

ELAVON Test Host Pre-Programmed Responses



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ELAVON Test Host Pre-Programmed Responses Time Out Scenario Controls

ELAVON Test Host ①

Time Out ④	How the Time Out event is expected to occur	POS Action Expected ③	Host <u>Response</u> / Action (based on POS Action Expected)
\$1,111.xx	Sale/Purchase/Force/Return requests will be blocked from reaching the Host – therefore no response will be sent back to the POS.	Reversal requested (based on original request values)	<u>Record Not Found</u> (original request was not processed)
\$2,222.xx	Sale/Purchase/Force/Return requests will be processed normally and a response generated, then the response will be blocked from being sent back to the POS.	Reversal requested (based on original request values)	<u>Varies</u> (based on original request response)
\$3,333.xx	Normal authorization processing will occur. Any Echo request with that amount will be blocked from reaching the Host – therefore no Echo response will be sent back to the POS. ②	Reversal requested (based on known response values)	<u>Record Not Found</u> (Record is Host reversed for no Echo)
\$4,444.xx	Normal authorization processing will occur. Any Echo request with that amount will be processed and a normal Echo response generated, then the Echo response will be blocked from being sent back to the POS. ②	Reversal requested (based on known response values)	<u>Approval</u> (based on valid Echo being received)
\$5,555.xx	Normal authorization processing will occur. Any Void request will be blocked from reaching the Host – therefore no Void response will be sent back to the POS. (Note that void requests cannot be reversed)	Request may be repeated.	Original record will not be voided, and no Void response given.
\$6,666.xx	Normal authorization processing will occur. Any Void request will be processed normally and a Void response generated, then the Void response will be blocked from being sent back to the POS.	Request may be repeated.	Valid requests will still void the requested record.
\$7,777.xx	Normal authorization processing will occur. Any Reversal request will be blocked from reaching the Host – therefore no Reversal response will be sent back to the POS. (Note: reversal requests cannot be reversed)	Request may be repeated.	Original record will not be reversed
\$8,888.xx	Normal authorization processing will occur. Any Reversal request will be processed normally and a Reversal response generated, then the Reversal response will be blocked from being sent back to the POS.	Request may be repeated.	Valid requests will still reverse the requested record.
<p>① At the time of this publication, only requests submitted thru the Elavon certgate.viaconex.com gateway will have these controls. Additional development is required for all other gateways, as well as for NOVA API and Custom TCP/IP users.</p>			
<p>② Only applies to Host EDC PIN Debit, EBT, ECS requests which require Echo messages. All other requests process normally.</p>			
<p>③ Do not exceed three automated re-attempts if a response is not received. Declined and Rec Not Found are VALID responses. This applies to test and production.</p>			
<p>④ Control is based on the dollar amount with the cents amount still defining Approval, Decline, etc. (if the request reaches the test host).</p>			



**ELAVON Test Host Pre-Programmed Responses
VISA STP**

VISA - ELAVON STP *

\$X.00	APPROVAL	\$X.50	APPROVAL
\$X.01	APPROVAL	\$X.51	DECLINED
\$X.02	APPROVAL	\$X.52	APPROVAL
\$X.03	APPROVAL	\$X.53	APPROVAL
\$X.04	APPROVAL	\$X.54	EXPIRED CARD
\$X.05	APPROVAL	\$X.55	INCORRECT PIN
\$X.06	APPROVAL	\$X.56	APPROVAL
\$X.07	APPROVAL	\$X.57	DECLINED
\$X.08	APPROVAL	\$X.58	SERV NOT ALLOWED
\$X.09	APPROVAL	\$X.59	INVALID CARD
\$X.10	APPROVAL	\$X.60	APPROVAL
\$X.11	APPROVAL	\$X.61	DECLINED
\$X.12	APPROVAL	\$X.62	DECLINED
\$X.13	AMOUNT ERROR	\$X.63	DECLINED
\$X.14	PARTIAL APPROVAL ①	\$X.64	APPROVAL
\$X.15	APPROVAL	\$X.65	DECLINED
\$X.16	APPROVAL	\$X.66	APPROVAL
\$X.17	APPROVAL	\$X.67	APPROVAL
\$X.18	APPROVAL	\$X.68	PARTIAL APPROVAL ①
\$X.19	DECLINED	\$X.69	APPROVAL
\$X.20	APPROVAL	\$X.70	APPROVAL
\$X.21	DECLINED	\$X.71	APPROVAL
\$X.22	APPROVAL	\$X.72	DECLINED CVV2
\$X.23	APPROVAL ②	\$X.73	INVLD SURCHARGE
\$X.24	APPROVAL	\$X.74	DECLINED
\$X.25	APPROVAL	\$X.75	DECLINED
\$X.26	APPROVAL	\$X.76	DECLINED
\$X.27	APPROVAL	\$X.77	DECLINED
\$X.28	PARTIAL APPROVAL ①	\$X.78	INVALID CARD
\$X.29	APPROVAL	\$X.79	APPROVAL
\$X.30	APPROVAL	\$X.80	APPROVAL
\$X.31	APPROVAL	\$X.81	DECLINED
\$X.32	APPROVAL	\$X.82	APPROVAL
\$X.33	APPROVAL	\$X.83	DECLINED
\$X.34	EXPIRED CARD	\$X.84	APPROVAL
\$X.35	APPROVAL	\$X.85	APPROVAL
\$X.36	APPROVAL	\$X.86	APPROVAL
\$X.37	APPROVAL	\$X.87	DECLINED
\$X.38	APPROVAL	\$X.88	DECLINED
\$X.39	APPROVAL	\$X.89	DECLINED
\$X.40	APPROVAL	\$X.90	APPROVAL
\$X.41	PICK UP CARD	\$X.91	PLEASE RETRY5305
\$X.42	PARTIAL APPROVAL ①	\$X.92	PLEASE RETRY5270
\$X.43	PICK UP CARD	\$X.93	APPROVAL
\$X.44	APPROVAL	\$X.94	APPROVAL
\$X.45	DECLINED	\$X.95	PARTIAL APPROVAL ①
\$X.46	APPROVAL	\$X.96	CALL AUTH CENTER
\$X.47	APPROVAL	\$X.97	APPROVAL
\$X.48	APPROVAL	\$X.98	APPROVAL
\$X.49	APPROVAL	\$X.99	APPROVAL

*	Different authorization responses MAY be returned on some VISA EMV Test Account Numbers - particularly when submitted as Key Entered. EMV Test Case controls may override these controls.
	All responses are based on requests processing thru the "VI" switch. See BACKUP Switch tab if the approval code format = CVJ***
	VISA Responses (VI Switch)
	VISA response times are randomized at the simulator for delay of between 1 millisecond to 4500 milliseconds (.001 seconds to 4.5 seconds)
	Encompass Based Response Codes
AA	Approved Transaction (Auths / Reversals)
AP	Approved Transaction for a Partial Amount
NC	Decline (Pick Up Card)
ND	Decline (Hard or Soft)
NF	Decline (Record Not Found)
NR	Decline (Referral Message)
N7	Decline (For CVV2 Only)
①	Responses for partial authorization - purchase and return Partial Auth Indicator value = "1": \$xx.14 - approval = \$0.07 \$xx.28 - approval = \$0.14 \$xx.42 - approval = \$0.12 \$xx.68 - approval = \$0.23 \$xx.95 - approval = \$0.27 Partial Auth Indicator = 0 will return declines.
②	\$X.23 Authorizations will receive an APPROVAL, however \$X.23 reversals/voids will DECLINE (Encompass Spec only)
③	(Reserved)
④	(Reserved)

VISA - AVS RESPONSE CONTROL

ZIP/Postal Code* (Starts with)	Expected AVS RESPONSE	Notes
0	G	
1	P	9 Digit ZIP expected
2	Y	Address Entry expected
3	Z	
4	N	
5	Y	Address Entry expected
6	A	Address Entry expected
7	C	
8	R	
9	U	
A	A	Address Entry expected
B	B	Address Entry expected
C	C	
D	D	Address Entry expected
E	M	Address Entry expected
F	F	Address Entry expected
G	G	
H	(Blank)	
I	I	
J	U	
K	M	Address Entry expected
L	I	
M	M	Address Entry expected
N	N	
O	D	Address Entry expected
P	P	
Q	(Blank)	
R	R	
S	G	
T	F	Address Entry expected
U	U	
V	B	Address Entry expected
W	P	
X	Y	Address Entry expected
Y	D	Address Entry expected
Z	Z	

