

Cash Withdraw Test Cases

Test Case Number	Case description	Card & Card Reader	PIN	Account (from)	Account (to)	Amount	Sufficient Funds (to complete transaction)	Sufficient Money (in ATM)	Print Receipt	Other
2.1a	Normal flow - minimum \$	valid	valid	valid	n/a	valid	Yes	Yes	valid	
2.1b	Normal flow - maximum \$	valid	valid	valid	n/a	valid	Yes	Yes	valid	
2.1c	Normal flow - select pre-defined amount	valid	valid	valid	n/a	valid	Yes	Yes	valid	
2.1d	Normal flow - custom amount > min. and < max.	valid	valid	valid	n/a	valid	Yes	Yes	valid	
2.2a	invalid card - stolen	invalid	valid	valid	n/a	valid	Yes	Yes	valid	
2.2b	invalid card - can't read	invalid	valid	valid	n/a	valid	Yes	Yes	valid	
2.2c	invalid card - wrong card type	invalid	valid	valid	n/a	valid	Yes	Yes	valid	
2.3	ATM out of money	valid	valid	valid	n/a	valid	Yes	No	valid	
2.4a	Wrong PIN try one, two	valid	Invalid	valid	n/a	valid	Yes	Yes	valid	
2.4b	Wrong PIN try three	valid	Invalid	valid	n/a	valid	Yes	Yes	valid	
2.5a	no account (connected to card)	valid	valid	Invalid	n/a	valid	Yes	Yes	valid	
2.5b	invalid account number	valid	valid	Invalid	n/a	valid	Yes	Yes	valid	
2.6	wrong account - does not exist	valid	valid	Invalid	n/a	valid	Yes	Yes	valid	
2.7a	wrong amount - not even multiple of \$20	valid	valid	valid	n/a	Invalid	Yes	Yes	valid	
2.7b	wrong amount - greater than maximum \$ permitted	valid	valid	valid	n/a	Invalid	Yes	Yes	valid	
2.7c	wrong amount - less than minimum \$ permitted	valid	valid	valid	n/a	Invalid	Yes	No	valid	
2.7d	wrong amount - greater than daily maximum	valid	valid	valid	n/a	Invalid	Yes	No	valid	
2.7e	wrong amount - Dollars and Cents entered / tried	valid	valid	valid	n/a	Invalid	Yes	No	valid	
2.8	no contact with host	valid	valid	valid	n/a	valid	Yes	Yes	valid	No connection
2.9	link lost during transaction	valid	valid	valid	n/a	valid	Yes	Yes	valid	disconnect during transaction
2.10	almost out of money	valid	valid	valid	n/a	valid	Yes	No	valid	

Test Case Number	Case description	Card & Card Reader	PIN	Account (from)	Account (to)	Amount	Sufficient Funds (to complete transaction)	Sufficient Money (in ATM)	Print Receipt	Other
2.11a	Error dispensing - Unacceptable bill	valid	valid	valid	n/a	valid	Yes	Yes	valid	Money Reader
2.11b	Error dispensing - stuck bill	valid	valid	valid	n/a	valid	Yes	Yes	valid	Money Reader
2.11c	Error dispensing - All remaining bills unacceptable	valid	valid	valid	n/a	valid	Yes	Yes	valid	Money Reader
2.12	card stuck in reader during read	Invalid	valid	valid	n/a	valid	Yes	Yes	valid	
2.12	card stuck in reader during eject	Invalid	valid	valid	n/a	valid	Yes	Yes	valid	
2.13	“tilt”	valid	valid	valid	n/a	valid	Yes	Yes	valid	ATM Sensors
2.14	Quit	valid	valid	valid	n/a	valid	Yes	Yes	valid	
2.15	Quit during transaction	valid	valid	valid	n/a	valid	Yes	Yes	valid	
2.16	power outage	valid	valid	valid	n/a	valid	Yes	Yes	valid	
2.17	Insufficient funds	valid	valid	valid	n/a	valid	No	Yes	valid	
2.18a	Money Not removed, 30 seconds	valid	valid	valid	n/a	valid	Yes	Yes	valid	
2.18b	Money Not removed, 55 seconds	valid	valid	valid	n/a	valid	Yes	Yes	valid	
2.19a	Card not removed, 30 seconds	valid	valid	valid	n/a	valid	Yes	Yes	valid	
2.19b	Card not removed, 55 seconds	valid	valid	valid	n/a	valid	Yes	Yes	valid	
2.20a	no reply from user, 30 seconds	valid	valid	valid	n/a	valid	Yes	Yes	valid	
2.20b	no reply from user, 55 seconds	valid	valid	valid	n/a	valid	Yes	Yes	valid	
2.21	Log Full	valid	valid	valid	n/a	valid	Yes	Yes	valid	System outage
2.22	Internal Error	valid	valid	valid	n/a	valid	Yes	Yes	valid	
2.xx	Out of Paper	valid	valid	valid	n/a	valid	Yes	n/a	Invalid	

