1 EMVerify

	executable				bank_accepts			
Mastercard_CDA_NoPIN_High	falsified steps 47	47.6	falsified steps 48	49.2	×	-	×	-
Mastercard_CDA_NoPIN_Low	verified steps 30	55.2	verified steps 28	64.1	verified steps 2897	719.9	verified steps 3629	947.6
Mastercard_CDA_OnlinePIN_High	verified steps 30	57.7	verified steps 29	71.4	verified steps 7145	1698.0	verified steps 9331	2399.8
Mastercard_CDA_OnlinePIN_Low	verified steps 30	51.6	verified steps 28	61.3	verified steps 2905	704.3	verified steps 3637	956.9
Mastercard_DDA_NoPIN_High	falsified steps 49	45.7	falsified steps 50	46.9	×	-	×	-
Mastercard_DDA_NoPIN_Low	verified steps 29	51.8	verified steps 27	52.8	falsified steps 16	343.0	falsified steps 17	597.4
Mastercard_DDA_OnlinePIN_High	verified steps 29	56.1	verified steps 28	58.6	verified steps 4865	1027.6	verified steps 6371	1499.7
Mastercard_DDA_OnlinePIN_Low	verified steps 29	53.2	verified steps 27	57.3	falsified steps 16	346.5	falsified steps 17	605.5
Mastercard_SDA_NoPIN_High	falsified steps 45	42.1	falsified steps 46	45.0	×	-	×	-
Mastercard_SDA_NoPIN_Low	verified steps 27	51.9	verified steps 25	53.0	falsified steps 13	188.2	falsified steps 14	51.8
Mastercard_SDA_OnlinePIN_High	×	53.0	verified steps 26	54.0	verified steps 2315	505.1	verified steps 3047	722.2
Mastercard_SDA_OnlinePIN_Low	verified steps 27	49.1	verified steps 25	53.6	falsified steps 13	195.7	falsified steps 14	49.8
Visa_DDA_High	verified steps 29	52.1	verified steps 29	58.8	verified steps 5617	932.4	verified steps 5657	993.6
Visa_DDA_Low	verified steps 28	52.9	verified steps 28	59.4	falsified steps 17	1300.4	falsified steps 18	882.3
Visa_DDA_Low_Fix	verified steps 28	65.6	verified steps 28	69.7	verified steps 3710	735.2	verified steps 3728	786.6
Visa_EMV_High	verified steps 22	48.0	verified steps 23	54.0	verified steps 308	68.3	verified steps 356	72.9
Visa_EMV_Low	verified steps 22	47.2	verified steps 23	52.9	verified steps 210	57.8	verified steps 242	66.6

	auth_to_terminal_minimal				auth_to_terminal			
Mastercard_CDA_NoPIN_High	×	-	×	-	×	-	×	-
Mastercard_CDA_NoPIN_Low	×	3602.5	×	3602.2	×	3601.2	×	3600.6
Mastercard_CDA_OnlinePIN_High	×	3602.4	×	3602.2	×	3600.6	×	3600.8
Mastercard_CDA_OnlinePIN_Low	×	3602.3	×	3601.9	×	3601.2	×	3600.6
Mastercard_DDA_NoPIN_High	×	-	×	-	×	-	×	-
Mastercard_DDA_NoPIN_Low	×	3602.8	falsified 13 steps	240.2	×	-	×	-
Mastercard_DDA_OnlinePIN_High	×	3602.9	×	3602.8	×	3601.3	×	3601.6
Mastercard_DDA_OnlinePIN_Low	×	3602.8	falsified 13 steps	252.0	×	-	×	-
Mastercard_SDA_NoPIN_High	×	-	×	-	×	-	×	-
Mastercard_SDA_NoPIN_Low	×	3602.8	falsified 10 steps	545.6	×	-	×	-
Mastercard_SDA_OnlinePIN_High	×	3602.8	×	3603.0	×	3602.6	×	3602.7
Mastercard_SDA_OnlinePIN_Low	×	3602.9	falsified 10 steps	542.3	×	-	×	-
Visa_DDA_High	×	3602.8	×	3602.7	×	3602.6	×	3602.6
Visa_DDA_Low	×	3603.1	falsified 14 steps	943.5	×	-	×	-
Visa_DDA_Low_Fix	×	3602.8	×	3602.9	×	3602.9	×	3602.8
Visa_EMV_High	falsified 11 steps	77.8	falsified 11 steps	85.4	×	-	×	-
Visa_EMV_Low	falsified 11 steps	76.0	falsified 11 steps	80.3	×	-	×	-