AVS RESPONSE	Elavon AVS Response Definitions
A	Address (Street) matches, Zip does not.
B	Street address match, Postal code in wrong format. (international issuer)
C	Street address and postal code in wrong formats
D	Street address and postal code match (international issuer)
E	AVS error
F	Address does compare and five-digit ZIP code does compare (UK only).
G	Card issued by a non-US issuer that does not participate in the AVS System
I	Address information not verified by international issuer.
M	Street Address and Postal code match (international issuer)
N	No Match on Address (Street) or Zip
P	Postal codes match, Street address not verified due to incompatible formats.
R	Retry, System unavailable or Timed out
S	Service not supported by issuer
U	Address information is unavailable (domestic issuer)
W	9 digit Zip matches, Address (Street) does not
X	Exact AVS Match
Y	Address (Street) and 5 digit Zip match
Z	5 digit Zip matches, Address (Street) does not

* NOTE: use of lower case in Postal Code may result in AVS Response Code variances

VISA - CVV2 Response Control

CVV2 Indicator	CVV2 Last Digit	CVV2 Response	Results *
0	Bypass	<Blank>	No Response given
0	Bypass	S	VISA EMV Test Accounts MAY return "S"
1	0	M	Match
1	1	M	Match
1	2	N	No match
1	3	M	Match
1	4	P	Not Processed
1	5	U	Issuer not certified/registered to process
1	6	N	No match
1	7	M	Match
1	8	N	No match
1	9	M	Match
2	Illegible	<Blank>	No Response given
2	Illegible	S	VISA EMV Test Accounts MAY return "S"
9	Not Present	<Blank>	No Response given
9	Not Present	S	VISA EMV Test Accounts MAY return "S"

Expected VISA CVV2 value length = 3 digits

* Any CVV2 value beginning with two zeros or contains a space will return a "No Match" response.

NOTE: VISA no longer allows processing of CVV2 values on card present requests. The CVV2 data will be dropped from all chip, tap, swipe or keyed card present requests - no CVV2 response will be returned - Response = <blank>



**ELAVON Test Host Pre-Programmed Responses
Mastercard STP**

MASTERCARD - ELAVON STP * (USING KNOWN EMV TEST CARDS - all Entry Methods)

\$X.00	APPROVAL	\$X.50	APPROVAL
\$X.01	APPROVAL	\$X.51	DECLINED
\$X.02	APPROVAL	\$X.52	APPROVAL
\$X.03	APPROVAL	\$X.53	APPROVAL
\$X.04	APPROVAL	\$X.54	EXPIRED CARD
\$X.05	APPROVAL	\$X.55	INCORRECT PIN
\$X.06	APPROVAL	\$X.56	APPROVAL
\$X.07	APPROVAL	\$X.57	DECLINED
\$X.08	APPROVAL	\$X.58	SERV NOT ALLOWED
\$X.09	APPROVAL	\$X.59	DECLINED
\$X.10	APPROVAL	\$X.60	APPROVAL
\$X.11	APPROVAL	\$X.61	DECLINED
\$X.12	APPROVAL	\$X.62	DECLINED
\$X.13	AMOUNT ERROR	\$X.63	DECLINED
\$X.14	PARTIAL APPROVAL ①	\$X.64	APPROVAL
\$X.15	APPROVAL	\$X.65	DECLINED
\$X.16	APPROVAL	\$X.66	APPROVAL
\$X.17	APPROVAL	\$X.67	APPROVAL
\$X.18	APPROVAL	\$X.68	PARTIAL APPROVAL ①
\$X.19	DECLINED	\$X.69	APPROVAL
\$X.20	APPROVAL	\$X.70	APPROVAL
\$X.21	DECLINED	\$X.71	APPROVAL
\$X.22	APPROVAL	\$X.72	DECLINED
\$X.23	APPROVAL ②	\$X.73	APPROVAL
\$X.24	APPROVAL	\$X.74	DECLINED
\$X.25	APPROVAL	\$X.75	DECLINED
\$X.26	APPROVAL	\$X.76	DECLINED
\$X.27	APPROVAL	\$X.77	DECLINED
\$X.28	PARTIAL APPROVAL ①	\$X.78	INVALID CARD
\$X.29	APPROVAL	\$X.79	APPROVAL
\$X.30	APPROVAL	\$X.80	APPROVAL
\$X.31	APPROVAL	\$X.81	DECLINED
\$X.32	APPROVAL	\$X.82	APPROVAL
\$X.33	APPROVAL	\$X.83	DECLINED
\$X.34	EXPIRED CARD	\$X.84	APPROVAL
\$X.35	APPROVAL	\$X.85	APPROVAL
\$X.36	APPROVAL	\$X.86	APPROVAL
\$X.37	APPROVAL	\$X.87	DECLINED
\$X.38	APPROVAL	\$X.88	DECLINED
\$X.39	APPROVAL	\$X.89	DECLINED
\$X.40	APPROVAL	\$X.90	APPROVAL
\$X.41	PICK UP CARD	\$X.91	PLEASE RETRY5270
\$X.42	PARTIAL APPROVAL ①	\$X.92	DECLINED
\$X.43	PICK UP CARD	\$X.93	APPROVAL
\$X.44	APPROVAL	\$X.94	APPROVAL
\$X.45	DECLINED	\$X.95	PARTIAL APPROVAL ①
\$X.46	APPROVAL	\$X.96	CALL AUTH CENTER
\$X.47	APPROVAL	\$X.97	APPROVAL
\$X.48	APPROVAL	\$X.98	APPROVAL
\$X.49	APPROVAL	\$X.99	APPROVAL

*	<p>Different authorization responses MAY be returned on some Mastercard EMV Test Account Numbers - particularly when submitted as Key Entered.</p> <p>EMV Test Case controls may override these controls.</p> <p>All responses are based on requests processing thru the "MT" switch. See BACKUP Switch tab if the approval code format = CVI***</p> <p>Mastercard Responses (MT Switch)</p> <p>Mastercard response times are randomized at the simulator for delay of between 1 millisecond to 4500 milliseconds (.001 seconds to 4.5 seconds)</p> <p>Encompass Based Response Codes</p> <table border="1"> <tr><td>AA</td><td>Approved Transaction (Auths / Reversals)</td></tr> <tr><td>AP</td><td>Approved Transaction for a Partial Amount</td></tr> <tr><td>NC</td><td>Decline (Pick Up Card)</td></tr> <tr><td>ND</td><td>Decline (Hard or Soft)</td></tr> <tr><td>NF</td><td>Decline (Record Not Found)</td></tr> <tr><td>NR</td><td>Decline (Referral Message)</td></tr> <tr><td>N7</td><td>Decline (For CVV2 Only)</td></tr> </table> <p>Responses for partial authorization - purchase and return Partial Auth Indicator value = "1": \$xx.14 - approval = \$0.07 \$xx.28 - approval = \$0.14 \$xx.42 - approval = \$0.12 \$xx.68 - approval = \$0.23 \$xx.95 - approval = \$0.27 Partial Auth Indicator = 0 will return declines.</p> <p>② \$X.23 Authorizations will receive an APPROVAL, however \$X.23 reversals/voids will DECLINE (Encompass Spec only)</p> <p>③ (Reserved)</p> <p>④ (Reserved)</p>	AA	Approved Transaction (Auths / Reversals)	AP	Approved Transaction for a Partial Amount	NC	Decline (Pick Up Card)	ND	Decline (Hard or Soft)	NF	Decline (Record Not Found)	NR	Decline (Referral Message)	N7	Decline (For CVV2 Only)
AA	Approved Transaction (Auths / Reversals)														
AP	Approved Transaction for a Partial Amount														
NC	Decline (Pick Up Card)														
ND	Decline (Hard or Soft)														
NF	Decline (Record Not Found)														
NR	Decline (Referral Message)														
N7	Decline (For CVV2 Only)														

