transaction A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		This amount is \$0.00
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6	M		
13	Date, Local Tran.	n 4	M		
14	Date, Expiration	n 4	O		If available from original transaction entry
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	00		
37	Retr. Ref. Num.	an 12	M	M	Request RRN is from original response Response RRN updates RRN for transaction in terminal batch
38	Auth. ID. Resp	an 6	M		
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
54	Additional Amts	an ...120	O		Contains TIP amount - Information purposes only
60	Original amount	ans ...999	M		Contains original amount of transaction before adjustment. If the transaction has been adjusted earlier, and the adjust has been sent to the host, this amount will be the amount prior to this adjustment.
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Adjust - Sale Below Floor Limit:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0220	0230	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	00A00X	00A00X	A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		New amount of transaction
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6	M		
13	Date, Local Tran.	n 4	M		
14	Date, Expiration	n 4	O		If available from original transaction entry
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	06		
37	Retr. Ref. Num.	an 12		M	
38	Auth. ID. Resp	an 6	M		
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
54	Additional Amts	an ...120	O		Contains TIP amount - Information purposes only
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Void - Adjust - Sale Below Floor Limit:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0220	0230	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	00A00X	00A00X	A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		This amount is \$0.00
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6	M		
13	Date, Local Tran.	n 4	M		
14	Date, Expiration	n 4	O		If available from original transaction entry
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	06		
37	Retr. Ref. Num.	an 12		M	
38	Auth. ID, Resp	an 6	M		
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
60	Original amount	ans ...999	M		Contains original amount of transaction after adjustment
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Adjust - Upload - Sale Below Floor Limit:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0220	0230	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	02A00X	02A00X	Adjust of debit transaction A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		New amount of transaction
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6	M		
13	Date, Local Tran.	n 4	M		
14	Date, Expiration	n 4	O		If available from original transaction entry
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	06		
37	Retr. Ref. Num.	an 12	M	M	Request RRN is from original response Response RRN updates RRN for transaction in terminal batch
38	Auth. ID. Resp	an 6	M		
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
54	Additional Amts	an ...120	O		Contains TIP amount - Information purposes only
60	Original amount	ans ...999	M		Contains original amount of transaction If the transaction has been adjusted earlier, and the adjust has been sent to host, this amount will be the amount prior to this adjustment.
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Void - Adjust - Upload - Sale Below Floor Limit:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0220	0230	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	02A00X	02A00X	Adjust of debit transaction A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		This amount is \$0.00
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6	M		
13	Date, Local Tran.	n 4	M		
14	Date, Expiration	n 4	O		If available from original transaction entry
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	06		
37	Retr. Ref. Num.	an 12	M	M	Request RRN is from original response Response RRN updates RRN for transaction in terminal batch
38	Auth. ID, Resp	an 6	M		
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
60	Original amount	ans ...999	M		Contains original amount of transaction If the transaction has been adjusted earlier, and the adjust has been sent to host, this amount will be the amount prior to this adjustment.
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Adjust - Sales Completion:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0220	0230	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	00A00X	00A00X	A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		New amount of transaction
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6	M		Time original transaction was approved HHMMSS
13	Date, Local Tran.	n 4	M		Date original transaction was approved MMDD
14	Date, Expiration	n 4	O		If available from original transaction entry YYMM
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	06		
37	Retr. Ref. Num.	an 12	M	M	Request RRN is from original response Response RRN updates RRN for transaction in terminal batch
38	Auth. ID. Resp	an 6	M		
39	Response Code	an 2		M	Response code from original transaction
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
54	Additional Amts	an ...120	O		Contains TIP amount - Information purposes only
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Void - Adjust - Sales Completion:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0220	0230	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	00A00X	00A00X	A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		This amount is \$0.00
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6	M		Time original transaction was approved HHMMSS
13	Date, Local Tran.	n 4	M		Date original transaction was approved MMDD
14	Date, Expiration	n 4	O		If available from original transaction entry YYYY
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	06		
37	Retr. Ref. Num.	an 12	M	M	Request RRN is from original response Response RRN updates RRN for transaction in terminal batch
38	Auth. ID. Resp	an 6	M		
39	Response Code	an 2		M	Response code from original transaction