	auth_to_bank_minimal				auth_to_bank			
Mastercard_CDA_NoPIN_High	×	-	×	-	×	-	×	-
Mastercard_CDA_NoPIN_Low	verified 141 steps	64.0	verified 147 steps	67.8	verified 2818 steps	623.2	verified 612 steps	173.5
Mastercard_CDA_OnlinePIN_High	verified 221 steps	75.6	verified 260 steps	84.8	verified 3566 steps	809.3	verified 1086 steps	295.4
Mastercard_CDA_OnlinePIN_Low	verified 141 steps	63.2	verified 147 steps	64.8	verified 2818 steps	608.3	verified 612 steps	167.4
Mastercard_DDA_NoPIN_High	×	-	×	-	×	-	×	-
Mastercard_DDA_NoPIN_Low	verified 137 steps	60.7	verified 143 steps	63.9	verified 2912 steps	491.5	verified 666 steps	159.2
Mastercard_DDA_OnlinePIN_High	verified 203 steps	69.8	verified 242 steps	77.5	verified 3372 steps	632.5	verified 1116 steps	265.5
Mastercard_DDA_OnlinePIN_Low	verified 137 steps	60.2	verified 143 steps	67.1	verified 2912 steps	495.2	verified 666 steps	155.1
Mastercard_SDA_NoPIN_High	×	-	×	-	×	-	×	-
Mastercard_SDA_NoPIN_Low	verified 102 steps	57.1	verified 108 steps	62.5	verified 1377 steps	283.5	verified 363 steps	103.3
Mastercard_SDA_OnlinePIN_High	verified 150 steps	62.6	verified 183 steps	69.9	verified 1688 steps	354.2	verified 585 steps	153.4
Mastercard_SDA_OnlinePIN_Low	verified 102 steps	55.0	verified 108 steps	60.1	verified 1377 steps	283.0	verified 363 steps	98.6
Visa_DDA_High	verified 205 steps	70.2	verified 205 steps	73.9	verified 953 steps	166.9	verified 953 steps	182.5
Visa_DDA_Low	verified 337 steps	84.9	verified 337 steps	87.6	verified 1922 steps	305.7	verified 1922 steps	337.2
Visa_DDA_Low_Fix	verified 310 steps	94.0	verified 310 steps	101.5	verified 1382 steps	283.9	verified 1382 steps	309.2
Visa_EMV_High	falsified 11 steps	54.1	falsified 11 steps	60.0	×	-	×	-
Visa_EMV_Low	falsified 11 steps	61.3	falsified 11 steps	66.2	×	-	×	-

	secrecy_MK				secrecy_privkCard			
Mastercard_CDA_NoPIN_High	verified steps	12	47.2	verified steps	12	46.6	verified steps	13	44.8	verified steps	14	51.4
Mastercard_CDA_NoPIN_Low	verified steps	12	44.1	verified steps	12	49.8	verified steps	13	44.5	verified steps	14	47.6
Mastercard_CDA_OnlinePIN_High	verified steps	12	45.4	verified steps	12	49.5	verified steps	13	47.9	verified steps	14	50.5
Mastercard_CDA_OnlinePIN_Low	verified steps	12	48.1	verified steps	12	51.5	verified steps	13	47.5	verified steps	14	46.1
Mastercard_DDA_NoPIN_High	verified steps	12	47.1	verified steps	12	49.8	verified steps	13	45.0	verified steps	14	49.1
Mastercard_DDA_NoPIN_Low	verified steps	12	43.9	verified steps	12	51.2	verified steps	13	46.2	verified steps	14	50.2
Mastercard_DDA_OnlinePIN_High	verified steps	12	47.7	verified steps	12	47.2	verified steps	13	48.3	verified steps	14	46.9
Mastercard_DDA_OnlinePIN_Low	verified steps	12	43.9	verified steps	12	50.5	verified steps	13	47.4	verified steps	14	48.7
Mastercard_SDA_NoPIN_High	verified steps	12	47.3	verified steps	12	47.8	×		-	×		-
Mastercard_SDA_NoPIN_Low	verified steps	12	44.6	verified steps	12	48.8	×		-	×		-
Mastercard_SDA_OnlinePIN_High	verified steps	12	47.5	verified steps	12	52.5	×		-	×		-
Mastercard_SDA_OnlinePIN_Low	verified steps	12	44.1	verified steps	12	48.5	×		-	×		-
Visa_DDA_High	verified steps	12	46.3	verified steps	12	49.3	verified steps	13	44.7	verified steps	14	50.6
Visa_DDA_Low	verified steps	12	43.7	verified steps	12	50.4	verified steps	13	46.4	verified steps	14	48.3
Visa_DDA_Low_Fix	verified steps	12	58.6	verified steps	12	63.2	verified steps	13	54.3	verified steps	14	61.6
Visa_EMV_High	verified steps	12	44.1	verified steps	12	48.8	verified steps	13	44.2	verified steps	14	46.2
Visa_EMV_Low	verified steps	12	43.3	verified steps	12	46.4	verified steps	13	47.6	verified steps	14	50.6