MASTERCARD - AVS RESPONSE CONTROL

ZIP/Postal Code* (Starts with)	Expected AVS RESPONSE	Notes
0	S	
1	W	9 Digit ZIP expected
2	X	Address Entry expected
3	Z	
4	N	
5	X	Address Entry expected
6	A	Address Entry expected
7	C	
8	R	
9	U	
A	A	Address Entry expected
B	B	Address Entry expected
C	C	
D	Y	Address Entry expected
E	Y	Address Entry expected
F	Y	Address Entry expected
G	S	
H	S	
I	U	
J	U	
K	Y	Address Entry expected
L	U	
M	Y	Address Entry expected
N	N	
O	Y	Address Entry expected
P	W	
Q	S	
R	R	
S	S	
T	Y	Address Entry expected
U	U	
V	B	Address Entry expected
W	W	
X	X	Address Entry expected
Y	Y	Address Entry expected
Z	Z	

AVS RESPONSE	Elavon AVS Response Definitions
A	Address (Street) matches, Zip does not.
B	Street address match, Postal code in wrong format. (international issuer)
C	Street address and postal code in wrong formats
D	Street address and postal code match (international issuer)
E	AVS error
F	Address does compare and five-digit ZIP code does compare (UK only).
G	Card issued by a non-US issuer that does not participate in the AVS System
I	Address information not verified by international issuer.
M	Street Address and Postal code match (international issuer)
N	No Match on Address (Street) or Zip
P	Postal codes match, Street address not verified due to incompatible formats.
R	Retry, System unavailable or Timed out
S	Service not supported by issuer
U	Address information is unavailable (domestic issuer)
W	9 digit Zip matches, Address (Street) does not
X	Exact AVS Match
Y	Address (Street) and 5 digit Zip match
Z	5 digit Zip matches, Address (Street) does not

* NOTE: use of lower case in Postal Code may result in AVS Response Code variances

MASTERCARD - CVV2 (CVC2) Response Control

CVV2 Indicator	CVV2 Last Digit	CVV2 Response	Results *
0	Bypass	<Blank>	No Response given
1	0	M	Match
1	1	M	Match
1	2	N	No match
1	3	M	Match
1	4	P	Not Processed
1	5	U	Issuer not certified/registered to process
1	6	N	No match
1	7	M	Match
1	8	N	No match
1	9	M	Match
2	Illegible	<Blank>	No Response given
9	Not Present	<Blank>	No Response given

Expected Mastercard CVC2 value length = 3 digits
* Any CVV2 (CVC2) value beginning with two zeros or contains a space will return a "No Match" response.

MASTERCARD - ELAVON STP * (USING KNOWN EMV TEST CARDS - all Entry Methods)



ELAVON Test Host Pre-Programmed Responses MasterCard - Temp Use 1

TEMPORARY USE - Mastercard - non-EMV test cards (non-STP) - Approval Code = CMC***

\$X.00	APPROVAL	\$X.50	APPROVAL
\$X.01	CALL AUTH CENTER	\$X.51	DECLINED
\$X.02	CALL AUTH CENTER	\$X.52	CALL AUTH CENTER
\$X.03	CALL AUTH CENTER	\$X.53	CALL AUTH CENTER
\$X.04	PICK UP CARD	\$X.54	EXPIRED CARD
\$X.05	DECLINED	\$X.55	INCORRECT PIN
\$X.06	APPROVAL	\$X.56	APPROVAL
\$X.07	PICK UP CARD	\$X.57	DECLINED
\$X.08	APPROVAL	\$X.58	SERV NOT ALLOWED
\$X.09	CALL AUTH CENTER	\$X.59	APPROVAL
\$X.10	PARTIAL APPROVAL (1)	\$X.60	APPROVAL
\$X.11	APPROVAL	\$X.61	EXCEEDS AMT LMT
\$X.12	CALL AUTH CENTER	\$X.62	DECLINED
\$X.13	AMOUNT ERROR	\$X.63	DECLINED
\$X.14	INVALID CARD	\$X.64	APPROVAL
\$X.15	INVALID CARD	\$X.65	DECLINED
\$X.16	APPROVAL	\$X.66	APPROVAL
\$X.17	APPROVAL	\$X.67	APPROVAL
\$X.18	APPROVAL	\$X.68	APPROVAL
\$X.19	PLEASE RETRY5270	\$X.69	APPROVAL
\$X.20	APPROVAL	\$X.70	APPROVAL
\$X.21	DECLINED	\$X.71	APPROVAL
\$X.22	APPROVAL	\$X.72	APPROVAL
\$X.23	APPROVAL (2)	\$X.73	APPROVAL
\$X.24	APPROVAL	\$X.74	APPROVAL
\$X.25	CALL AUTH CENTER	\$X.75	DECLINED
\$X.26	CALL AUTH CENTER	\$X.76	REC NOT FOUND
\$X.27	APPROVAL	\$X.77	CALL AUTH CENTER
\$X.28	CALL AUTH CENTER	\$X.78	INVALID CARD
\$X.29	APPROVAL	\$X.79	APPROVAL
\$X.30	CALL AUTH CENTER	\$X.80	PLEASE RETRY5305
\$X.31	APPROVAL	\$X.81	SERV NOT ALLOWED
\$X.32	APPROVAL	\$X.82	CALL AUTH CENTER
\$X.33	EXPIRED CARD	\$X.83	INCORRECT PIN
\$X.34	APPROVAL	\$X.84	CALL AUTH CENTER
\$X.35	APPROVAL	\$X.85	APPROVAL
\$X.36	APPROVAL	\$X.86	APPROVAL
\$X.37	APPROVAL	\$X.87	APPROVAL
\$X.38	APPROVAL	\$X.88	DECLINED
\$X.39	APPROVAL	\$X.89	DECLINED
\$X.40	APPROVAL	\$X.90	CALL AUTH CENTER
\$X.41	PICK UP CARD	\$X.91	PLEASE RETRY5270
\$X.42	APPROVAL	\$X.92	PLEASE RETRY5270
\$X.43	PICK UP CARD	\$X.93	CALL AUTH CENTER
\$X.44	APPROVAL	\$X.94	PLEASE RETRY5270
\$X.45	APPROVAL	\$X.95	APPROVAL
\$X.46	APPROVAL	\$X.96	CALL AUTH CENTER
\$X.47	APPROVAL	\$X.97	CALL AUTH CENTER
\$X.48	APPROVAL	\$X.98	PLEASE RETRY5270
\$X.49	APPROVAL	\$X.99	APPROVAL

All responses are based on US Dollar (USD) merchant setups merchant setups with other currencies may have different response values

For cards ending in odd numbers:

5*****1	2*****1
5*****3	2*****3
5*****5	2*****5
5*****7	2*****7
5*****9	2*****9

Transaction response includes Association Token information (Block 8F data)

Value changes based on last digit of card being odd or even

Encompass Based Response Codes

AA	Approved Transaction (Auths / Reversals)
AP	Approved Transaction for a Partial Amount
NC	Decline (Pick Up Card)
ND	Decline (Hard or Soft)
NF	Decline (Record Not Found)
NR	Decline (Referral Message)
N7	Decline (For CVV2 Only)

(1) Response for partial authorization - using \$X.10 amount with the Partial Auth Indicator value of "1" will return an approval for an amount of \$X.05 (your dollar amount less five cents. Example: \$10.10 amount with the Partial Auth Indicator = 1 will return an approval for \$10.05
Partial Auth Indicator = 0 will return declines. See below regarding Account Balance value.

(2) \$X.23 Authorizations will receive an APPROVAL, however \$X.23 reversals/voids will DECLINE (Encompass Spec only)

ACCOUNT BALANCE

Partial Auth Indicator = 0	will return the requested amount value as the Account Balance (\$X.XX = \$X.XX)
Partial Auth Indicator = 1	cents amount = \$X.10 and approved amount equals \$X.05, the Account Balance will be blank.
Declines and other responses	will return the requested amount value as the Account Balance.