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
60	Original amount	ans ...999	M		Contains original amount of transaction after adjustment
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Void - Upload - Adjust - Sales Completion:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0220	0230	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	02A00X	02A00X	Adjust of debit transaction A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		This amount is \$0.00
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6	M		
13	Date, Local Tran.	n 4	M		
14	Date, Expiration	n 4	O		If available from original transaction entry
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	06		
37	Retr. Ref. Num.	an 12	M	M	Request RRN is from original response Response RRN updates RRN for transaction in terminal batch
38	Auth. ID. Resp	an 6	M		
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
60	Original amount	ans ...999	M		Contains original amount of transaction If the transaction has been adjusted earlier, and the adjust has been sent to the host, this amount will be the amount prior to this adjustment.
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Adjust - Upload - Sales Completion:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0220	0230	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	02A00X	02A00X	Adjust of debit transaction A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		New amount of transaction
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6	M		
13	Date, Local Tran.	n 4	M		
14	Date, Expiration	n 4	O		If available from original transaction entry
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	06		
37	Retr. Ref. Num.	an 12	M	M	Request RRN is from original response Response RRN updates RRN for transaction in terminal batch
38	Auth. ID. Resp	an 6	M		
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
54	Additional Amts	an ...120	O		Contains TIP amount - Information purposes only
60	Original amount	ans ...999	M		Contains original amount of transaction If the transaction has been adjusted earlier, and the adjust has been sent to the host, this amount will be the amount prior to this adjustment.
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Void - Adjust - Upload - Sales Completion:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0220	0230	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	02A00X	02A00X	Adjust of debit transaction A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		This amount is \$0.00
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6	M		
13	Date, Local Tran.	n 4	M		
14	Date, Expiration	n 4	O		If available from original transaction entry
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	06		
37	Retr. Ref. Num.	an 12	M	M	Request RRN is from original response Response RRN updates RRN for transaction in terminal batch
38	Auth. ID. Resp	an 6	M		
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
60	Original amount	ans ...999	M		Contains original amount of transaction If the transaction has been adjusted earlier, and the adjust has been sent to the host, this amount will be the amount prior to this adjustment.
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Adjust – Refund:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0220	0230	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	22A00X	22A00X	Adjust of credit transaction A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		New amount of transaction
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6	M		
13	Date, Local Tran.	n 4	M		
14	Date, Expiration	n 4	O		If available from original transaction entry
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	00		
37	Retr. Ref. Num.	an 12	M	M	Request RRN is from original response Response RRN updates RRN for transaction in terminal batch
38	Auth. ID. Resp	an 6	M		
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
60	Original amount	ans ...999	M		Contains original amount of transaction If the transaction has been adjusted earlier, and the adjust has been sent to the host, this amount will be the amount prior to this adjustment.
61	Product Codes	ans ...999	O		If product codes are selected for this card defin. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defin. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Void - Adjust – Refund:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0200	0210	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	22A00X	22A00X	Void of credit transaction A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		Amount of original transaction before adjustment
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6		M	
13	Date, Local Tran.	n 4		M	
14	Date, Expiration	n 4	O		If available from original transaction entry
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	00		
37	Retr. Ref. Num.	an 12	M	M	Request RRN is from original response Response RRN updates RRN for transaction in terminal batch
38	Auth. ID. Resp	an 6		O	
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
52	PIN Data	b 64	O		If PINS are selected in this card definition table entry
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Void - Upload - Adjust – Refund:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0200	0210	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		
03	Processing Code	n 6	22A00X	22A00X	Void of credit transaction A-account selection, X-extra control bits
04	Amount, Trans.	n 12	M		Amount of original transaction after adjustment
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6		M	
13	Date, Local Tran.	n 4		M	
14	Date, Expiration	n 4	O		If available from original transaction entry
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	00		
37	Retr. Ref. Num.	an 12	M	M	Request RRN is from original response Response RRN updates RRN for transaction in terminal batch
38	Auth. ID, Resp	an 6		O	
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
52	PIN Data	b 64	O		If PINS are selected in this card definition table entry
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Reversal