	secrecy_PIN				secrecy_PAN				
Mastercard_CDA_NoPIN_High	×	-	×	-	falsified steps	7	43.6	falsified steps	7	44.9
Mastercard_CDA_NoPIN_Low	×	-	×	-	falsified steps	7	45.4	falsified steps	7	46.9
Mastercard_CDA_OnlinePIN_High	verified steps	4	46.1	verified steps	4	46.3	falsified steps	7	43.4	falsified steps	7	45.0
Mastercard_CDA_OnlinePIN_Low	verified steps	4	46.8	verified steps	4	45.5	falsified steps	7	45.4	falsified steps	7	47.7
Mastercard_DDA_NoPIN_High	×	-	×	-	falsified steps	7	46.0	falsified steps	7	48.5
Mastercard_DDA_NoPIN_Low	×	-	×	-	falsified steps	7	45.2	falsified steps	7	46.1
Mastercard_DDA_OnlinePIN_High	verified steps	4	47.1	verified steps	4	46.8	falsified steps	7	45.2	falsified steps	7	49.4
Mastercard_DDA_OnlinePIN_Low	verified steps	4	48.1	verified steps	4	46.8	falsified steps	7	45.8	falsified steps	7	50.0
Mastercard_SDA_NoPIN_High	×	-	×	-	falsified steps	7	41.1	falsified steps	7	49.9
Mastercard_SDA_NoPIN_Low	×	-	×	-	falsified steps	7	47.7	falsified steps	7	46.1
Mastercard_SDA_OnlinePIN_High	verified steps	4	45.2	verified steps	4	46.0	falsified steps	7	43.9	falsified steps	7	45.8
Mastercard_SDA_OnlinePIN_Low	verified steps	4	46.1	verified steps	4	47.4	falsified steps	7	46.7	falsified steps	7	46.8
Visa_DDA_High	verified steps	4	44.8	verified steps	4	50.7	falsified steps	7	43.7	falsified steps	7	47.6
Visa_DDA_Low	verified steps	4	45.5	verified steps	4	49.2	falsified steps	7	46.6	falsified steps	7	48.8
Visa_DDA_Low_Fix	verified steps	4	59.9	verified steps	4	60.5	falsified steps	7	58.7	falsified steps	7	59.1
Visa_EMV_High	verified steps	4	50.3	verified steps	4	47.1	falsified steps	7	47.2	falsified steps	7	46.4
Visa_EMV_Low	verified steps	4	44.2	verified steps	4	48.3	falsified steps	7	43.7	falsified steps	7	46.7

	auth_to_terminal_minimal				auth_to_terminal				auth_to_bank_minimal			auth_to_bank		
Mastercard_SDA_NoPIN_Low	1	2	3	4	5	6	7	8	9	10				

	auth_to_bank_minimal		auth_to_bank	
Mastercard_SDA_NoPIN_Low	1	2	3	4

	secrecy_MK		secrecy_privkCard		secrecy_PIN		secrecy_PAN
	1	2	3	4	5	6	
3							