AVS RESPONSES

MASTERCARD

Last Digit of Card	AVS Response
0	X
1	Y
2	A
3	W
4	Z
5	D
6	U
7	R
8	S
9	G

- A Address (street #) matches and ZIP does not
- D Street address and Postal Code match (international issuer)
- G Card issued by non-US issuer that doesn't participate in AVS System
- N NO Match on Address (street #) or ZIP
- R Retry, System unavailable or Timed out
- S Service not supported by issuer
- U Address information is unavailable (domestic issuer)
- W 9 digit ZIP matches, Address (street #) does not
- X Exact AVS match
- Y Address (street #) and 5 digit ZIP match
- Z 5 digit ZIP matches, Address (street #) does not

NO OTHER AVS VALUES ARE SIMULATED AT THIS TIME

Expected CVV2/CVC2/CID Responses

Card Verification Indicator	MasterCard (Third Digit Controls Response)
0	{blank}
1	M
1	N
1	U
1	P
1	M
1	N
1	M
1	N
1	M
1	N
2	{blank}
9	{blank}

MasterCard Transaction Integrity Class (TIC)

Card Last Digit	TIC Value
0	U0
1	A1
2	B1
3	C1
4	E1
5	A2
6	B2
7	C2
8	D2
9	E2

Currency must = 840

TEMPORARY USE - Mastercard - non-EMV test cards (non-STP) - Approval Code = CMC***

Revised
4/16/2019



ELAVON Test Host Pre-Programmed Responses MasterCard - Temp Use 2

TEMPORARY USE - Mastercard - non-EMV test cards (non-STP) - Approval Code = CMC***

\$X.00	APPROVAL	\$X.50	APPROVAL
\$X.01	CALL AUTH CENTER	\$X.51	DECLINED
\$X.02	CALL AUTH CENTER	\$X.52	CALL AUTH CENTER
\$X.03	CALL AUTH CENTER	\$X.53	CALL AUTH CENTER
\$X.04	PICK UP CARD	\$X.54	EXPIRED CARD
\$X.05	DECLINED	\$X.55	INCORRECT PIN
\$X.06	CALL AUTH CENTER	\$X.56	APPROVAL
\$X.07	PICK UP CARD	\$X.57	DECLINED
\$X.08	APPROVAL	\$X.58	SERV NOT ALLOWED
\$X.09	CALL AUTH CENTER	\$X.59	APPROVAL
\$X.10	PARTIAL APPROVAL (1)	\$X.60	APPROVAL
\$X.11	APPROVAL	\$X.61	EXCEEDS AMT LMT
\$X.12	CALL AUTH CENTER	\$X.62	DECLINED
\$X.13	AMOUNT ERROR	\$X.63	DECLINED
\$X.14	INVALID CARD	\$X.64	APPROVAL
\$X.15	INVALID CARD	\$X.65	DECLINED
\$X.16	APPROVAL	\$X.66	APPROVAL
\$X.17	APPROVAL	\$X.67	APPROVAL
\$X.18	APPROVAL	\$X.68	CALL AUTH CENTER
\$X.19	PLEASE RETRY5270	\$X.69	APPROVAL
\$X.20	APPROVAL	\$X.70	APPROVAL
\$X.21	DECLINED	\$X.71	APPROVAL
\$X.22	APPROVAL	\$X.72	DECLINED CVV2
\$X.23	APPROVAL (2)	\$X.73	CALL AUTH CENTER
\$X.24	APPROVAL	\$X.74	DECLINED
\$X.25	CALL AUTH CENTER	\$X.75	DECLINED
\$X.26	APPROVAL	\$X.76	DL ERROR - RETRY
\$X.27	APPROVAL	\$X.77	DECLINED
\$X.28	CALL AUTH CENTER	\$X.78	INVALID CARD
\$X.29	APPROVAL	\$X.79	APPROVAL
\$X.30	CALL AUTH CENTER	\$X.80	PLEASE RETRY5305
\$X.31	APPROVAL	\$X.81	SERV NOT ALLOWED
\$X.32	APPROVAL	\$X.82	CALL AUTH CENTER
\$X.33	EXPIRED CARD	\$X.83	INCORRECT PIN
\$X.34	APPROVAL	\$X.84	CALL AUTH CENTER
\$X.35	APPROVAL	\$X.85	APPROVAL
\$X.36	APPROVAL	\$X.86	CALL REF:
\$X.37	APPROVAL	\$X.87	APPROVAL
\$X.38	APPROVAL	\$X.88	DECLINED
\$X.39	CALL AUTH CENTER	\$X.89	DECLINED
\$X.40	APPROVAL	\$X.90	CALL AUTH CENTER
\$X.41	PICK UP CARD	\$X.91	PLEASE RETRY5270
\$X.42	APPROVAL	\$X.92	PLEASE RETRY5270
\$X.43	PICK UP CARD	\$X.93	CALL AUTH CENTER
\$X.44	APPROVAL	\$X.94	APPROVAL
\$X.45	APPROVAL	\$X.95	APPROVAL
\$X.46	APPROVAL	\$X.96	CALL AUTH CENTER
\$X.47	APPROVAL	\$X.97	CALL AUTH CENTER
\$X.48	APPROVAL	\$X.98	DECLINED
\$X.49	APPROVAL	\$X.99	DECLINED

All responses are based on US Dollar (USD) merchant setups merchant setups with other currencies may have different response values

For cards ending in even numbers:

5*****0	2*****0
5*****2	2*****2
5*****4	2*****4
5*****6	2*****6
5*****8	2*****8

Transaction response includes Association Token information (Block 8F data)

Value changes based on last digit of card being odd or even

Encompass Based Response Codes

AA	Approved Transaction (Auths / Reversals)
AP	Approved Transaction for a Partial Amount
NC	Decline (Pick Up Card)
ND	Decline (Hard or Soft)
NF	Decline (Record Not Found)
NR	Decline (Referral Message)
N7	Decline (For CVV2 Only)

(1) Response for partial authorization - using \$X.10 amount with the Partial Auth Indicator value of "1" will return an approval for an amount of \$X.05 (your dollar amount less five cents. Example: \$10.10 amount with the Partial Auth Indicator = 1 will return an approval for \$10.05
Partial Auth Indicator = 0 will return declines. See below regarding Account Balance value.

(2) \$X.23 Authorizations will receive an APPROVAL, however \$X.23 reversals/voids will DECLINE (Encompass Spec only)

ACCOUNT BALANCE

Partial Auth Indicator = 0	will return the requested amount value as the Account Balance (\$X.XX = \$X.XX)
Partial Auth Indicator = 1	cents amount = \$X.10 and approved amount equals \$X.05, the Account Balance will be blank.
Declines and other responses	will return the requested amount value as the Account Balance.

AVS RESPONSES

MASTERCARD

Last Digit of Card	AVS Response
0	X
1	Y
2	A
3	W
4	Z
5	D
6	U
7	R
8	S
9	G

- A Address (street #) matches and ZIP does not
- D Street address and Postal Code match (international issuer)
- G Card issued by non-US issuer that doesn't participate in AVS System
- N NO Match on Address (street #) or ZIP
- R Retry, System unavailable or Timed out
- S Service not supported by issuer
- U Address information is unavailable (domestic issuer)
- W 9 digit ZIP matches, Address (street #) does not
- X Exact AVS match
- Y Address (street #) and 5 digit ZIP match
- Z 5 digit ZIP matches, Address (street #) does not

NO OTHER AVS VALUES ARE SIMULATED AT THIS TIME

Expected CVV2/CVC2/CID Responses

Card Verification Indicator	MasterCard (Third Digit Controls Response)
0	{blank}
1	M
1	N
1	U
1	P
1	M
1	N
1	M
1	N
1	M
1	N
2	{blank}
9	{blank}

MasterCard Transaction Integrity Class (TIC)

Card Last Digit	TIC Value
0	U0
1	A1
2	B1
3	C1
4	E1
5	A2
6	B2
7	C2
8	D2
9	E2

Currency must = 840

TEMPORARY USE - Mastercard - non-EMV test cards (non-STP) - Approval Code = CMC***