The Reversal message is sent if the terminal sent a transaction request into the network, and did not receive a valid response before the transaction time-out period expired.

The reversal is sent persistently until a valid response to the reversal is received from the host.

Reversals will only be sent for on-line financial transaction messages.

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0400	0410	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	C01		For manual card number entry, when allowed
03	Processing Code	n 6	M	M	Same as for the transaction being reversed
04	Amount, Trans.	n 12	M		
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6		M	
13	Date, Local Tran.	n 4		M	
14	Date, Expiration	n 4	C01		For manual entry of Expiry Date, when allowed
22	POS Entry Mode	n 3	C03		
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	M		Same as for the transaction being reversed
32	Acquir. Inst. ID	n ..11			
35	Track 2 Data	z ..37	C02		
37	Retr. Ref. Num.	an 12		M	
38	Auth. ID. Resp	an 6		O	
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
52	PIN Data	b 64	O		If PINS are selected in this card definition table entry
54	Additional Amts	an ...120			Same as for transaction being reversed
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Test Transaction:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0800	0810	
	Bit Map	b 64	M	M	
03	Processing Code	n 6	99000X	99000X	
12	Time, Local Tran.	n 6		M	
13	Date, Local Tran.	n 4		M	
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
41	Terminal ID	ans 8	M	M	
42	Card Acc. ID	ans 15	O		From card acceptor ID field in card definition table entry

Initialization - T7:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0800	0810	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19			
03	Processing Code	n 6	93000X	93000X	
04	Amount, Trans.	n 12			
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6			
13	Date, Local Tran.	n 4			
14	Date, Expiration	n 4			
22	POS Entry Mode	n 3			
24	Network Int'l ID	n 3	M	M	
25	POS Cond.Code	n 2			
35	Track 2 Data	z ..37			
37	Retr. Ref. Num.	an 12			
38	Auth. ID. Resp	an 6			
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15			
43	Card Acq. Name	ans 40			
52	PIN Data	b 64			
54	Additional Amts	an ...120			
60	Initialization Table	ans ...999		O	
61	Private Use	ans ...999			
62	Private Use	ans ...999			
63	Private Use	ans ...999			
64	MSG. Auth. Code	b 64			

Logon:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0800	0810	
	Bit Map	b 64	M	M	
03	Processing Code	n 6	92000X	92000X	
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6		M	
13	Date, Local Tran.	n 4		M	
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
62	Logon Data	ans ...999		O	See private field definition for details

Settlement:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0500	0510	
	Bit Map	b 64	M	M	
03	Processing Code	n 6	92000X 96000X	92000X 96000X	For initial settlement request After batch upload, if requested by host in response to initial settlement request
11	Systems Trace #	n 6	M	M	
12	Time, Local Tran.	n 6		M	
13	Date, Local Tran.	n 4		M	
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
37	Retr. Ref. Num.	an 12		M	
39	Response Code	an 2		M	
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
60	Batch Number	ans ...6	M		Batch number of batch being settled
62	Batch Totals	ans ...90	M		See private use field definitions
63	Response Text	ans ...40		O	May contain up to 2 lines of 20 characters of text for display and/or print
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

Batch Upload:

Bit	Field Name	Attribute	Req.	Rsp.	Comments
	Message Type ID	n 4	0320	0330	
	Bit Map	b 64	M	M	
02	Primary Acc. Num	n ..19	M		From original transaction entry
03	Processing Code	n 6	M	M	Same as original transaction If last digit is 1, there are more to follow If last digit is 0, this is the last transaction
04	Amount, Trans.	n 12	M		From original transaction
11	Systems Trace #	n 6	M	M	For trace # of original transaction , see field 60
12	Time, Local Tran.	n 6	M	M	
13	Date, Local Tran.	n 4	M	M	
14	Date, Expiration	n 4	O		If available from original transaction
22	POS Entry Mode	n 3	C03		From original transaction
24	Network Int'l ID	n 3	M	M	From NII field entry in card definition table entry
25	POS Cond.Code	n 2	M		From original transaction
37	Retr. Ref. Num.	an 12	M	M	From original transaction
38	Auth. ID. Resp	an 6	O		If available from original transaction
39	Response Code	an 2	M	M	From original transaction
41	Terminal ID	ans 8	M	M	
42	Card Acc ID	ans 15	M		From card acceptor ID field in card definition table entry
54	Additional Amts	an ...120	O		Contains TIP or CASH component of amount. Information only
60	Original Data	ans ...999	O		Message type, Systems Trace No from original transaction
61	Product Codes	ans ...999	O		If product codes are selected for this card defn. table
62	Invoice/ECR Ref.	ans ...999	O		If Invoice/ECR Ref # is selected for this card defn. table
63	Additional Data	ans ...999	O	O	Request : Generic input data Response : Host response text
64	MSG. Auth. Code	b 64	O	O	If MACs are selected in this card definition table entry

RESPONSE CODE TEXT:

The following table lists the response codes that may be sent to the terminal by the host in response to a request. Also listed is the text displayed by the terminal, and the ISO definition of the response code.

rsp cod	Terminal Display Text	Descriptions
00	APPROVAL XXXXXX	Approved
01	PLEASE CALL	Refer to card issuer
02	REFERRAL	Refer to card Issuer's special conditions
03	ERROR-CALL HELP-SN	Invalid merchant
04	PICKUP CARD	Pick-up
05	DO NOT HONOUR	Do not honour
12	ERR-CALL HLEP-TR	Invalid transaction
13	ERR-CALL HELP-AM	Invalid amount
14	ERR-CALL HELP-RE	Invalid card number
19	RE-ENTER TRANSACTION	Re-enter transaction
21	NO TRANSACTIONS	No Transactions
25	ERR-CALL HELP-NT	Unable to locate record on file
30	ERR-CALL HELP-FE	Format error
31	CALL HELP - NS	Bank not supported by switch
41	PLEASE CALL - LC	Lost card
43	PLEASE CALL - CC	Stolen card, pick up
51	DECLINED	Not sufficient funds
52	NO CHEQUE ACC	No chequing account
53	NO SAVINGS ACC	No savings account
54	EXPIRED CARD	Expired card
55	INCORRECT PIN	Incorrect PIN
56	NO CARD RECORD	No card record
58	INVALID TRANSACTION	Transaction not permitted to terminal
61	EXCEEDS LIMIT	Exceeds withdrawal amount limit
63	SECURITY VIOLATION	Security violation
75	PIN TRIES EXCEED	Allowable number of PIN tries exceeded
76	INVALID DESCRIPTOR	Invalid product code
77	RECONCILE ERROR	Reconcile error (or host text if sent)
78	TRANS. NOT FOUND	Trans. number not found
79	BATCH ALREADY OPEN	Batch already open
80	BAD BATCH NUMBER	Batch number not found
85	BATCH NOT FOUND	Batch not found
89	BAD TERMINAL ID	Bad Terminal ID
91	ERR-CALL HELP-NA	Issuer or switch inoperative
94	ERR-CALL HELP-SQ	Duplicate transmission
95	BATCH TRANSFER, WAIT	Reconcile error. Batch upload started
96	ERR-CALL HELP-SE	System malfunction
Locally Generated Error Messages		
LC	PLEASE TRY AGAIN -LC	Lost carrier
CE	PLEASE TRY AGAIN -CE	Communications error
ID	CALL HELP - ID	Invalid downline load
IA	CALL HELP - IA	Invalid amount
IR	CALL HELP IR	Invalid message type
IS	CALL HELP - IS	Invalid host sequence number
IM	CALL HELP - IM	Invalid MAC
TO	PLEASE TRY AGAIN -TO	No reply timeout
ND	PLEASE TRY AGAIN -ND	Advice / Reversal transactions not approved
**	ERROR - INVLD 39 rr	Unknown response code rr

