1 EMVerify Contactless

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

	auth_to_tern	ninal_minim	al		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_ban	k_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_MI	K			secrecy_privkCard		
Mastercard_CDA_NoPIN_High	verified 1 steps	2 47.2	verified 12 steps	46.6	verified 13 44.8 steps	verified 14 steps	51.4
Mastercard_CDA_NoPIN_Low	verified 1 steps	2 44.1	verified 12 steps	49.8	verified 13 44.5 steps	verified 14 steps	47.6
Mastercard_CDA_OnlinePIN_High	verified 1 steps	2 45.4	verified 12 steps	49.5	verified 13 47.9 steps	verified 14 steps	50.5
Mastercard_CDA_OnlinePIN_Low	verified 1 steps	2 48.1	verified 12 steps	51.5	verified 13 47.5 steps	verified 14 steps	46.1
Mastercard_DDA_NoPIN_High	verified 1 steps	2 47.1	verified 12 steps	49.8	verified 13 45.0 steps	verified 14 steps	49.1
Mastercard_DDA_NoPIN_Low	verified 1 steps	2 43.9	verified 12 steps	51.2	verified 13 46.2 steps	verified 14 steps	50.2
Mastercard_DDA_OnlinePIN_High	verified 1 steps	2 47.7	verified 12 steps	47.2	verified 13 48.3 steps	verified 14 steps	46.9
Mastercard_DDA_OnlinePIN_Low	verified 1 steps	2 43.9	verified 12 steps	50.5	verified 13 47.4 steps	verified 14 steps	48.7
Mastercard_SDA_NoPIN_High	verified 1 steps	2 47.3	verified 12 steps	47.8	× -	×	1
Mastercard_SDA_NoPIN_Low	verified 1 steps	2 44.6	verified 12 steps	48.8	× -	×	-
Mastercard_SDA_OnlinePIN_High	verified 1 steps	2 47.5	verified 12 steps	52.5	× -	×	1
Mastercard_SDA_OnlinePIN_Low	verified 1 steps	2 44.1	verified 12 steps	48.5		×	1
Visa_DDA_High	verified 1 steps	2 46.3	verified 12 steps	49.3	verified 13 44.7 steps	verified 14 steps	50.6
Visa_DDA_Low	verified 1 steps	2 43.7	verified 12 steps	50.4	verified 13 46.4 steps	verified 14 steps	48.3
Visa_DDA_Low_Fix	verified 1 steps	2 58.6	verified 12 steps	63.2	verified 13 54.3 steps	verified 14 steps	61.6
Visa_EMV_High	verified 1 steps	2 44.1	verified 12 steps	48.8	verified 13 44.2 steps	verified 14 steps	46.2
Visa_EMV_Low	verified 1 steps	2 43.3	verified 12 steps	46.4	verified 13 47.6 steps	verified 14 steps	50.6

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