Revised
4/16/2019



**ELAVON Test Host Pre-Programmed Responses
AMEX STP**

AMEX - ELAVON STP *

\$X.00	APPROVAL	\$X.50	APPROVAL
\$X.01	APPROVAL	\$X.51	DECLINED
\$X.02	APPROVAL	\$X.52	APPROVAL
\$X.03	APPROVAL	\$X.53	APPROVAL
\$X.04	APPROVAL	\$X.54	EXPIRED CARD
\$X.05	APPROVAL	\$X.55	INCORRECT PIN
\$X.06	APPROVAL	\$X.56	APPROVAL
\$X.07	APPROVAL	\$X.57	DECLINED
\$X.08	APPROVAL	\$X.58	SERV NOT ALLOWED
\$X.09	APPROVAL	\$X.59	INVALID CARD
\$X.10	APPROVAL	\$X.60	APPROVAL
\$X.11	APPROVAL	\$X.61	DECLINED
\$X.12	APPROVAL	\$X.62	DECLINED
\$X.13	AMOUNT ERROR	\$X.63	DECLINED
\$X.14	PARTIAL APPROVAL ①	\$X.64	APPROVAL
\$X.15	APPROVAL	\$X.65	DECLINED
\$X.16	APPROVAL	\$X.66	APPROVAL
\$X.17	APPROVAL	\$X.67	APPROVAL
\$X.18	APPROVAL	\$X.68	PARTIAL APPROVAL ①
\$X.19	DECLINED	\$X.69	APPROVAL
\$X.20	APPROVAL	\$X.70	APPROVAL
\$X.21	DECLINED	\$X.71	APPROVAL
\$X.22	APPROVAL	\$X.72	DECLINED
\$X.23	APPROVAL ②	\$X.73	APPROVAL
\$X.24	APPROVAL	\$X.74	DECLINED
\$X.25	APPROVAL	\$X.75	DECLINED
\$X.26	APPROVAL	\$X.76	DECLINED
\$X.27	APPROVAL	\$X.77	DECLINED
\$X.28	PARTIAL APPROVAL ①	\$X.78	INVALID CARD
\$X.29	APPROVAL	\$X.79	APPROVAL
\$X.30	APPROVAL	\$X.80	APPROVAL
\$X.31	APPROVAL	\$X.81	DECLINED
\$X.32	APPROVAL	\$X.82	APPROVAL
\$X.33	APPROVAL	\$X.83	DECLINED
\$X.34	EXPIRED CARD	\$X.84	APPROVAL
\$X.35	APPROVAL	\$X.85	APPROVAL
\$X.36	APPROVAL	\$X.86	APPROVAL
\$X.37	APPROVAL	\$X.87	DECLINED
\$X.38	APPROVAL	\$X.88	DECLINED
\$X.39	APPROVAL	\$X.89	DECLINED
\$X.40	APPROVAL	\$X.90	APPROVAL
\$X.41	PICK UP CARD	\$X.91	PLEASE RETRY5305
\$X.42	PARTIAL APPROVAL ①	\$X.92	PLEASE RETRY5270
\$X.43	PICK UP CARD	\$X.93	APPROVAL
\$X.44	APPROVAL	\$X.94	APPROVAL
\$X.45	DECLINED	\$X.95	PARTIAL APPROVAL ①
\$X.46	APPROVAL	\$X.96	CALL AUTH CENTER
\$X.47	APPROVAL	\$X.97	APPROVAL
\$X.48	APPROVAL	\$X.98	APPROVAL
\$X.49	APPROVAL	\$X.99	APPROVAL

AMEX - ELAVON STP *

*	Different authorization responses MAY be returned on some AMEX EMV Test Account Numbers - particularly when submitted as Key Entered. EMV Test Case controls may override these controls.
All responses are based on requests processing thru the "AX" switch. See BACKUP Switch tab if the approval code format = CVI***	
American Express Responses (AX Switch)	
AMEX response times are randomized at the simulator for delay of between 1 millisecond to 4500 milliseconds (.001 seconds to 4.5 seconds)	
Encompass Based Response Codes	
AA	Approved Transaction (Auths / Reversals)
AP	Approved Transaction for a Partial Amount
NC	Decline (Pick Up Card)
ND	Decline (Hard or Soft)
NF	Decline (Record Not Found)
NR	Decline (Referral Message)
N7	Decline (For CVV2 Only)
①	Responses for partial authorization - purchase and return Partial Auth Indicator value = "1": \$xx.14 - approval = \$0.07 \$xx.28 - approval = \$0.14 \$xx.42 - approval = \$0.12 \$xx.68 - approval = \$0.23 \$xx.95 - approval = \$0.27 Partial Auth Indicator = 0 will return declines.
②	\$X.23 Authorizations will receive an APPROVAL, however \$X.23 reversals/voids will DECLINE (Encompass Spec only)
③	(Reserved)
④	(Reserved)

AMEX - AVS RESPONSE CONTROL

ZIP/Postal Code* (Starts with)	Expected AVS RESPONSE	Notes
0	S	
1	Z	9 Digit ZIP expected
2	Y	Address Entry expected
3	Z	
4	N	
5	Y	Address Entry expected
6	A	Address Entry expected
7	N	
8	R	
9	U	
A	A	Address Entry expected
B	A	Address Entry expected
C	N	
D	Y	Address Entry expected
E	Y	Address Entry expected
F	Y	Address Entry expected
G	S	
H	(Blank)	
I	S	
J	U	
K	Y	Address Entry expected
L	S	
M	Y	Address Entry expected
N	N	
O	Y	Address Entry expected
P	Z	
Q	(Blank)	
R	R	
S	S	
T	Y	Address Entry expected
U	U	
V	A	Address Entry expected
W	Z	
X	Y	Address Entry expected
Y	Y	Address Entry expected
Z	Z	

AVS RESPONSE	Elavon AVS Response Definitions
A	Address (Street) matches, Zip does not.
B	Street address match, Postal code in wrong format. (international issuer)
C	Street address and postal code in wrong formats
D	Street address and postal code match (international issuer)
E	AVS error
F	Address does compare and five-digit ZIP code does compare (UK only).
G	Card issued by a non-US issuer that does not participate in the AVS System
I	Address information not verified by international issuer.
M	Street Address and Postal code match (international issuer)
N	No Match on Address (Street) or Zip
P	Postal codes match, Street address not verified due to incompatible formats.
R	Retry, System unavailable or Timed out
S	Service not supported by issuer
U	Address information is unavailable (domestic issuer)
W	9 digit Zip matches, Address (Street) does not
X	Exact AVS Match
Y	Address (Street) and 5 digit Zip match
Z	5 digit Zip matches, Address (Street) does not

* NOTE: use of lower case in Postal Code may result in AVS Response Code variances

AMEX - CVV2 (CID) Response Control

CVV2 Indicator	CVV2 Last Digit	CVV2 Response	Results *
0	Bypass	<Blank>	No Response given
1	0	M	Match
1	1	M	Match
1	2	N	No match
1	3	M	Match
1	4	P	Not Processed
1	5	<Blank>	No Response given
1	6	N	No match
1	7	M	Match
1	8	N	No match
1	9	M	Match
2	Illegible	<Blank>	No Response given
9	Not Present	<Blank>	No Response given

Expected AMEX CID value length = 4 digits
* Any CVV2 (CID) value beginning with three zeros or contains two or more spaces will return a "No Match" response.



ELAVON Test Host Pre-Programmed Responses Discover STP

DISCOVER - ELAVON STP *

\$X.00	APPROVAL	\$X.50	APPROVAL
\$X.01	APPROVAL	\$X.51	DECLINED
\$X.02	APPROVAL	\$X.52	APPROVAL
\$X.03	APPROVAL	\$X.53	APPROVAL
\$X.04	APPROVAL	\$X.54	EXPIRED CARD
\$X.05	APPROVAL	\$X.55	INCORRECT PIN
\$X.06	APPROVAL	\$X.56	APPROVAL
\$X.07	APPROVAL	\$X.57	DECLINED
\$X.08	APPROVAL	\$X.58	SERV NOT ALLOWED
\$X.09	APPROVAL	\$X.59	INVALID CARD
\$X.10	APPROVAL	\$X.60	APPROVAL
\$X.11	APPROVAL	\$X.61	DECLINED
\$X.12	APPROVAL	\$X.62	DECLINED
\$X.13	AMOUNT ERROR	\$X.63	DECLINED
\$X.14	PARTIAL APPROVAL (1)	\$X.64	APPROVAL
\$X.15	APPROVAL	\$X.65	DECLINED
\$X.16	APPROVAL	\$X.66	APPROVAL
\$X.17	APPROVAL	\$X.67	APPROVAL
\$X.18	APPROVAL	\$X.68	PARTIAL APPROVAL (1)
\$X.19	DECLINED	\$X.69	APPROVAL
\$X.20	APPROVAL	\$X.70	APPROVAL
\$X.21	DECLINED	\$X.71	APPROVAL
\$X.22	APPROVAL	\$X.72	DECLINED
\$X.23	APPROVAL (2)	\$X.73	APPROVAL
\$X.24	APPROVAL	\$X.74	DECLINED
\$X.25	APPROVAL	\$X.75	DECLINED
\$X.26	APPROVAL	\$X.76	DECLINED
\$X.27	APPROVAL	\$X.77	DECLINED
\$X.28	PARTIAL APPROVAL (1)	\$X.78	INVALID CARD
\$X.29	APPROVAL	\$X.79	APPROVAL
\$X.30	APPROVAL	\$X.80	APPROVAL
\$X.31	APPROVAL	\$X.81	DECLINED
\$X.32	APPROVAL	\$X.82	APPROVAL
\$X.33	APPROVAL	\$X.83	DECLINED
\$X.34	EXPIRED CARD	\$X.84	APPROVAL
\$X.35	APPROVAL	\$X.85	APPROVAL
\$X.36	APPROVAL	\$X.86	APPROVAL
\$X.37	APPROVAL	\$X.87	DECLINED (3)
\$X.38	APPROVAL	\$X.88	DECLINED
\$X.39	APPROVAL	\$X.89	DECLINED
\$X.40	APPROVAL	\$X.90	APPROVAL
\$X.41	PICK UP CARD	\$X.91	PLEASE RETRY5305
\$X.42	PARTIAL APPROVAL (1)	\$X.92	PLEASE RETRY5270
\$X.43	PICK UP CARD	\$X.93	APPROVAL
\$X.44	APPROVAL	\$X.94	APPROVAL
\$X.45	DECLINED	\$X.95	PARTIAL APPROVAL (1)
\$X.46	APPROVAL	\$X.96	CALL AUTH CENTER
\$X.47	APPROVAL	\$X.97	APPROVAL
\$X.48	APPROVAL	\$X.98	APPROVAL
\$X.49	APPROVAL	\$X.99	APPROVAL