Transfer Funds test cases

Test Case Number	Case description	Card & Card Reader	PIN	Account (from)	Account (to)	Amount	Sufficient Funds (to complete transaction)	Sufficient Money (in ATM)	Print Receipt	Other
2.1a	Normal flow - minimum \$	valid	valid	valid	valid	valid	Yes	n/a	valid	
2.1b	Normal flow - maximum \$	valid	valid	valid	valid	valid	Yes	n/a	valid	
2.1c	Normal flow - select pre-defined amount	valid	valid	valid	valid	valid	Yes	n/a	valid	
2.1d	Normal flow - custom amount > min. and < max.	valid	valid	valid	valid	valid	Yes	n/a	valid	
2.2a	invalid card - can't read	invalid	valid	valid	valid	valid	Yes	n/a	valid	
2.2b	invalid card - wrong card type	invalid	valid	valid	valid	valid	Yes	n/a	valid	
2.3a	Wrong PIN try one, two	valid	Invalid	valid	valid	valid	Yes	n/a	valid	
2.3b	Wrong PIN try three	valid	Invalid	valid	valid	valid	Yes	n/a	valid	
2.4	Insufficient funds	valid	valid	valid	valid	valid	No	n/a	valid	
2.5	\$ greater than daily amount	valid	valid	valid	valid	invalid	Yes	n/a	valid	
2.6a	no contact with bank consortium	valid	valid	valid	valid	valid	Yes	n/a	valid	No connection
2.6b	lost contact with bank consortium	valid	valid	valid	valid	valid	Yes	n/a	valid	No connection
2.7a	no contact with bank	valid	valid	valid	valid	valid	Yes	n/a	valid	No connection
2.7b	lost contact with bank	valid	valid	valid	valid	valid	Yes	n/a	valid	No connection
2.8	invalid card - stolen	invalid	valid	valid	valid	valid	Yes	n/a	valid	
2.9a	no from account (connected to card)	valid	valid	Invalid	valid	valid	Yes	n/a	valid	
2.9b	invalid account number	valid	valid	Invalid	valid	valid	Yes	n/a	valid	
2.10a	no to account (connected to card)	valid	valid	valid	Invalid	valid	Yes	n/a	valid	
2.10b	invalid account number	valid	valid	valid	Invalid	valid	Yes	n/a	valid	
2.11	no confirmation	valid	valid	valid	valid	valid	Yes	n/a	valid	connection is lost
2.12	card stuck in reader during read	Invalid	valid	valid	valid	valid	Yes	n/a	valid	
2.12	card stuck in reader during eject	Invalid	valid	valid	valid	valid	Yes	n/a	valid	

Test Case Number	Case description	Card & Card Reader	PIN	Account (from)	Account (to)	Amount	Sufficient Funds (to complete transaction)	Sufficient Money (in ATM)	Print Receipt	Other
2.13	Out of Paper	valid	valid	valid	valid	valid	Yes	n/a	Invalid	
2.14	ATM out of money	valid	valid	valid	valid	valid	Yes	No	valid	
2.15a	Card not removed, 30 seconds	valid	valid	valid	n/a	valid	Yes	n/a	valid	
2.15b	Card not removed, 55 seconds	valid	valid	valid	n/a	valid	Yes	n/a	valid	
2.xx	Quit	valid	valid	valid	n/a	valid	Yes	n/a	valid	
2.xx	Quit during transaction	valid	valid	valid	n/a	valid	Yes	n/a	valid	
2.xx	power outage	valid	valid	valid	n/a	valid	Yes	n/a	valid	
2.xx	no reply from user, 30 seconds	valid	valid	valid	n/a	valid	Yes	n/a	valid	
2.xx	no reply from user, 55 seconds	valid	valid	valid	n/a	valid	Yes	n/a	valid	
2.xx	Log Full	valid	valid	valid	n/a	valid	Yes	n/a	valid	System outage
2.xx	Internal Error	valid	valid	valid	n/a	valid	Yes	n/a	valid	