DISCOVER - ELAVON STP *

*	Different authorization responses MAY be returned on some Discover EMV Test Account Numbers - particularly when submitted as Key Entered. EMV Test Case controls may override these controls.
All responses are based on requests processing thru the "DI" switch. See BACKUP Switch tab if the approval code format = CVI***	
Discover Responses (DI Switch)	
Discover response times are randomized at the simulator for delay of between 1 millisecond to 4500 milliseconds (.001 seconds to 4.5 seconds)	
Encompass Based Response Codes	
AA	Approved Transaction (Auths / Reversals)
AP	Approved Transaction for a Partial Amount
NC	Decline (Pick Up Card)
ND	Decline (Hard or Soft)
NF	Decline (Record Not Found)
NR	Decline (Referral Message)
N7	Decline (For CVV2 Only)
(1)	Responses for partial authorization - purchase and return Partial Auth Indicator value = "1": \$xx.14 - approval = \$0.07 \$xx.28 - approval = \$0.14 \$xx.42 - approval = \$0.12 \$xx.68 - approval = \$0.23 \$xx.95 - approval = \$0.27 Partial Auth Indicator = 0 will return declines.
(2)	\$X.23 Authorizations will receive an APPROVAL, however \$X.23 reversals/voids will DECLINE (Encompass Spec only)
(3)	(Reserved)
(4)	(Reserved)

DISCOVER - AVS RESPONSE CONTROL

ZIP/Postal Code* (Starts with)	Expected AVS RESPONSE	Notes
0	S	
1	W	9 Digit ZIP expected
2	X	Address Entry expected
3	Z	
4	N	
5	X	Address Entry expected
6	A	Address Entry expected
7	N	
8	R	
9	U	
A	A	Address Entry expected
B	A	Address Entry expected
C	N	
D	Y	Address Entry expected
E	Y	Address Entry expected
F	Y	Address Entry expected
G	S	
H	R	
I	G	
J	U	
K	Y	Address Entry expected
L	G	
M	Y	Address Entry expected
N	N	
O	Y	Address Entry expected
P	W	
Q	R	
R	R	
S	S	
T	Y	Address Entry expected
U	U	
V	A	Address Entry expected
W	W	
X	X	Address Entry expected
Y	Y	Address Entry expected
Z	Z	

AVS RESPONSE	Elavon AVS Response Definitions
A	Address (Street) matches, Zip does not.
B	Street address match, Postal code in wrong format. (international issuer)
C	Street address and postal code in wrong formats
D	Street address and postal code match (international issuer)
E	AVS error
F	Address does compare and five-digit ZIP code does compare (UK only).
G	Card issued by a non-US issuer that does not participate in the AVS System
I	Address information not verified by international issuer.
M	Street Address and Postal code match (international issuer)
N	No Match on Address (Street) or Zip
P	Postal codes match, Street address not verified due to incompatible formats.
R	Retry, System unavailable or Timed out
S	Service not supported by issuer
U	Address information is unavailable (domestic issuer)
W	9 digit Zip matches, Address (Street) does not
X	Exact AVS Match
Y	Address (Street) and 5 digit Zip match
Z	5 digit Zip matches, Address (Street) does not

* NOTE: use of lower case in Postal Code may result in AVS Response Code variances

DISCOVER - CVV2 (CID) Response Control

CVV2 Indicator	CVV2 Last Digit	CVV2 Response	Results *
0	Bypass	S	MAY return "S" or have No Response given
1	0	M	Match
1	1	M	Match
1	2	N	No match
1	3	M	Match
1	4	P	Not Processed
1	5	U	Issuer not certified/registered to process
1	6	N	No match
1	7	M	Match
1	8	N	No match
1	9	M	Match
2	Illegible	S	MAY return "S" or have No Response given
9	Not Present	S	MAY return "S" or have No Response given

Expected Discover CID value length = 3 digits

* Any CVV2 (CID) value beginning with two zeros or contains two or more spaces will return a "No Match" response.



ELAVON Test Host Pre-Programmed Responses BACKUP Switch

BACKUP SWITCH - Approval Code = CVI***			
Used if the primary switch is not available for VISA, MasterCard, AMEX or Discover requests			
\$X.00	APPROVAL	\$X.50	APPROVAL
\$X.01	CALL AUTH CENTER	\$X.51	DECLINED
\$X.02	CALL AUTH CENTER	\$X.52	CALL AUTH CENTER
\$X.03	CALL AUTH CENTER	\$X.53	CALL AUTH CENTER
\$X.04	PICK UP CARD	\$X.54	EXPIRED CARD
\$X.05	DECLINED	\$X.55	INCORRECT PIN
\$X.06	APPROVAL/CALL AUTH	\$X.56	APPROVAL
\$X.07	PICK UP CARD	\$X.57	DECLINED
\$X.08	APPROVAL	\$X.58	SERV NOT ALLOWED
\$X.09	CALL AUTH CENTER	\$X.59	APPROVAL
\$X.10	PARTIAL APPROVAL (1)	\$X.60	APPROVAL
\$X.11	APPROVAL	\$X.61	EXCEEDS AMT LMT
\$X.12	CALL AUTH CENTER	\$X.62	DECLINED
\$X.13	AMOUNT ERROR	\$X.63	DECLINED
\$X.14	INVALID CARD	\$X.64	APPROVAL
\$X.15	INVALID CARD	\$X.65	DECLINED
\$X.16	APPROVAL	\$X.66	APPROVAL
\$X.17	APPROVAL	\$X.67	APPROVAL
\$X.18	APPROVAL	\$X.68	APPROVAL/CALL AUTH
\$X.19	PLEASE RETRY5270	\$X.69	APPROVAL
\$X.20	APPROVAL	\$X.70	APPROVAL
\$X.21	DECLINED	\$X.71	APPROVAL
\$X.22	APPROVAL	\$X.72	DECLINED/APPROVAL
\$X.23	APPROVAL (2)	\$X.73	APPROVAL/CALL AUTH
\$X.24	APPROVAL	\$X.74	DECLINED/APPROVAL
\$X.25	CALL AUTH CENTER	\$X.75	DECLINED
\$X.26	APPROVAL/CALL AUTH	\$X.76	REC NOT FOUND/DL ERR
\$X.27	APPROVAL	\$X.77	DECLINED/CALL AUTH
\$X.28	CALL AUTH CENTER	\$X.78	INVALID CARD
\$X.29	APPROVAL	\$X.79	APPROVAL
\$X.30	CALL AUTH CENTER	\$X.80	PLEASE RETRY5305
\$X.31	APPROVAL	\$X.81	SERV NOT ALLOWED
\$X.32	APPROVAL	\$X.82	CALL AUTH CENTER
\$X.33	EXPIRED CARD	\$X.83	INCORRECT PIN
\$X.34	APPROVAL	\$X.84	CALL AUTH CENTER
\$X.35	APPROVAL	\$X.85	APPROVAL
\$X.36	APPROVAL	\$X.86	APPROVAL/CALL REF:
\$X.37	APPROVAL	\$X.87	APPROVAL
\$X.38	APPROVAL	\$X.88	DECLINED
\$X.39	APPROVAL/CALL AUTH	\$X.89	DECLINED
\$X.40	APPROVAL	\$X.90	CALL AUTH CENTER
\$X.41	PICK UP CARD	\$X.91	PLEASE RETRY5270
\$X.42	APPROVAL	\$X.92	PLEASE RETRY5270
\$X.43	PICK UP CARD	\$X.93	CALL AUTH CENTER
\$X.44	APPROVAL	\$X.94	APPROVAL/RETRY
\$X.45	APPROVAL	\$X.95	APPROVAL
\$X.46	APPROVAL	\$X.96	CALL AUTH CENTER
\$X.47	APPROVAL	\$X.97	CALL AUTH CENTER
\$X.48	APPROVAL	\$X.98	DECLINED (3)
\$X.49	APPROVAL	\$X.99	APPROVAL/DECLINED (4)

*** Different responses MAY be returned on chip based tests that process thru BACKUP SWITCH. This switch simulates static EMV tag values which the POS may decline.**

All responses are based on US Dollar (USD) merchant setups - merchant setups with other currencies may have different response values

Response may vary based on last digit of account
Value changes based on last digit of card being odd or even

Transaction response includes Association Token information (Block 8F data)

Encompass Based Response Codes	
AA	Approved Transaction (Auths / Reversals)
AP	Approved Transaction for a Partial Amount
NC	Decline (Pick Up Card)
ND	Decline (Hard or Soft)
NF	Decline (Record Not Found)
NR	Decline (Referral Message)
N7	Decline (For CVV2 Only)

(1) Response for partial authorization - using \$X.10 amount with the Partial Auth Indicator value of "1" will return an approval for an amount of \$X.05 (your dollar amount less five cents. Example: \$10.10 amount with the Partial Auth Indicator = 1 will return an approval for \$10.05
Partial Auth Indicator = 0 will return declines.
See below regarding Account Balance value.

(2) \$X.23 Authorizations will receive an APPROVAL, however \$X.23 reversals/voids will DECLINE (Encompass Spec only)

(3) \$X.98 will return VISA Tran ID as Zeroes
Example: PS2000_Data will be N000000000000000 **

(4) \$99.99 will return CALL AUTH CENTER

ACCOUNT BALANCE	
Partial Auth Indicator = 0	will return the requested amount value as the Account Balance (\$X.XX = \$X.XX)
Partial Auth Indicator = 1	cents amount = \$X.10 and approved amount equals \$X.05, the Account Balance will be blank.
Declines and other responses	will return the requested amount value as the Account Balance.

BACKUP SWITCH			
AVS RESPONSES			
VISA/MC/AMEX		Discover	
Last Digit of Card	AVS Response	Last Digit of Card	AVS Response
0	X	0	Y
1	Y	1	X
2	A	2	A
3	W	3	Z
4	Z	4	W
5	D	5	N
6	U	6	U
7	R	7	R
8	S	8	S
9	G	9	G

- AVS Response Value Descriptions**
- A Address (street #) matches and ZIP does not
 - D Street address and Postal Code match (international issuer)
 - G Card issued by non-US issuer that doesn't participate in AVS System
 - N NO Match on Address (street #) or ZIP
 - R Retry, System unavailable or Timed out
 - S Service not supported by issuer
 - U Address information is unavailable (domestic issuer)
 - W 9 digit ZIP matches, Address (street #) does not
 - X Exact AVS match
 - Y Address (street #) and 5 digit ZIP match
 - Z 5 digit ZIP matches, Address (street #) does not

NO OTHER AVS VALUES ARE SIMULATED THRU THE BACKUP SWITCH.

Expected CVV2/CVC2/CID Responses - Only when the BACKUP switch is used - Approval Code = CVI***											
CVV2 CVC2 CID Indicator	Indicator Desc.	VISA		MASTERCARD		DISCOVER		UNION PAY		AMEX **	
		Last digit controls response		Third digit controls response		Third digit controls response		Third digit controls response		Last digit controls response	
		Digit	Response	Digit	Response	Digit	Response	Digit	Response	Digit	Response
0	Bypassed	N/A	{BLANK}	N/A	{BLANK}	N/A	{BLANK}	N/A	{BLANK}	N/A	{BLANK}
1	Present	xx0	M	xx0	M	xx0	M	xxx0	M	xxx0	M
1	Present	xx1	M	xx1	M	xx1	M	xxx1	M	xxx1	M
1	Present	xx2	N	xx2	N	xx2	N	xxx2	N	xxx2	N
1	Present	xx3	U	xx3	U	xx3	U	xxx3	U	xxx3	P
1	Present	xx4	P	xx4	U	xx4	P	xxx4	P	xxx4	{BLANK}
1	Present	xx5	M	xx5	M	xx5	M	xxx5	M	xxx5	M
1	Present	xx6	N	xx6	N	xx6	N	xxx6	N	xxx6	N
1	Present	xx7	M	xx7	M	xx7	M	xxx7	M	xxx7	M
1	Present	xx8	N	xx8	N	xx8	N	xxx8	N	xxx8	N
1	Present	xx9	M	xx9	M	xx9	M	xxx9	M	xxx9	M
1	Present	xx *	N	xx *	M	xx *	M	xx *	M	xx *	M
2	Illegible	N/A	P	N/A	{BLANK}	N/A	{BLANK}	N/A	{BLANK}	N/A	{BLANK}
9	Not Present	N/A	S	N/A	{BLANK}	N/A	S	N/A	{BLANK}	N/A	{BLANK}

* This two digit value sample has the third (and any fourth digit) as a blank space

** AMEX Keyed Transactions Only - NO CID response currently on Swiped or Proximity entry

NOTE: VISA no longer allows processing of CVV2 values on card present requests. All submitted CVV2 data will be dropped from what is sent to VISA on chip, tap, swipe or keyed, card present requests and no CVV2 response will be returned - Response = <blank>

CVV2 Response Value Descriptions	
M	Match
N	No match
P	Not Processed
S	Issuer indicates that CVV2 data should be present on the card, but the merchant indicated there is no CVV2 data present on the card
U	Issuer not certified or registered to process card verification

NOTE – Due to format requirements in different specifications, the descriptor of “Last Digit” vs. “Third Digit” is used to define how developers and testers can control responses within the test environment – this does NOT reflect card issuer response controls in production. Presentment of ANY alpha characters in CVV2 values results in a test simulator response - P – Not processed



ELAVON Test Host Pre-Programmed Responses Debit Networks

INTERLINK & MAESTRO DEBIT NETWORKS - ELAVON STP *

\$X.00	APPROVAL	\$X.50	APPROVAL
\$X.01	APPROVAL	\$X.51	DECLINED
\$X.02	APPROVAL	\$X.52	APPROVAL
\$X.03	APPROVAL	\$X.53	APPROVAL
\$X.04	APPROVAL	\$X.54	EXPIRED CARD
\$X.05	APPROVAL	\$X.55	INCORRECT PIN
\$X.06	APPROVAL	\$X.56	APPROVAL
\$X.07	DECLINED	\$X.57	DECLINED
\$X.08	APPROVAL	\$X.58	SERV NOT ALLOWED
\$X.09	APPROVAL	\$X.59	INVALID CARD
\$X.10	APPROVAL	\$X.60	APPROVAL
\$X.11	APPROVAL	\$X.61	DECLINED
\$X.12	APPROVAL	\$X.62	DECLINED
\$X.13	AMOUNT ERROR	\$X.63	DECLINED
\$X.14	PARTIAL APPROVAL ①	\$X.64	APPROVAL
\$X.15	APPROVAL	\$X.65	DECLINED
\$X.16	APPROVAL	\$X.66	APPROVAL
\$X.17	APPROVAL	\$X.67	APPROVAL
\$X.18	APPROVAL	\$X.68	PARTIAL APPROVAL ①
\$X.19	DECLINED	\$X.69	APPROVAL
\$X.20	APPROVAL	\$X.70	APPROVAL
\$X.21	DECLINED	\$X.71	APPROVAL
\$X.22	APPROVAL	\$X.72	DECLINED
\$X.23	APPROVAL ②	\$X.73	APPROVAL
\$X.24	APPROVAL	\$X.74	DECLINED
\$X.25	APPROVAL	\$X.75	DECLINED
\$X.26	APPROVAL	\$X.76	DECLINED
\$X.27	APPROVAL	\$X.77	DECLINED
\$X.28	PARTIAL APPROVAL ①	\$X.78	INVALID CARD
\$X.29	APPROVAL	\$X.79	APPROVAL
\$X.30	APPROVAL	\$X.80	APPROVAL
\$X.31	APPROVAL	\$X.81	DECLINED
\$X.32	APPROVAL	\$X.82	APPROVAL
\$X.33	EXPIRED CARD	\$X.83	DECLINED
\$X.34	APPROVAL	\$X.84	APPROVAL
\$X.35	APPROVAL	\$X.85	APPROVAL
\$X.36	APPROVAL	\$X.86	APPROVAL
\$X.37	APPROVAL	\$X.87	DECLINED
\$X.38	APPROVAL	\$X.88	DECLINED
\$X.39	APPROVAL	\$X.89	DECLINED
\$X.40	APPROVAL	\$X.90	APPROVAL
\$X.41	PICK UP CARD	\$X.91	PLEASE RETRY5305
\$X.42	PARTIAL APPROVAL ①	\$X.92	PLEASE RETRY5270
\$X.43	PICK UP CARD	\$X.93	APPROVAL
\$X.44	APPROVAL	\$X.94	APPROVAL
\$X.45	DECLINED	\$X.95	PARTIAL APPROVAL ①
\$X.46	APPROVAL	\$X.96	CALL AUTH CENTER
\$X.47	APPROVAL	\$X.97	APPROVAL
\$X.48	APPROVAL	\$X.98	APPROVAL
\$X.49	APPROVAL	\$X.99	APPROVAL

INTERLINK & MAESTRO DEBIT NETWORKS - ELAVON STP *

*	<p>All responses are based on requests processing thru the Interlink network or Maestro network switches.</p> <p>Debit Network ID = INTERLINK = IL / Maestro = MS</p> <p>Otherwise, see Debit - ELAN (NON-STP)</p> <p>EMV Test Case controls may override these responses.</p>
<p>Interlink (IL) & Maestro (MS) Responses</p> <p>IL & MS Debit Network response times are randomized at the simulator for delay of between 1 millisecond to 4500 milliseconds (.001 seconds to 4.5 seconds)</p>	
<p>Encompass Based Response Codes</p>	
AA	Approved Transaction (Auths / Reversals)
AP	Approved Transaction for a Partial Amount
NC	Decline (Pick Up Card)
ND	Decline (Hard or Soft)
NF	Decline (Record Not Found)
NR	Decline (Referral Message)
①	<p>responses for partial authorization - purchase and return</p> <p>Partial Auth Indicator value = "1":</p> <p>\$xx.14 - approval = \$0.07</p> <p>\$xx.28 - approval = \$0.14</p> <p>\$xx.42 - approval = \$0.12</p> <p>\$xx.68 - approval = \$0.23</p> <p>\$xx.95 - approval = \$0.27</p> <p>Partial Auth Indicator = 0 will return declines.</p>
②	\$X.23 Authorizations will receive an APPROVAL, however \$X.23 reversals/voids will DECLINE (Encompass Spec only)
③	(Reserved)
④	(Reserved)

DEBIT - ELAN (NON-STP*)

\$X.00	APPROVAL	\$X.50	CALL AUTH CENTER
\$X.01	APPROVAL	\$X.51	REQ EXCEEDS BAL
\$X.02	APPROVAL	\$X.52	CALL AUTH CENTER
\$X.03	APPROVAL	\$X.53	CALL AUTH CENTER
\$X.04	APPROVAL	\$X.54	EXPIRED CARD
\$X.05	APPROVAL	\$X.55	INCORRECT PIN
\$X.06	CALL AUTH CENTER	\$X.56	INVALID CARD
\$X.07	DECLINED	\$X.57	DECLINED
\$X.08	APPROVAL	\$X.58	SERV NOT ALLOWED
\$X.09	APPROVAL	\$X.59	INVALID CARD
\$X.10	PARTIAL APPROVAL ①	\$X.60	CALL AUTH CENTER
\$X.11	APPROVAL	\$X.61	EXCEEDS AMT LMT
\$X.12	SERV NOT ALLOWED	\$X.62	DECLINED
\$X.13	AMOUNT ERROR	\$X.63	DECLINED
\$X.14	INVALID CARD	\$X.64	CALL AUTH CENTER
\$X.15	APPROVAL	\$X.65	REQ EXCEEDS BAL
\$X.16	APPROVAL	\$X.66	CALL AUTH CENTER
\$X.17	CALL AUTH CENTER	\$X.67	CALL AUTH CENTER
\$X.18	CALL AUTH CENTER	\$X.68	PLEASE RETRY5270
\$X.19	PLEASE RETRY5270	\$X.69	CALL AUTH CENTER
\$X.20	CALL AUTH CENTER	\$X.70	NETWORK ERROR 70
\$X.21	DECLINED	\$X.71	NETWORK ERROR 71
\$X.22	CALL AUTH CENTER	\$X.72	REQ EXCEEDS BAL
\$X.23	CALL AUTH CENTER	\$X.73	NETWORK ERROR 73
\$X.24	CALL AUTH CENTER	\$X.74	NETWORK ERROR 74
\$X.25	CALL AUTH CENTER	\$X.75	INCORRECT PIN
\$X.26	CALL AUTH CENTER	\$X.76	APPROVAL
\$X.27	CALL AUTH CENTER	\$X.77	APPROVAL
\$X.28	CALL AUTH CENTER	\$X.78	APPROVAL
\$X.29	CALL AUTH CENTER	\$X.79	APPROVAL
\$X.30	CALL AUTH CENTER	\$X.80	APPROVAL
\$X.31	PLEASE RETRY5270	\$X.81	APPROVAL
\$X.32	CALL AUTH CENTER	\$X.82	CALL AUTH CENTER
\$X.33	EXPIRED CARD	\$X.83	DECLINED
\$X.34	DECLINED	\$X.84	DECLINED
\$X.35	DECLINED	\$X.85	DECLINED
\$X.36	DECLINED	\$X.86	DECLINED
\$X.37	DECLINED	\$X.87	DECLINED
\$X.38	INCORRECT PIN	\$X.88	DECLINED
\$X.39	DECLINED	\$X.89	DECLINED
\$X.40	CALL AUTH CENTER	\$X.90	CALL AUTH CENTER
\$X.41	DECLINED	\$X.91	PLEASE RETRY5270
\$X.42	CALL AUTH CENTER	\$X.92	PLEASE RETRY5270
\$X.43	DECLINED	\$X.93	CALL AUTH CENTER
\$X.44	CALL AUTH CENTER	\$X.94	PLEASE RETRY5270
\$X.45	CALL AUTH CENTER	\$X.95	APPROVAL
\$X.46	CALL AUTH CENTER	\$X.96	CALL AUTH CENTER
\$X.47	CALL AUTH CENTER	\$X.97	CALL AUTH CENTER
\$X.48	CALL AUTH CENTER	\$X.98	PLEASE RETRY5270
\$X.49	CALL AUTH CENTER	\$X.99	NETWORK ERROR 70

DEBIT - ELAN (NON-STP*)

*	<p>Debit - Elan switch does not allow viewing of the network processing on the Elavon STP website.</p> <p>Debit - Elan switch simulates static EMV tag values, which the POS may not accept, potentially causing Approvals to be refused (Declined).</p>
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<p>All responses are based on US Dollar (USD) merchant setups - merchant setups with other currencies may have different response values</p> <p>All card ending values are expected to return the same responses, regardless of odd/even</p>	
<p>Encompass Based Response Codes</p>	
AA	Approved Transaction (Auths / Reversals)
AP	Approved Transaction for a Partial Amount
NC	Decline (Pick Up Card)
ND	Decline (Hard or Soft)
NF	Decline (Record Not Found)
NR	Decline (Referral Message)
①	<p>Response for partial authorization - using \$X.10 amount with the Partial Auth Indicator value of "1" will return an approval for an amount of \$X.05 (your dollar amount less five cents. Example: \$10.10 amount with the Partial Auth Indicator = 1 will return an approval for \$10.05</p> <p>Partial Auth Indicator = 0 will return declines.</p>