



Fiserv
DCC EMV™ Test Card Set

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CAUTION

Multiple consecutive incorrect PIN entry attempts may result in the card being blocked. This is known as being 'PIN Blocked'.

If this occurs, it will no longer be possible to enter an Offline PIN which will cause all future transactions to be declined.

***** It is not possible to unblock a 'PIN Blocked' card *****

Chapter 1 - Fiserv DCC EMV Test Card Set Profiles

The Fiserv DCC (Dynamic Currency Conversion) EMV Test Card Set contains 7 cards featuring multiple Issuer Country and Currency codes and is intended for extended Dynamic Currency Conversion testing.

	Card 01 – YEN	Card 02 – WON	Card 03 – AUD
Brand	Mastercard	Visa	Visa
Type	Credit	Credit	Credit
AID	A0000000041010	A0000000031010 A0000000033010	A0000000031010 A0000000033010
PAN	5208 7900 0000 0005	4912 1800 0000 0009	4072 6400 0000 0008
Expiry Date	12/2025	12/2025	12/2025
Service Code	201	201	201
Interface	Contact, Contactless, MSR	Contact, Contactless, MSR	Contact, MSR
CVM	See card definition	See card definition	See card definition
Approval Amount	\$20.00	\$10.00	\$10.00
Issuer Country Code	392 Japan (JPN)	410 S. Korea (KOR)	036 Australia (AUS)
Application Currency Code	392	410	036
Currency Desc.	Japanese Yen (JPY)	S. Korean Won (WON)	Australian Dollar (AUD)
Language	'en' – English	'en' – English	'en' – English
Card Version	v2.00	v2.00	v2.00

	Card 04 – CLP	Card 05 - COP	Card 06 – CHF
Brand	Mastercard	Visa	Mastercard
Type	Credit	Credit	Credit
AID	A0000000041010 A0000000042060	A0000000031010	A0000000041010 A0000000042060
PAN	5281 8000 0000 0002	4004 8900 0000 0002	5218 4100 0000 0008
Expiry Date	12/2025	12/2025	12/2025
Service Code	201	201	201
Interface	Contact, MSR	Contact, Contactless, MSR	Contact, Contactless, MSR
CVM	See card definition	See card definition	See card definition
Approval Amount	\$20.00	\$10.00	\$20.00
Issuer Country Code	152 Chile (CHL)	170 Colombia (COL)	756 Switzerland (CHE)
Application Currency Code	152	170	756
Currency Desc.	Chilean Peso (CLP)	Colombian Peso (COP)	Swiss Franc (CHF)
Language	'en' – English	'en' – English	'en' – English
Card Version	v2.00	v2.00	v2.00

	Card 07 – GBP
Brand	Maestro
Type	Credit
AID	A0000000043060
PAN	67677 4000 0000 0003
Expiry Date	12/2025
Service Code	220
Interface	Contact, Contactless, MSR
CVM	See card definition
Approval Amount	\$20.00
Issuer Country Code	826 Great Britain (GBR)
Application Currency Code	826
Currency Desc.	British Pound (GBP)
Language	'en' – English
Card Version	v2.00

1.1 Test Card 01 – Mastercard, Dual Interface, Credit, Japan, JPY

A Mastercard credit card with Issuer Country Code of ‘Japan’ and Currency Code of ‘JPY’.

The recommended transaction amount to generate a host approval is \$20.00.

1.1.1 Cardholder Verification Method List – AID (A0000000041010)

Cardholder Verification Method List ('4103 4203 5E03 1F03')			
CVM	Verification Method	Conditions	If unsuccessful
1	Offline Plaintext PIN	Terminal supports CVM type	Next CVM
2	Online PIN	Terminal supports CVM type	Next CVM
3	Signature (paper)	Terminal supports CVM type	Next CVM
4	No CVM required	Terminal supports CVM type	Fail

1.1.2 Application Tag data (Contact)

Tag	Element name	Data	v2.x
50	Application Label	4D 41 53 54 45 52 43 41 52 44 - 'MASTERCARD'	
57	Track 2 Equivalent Data	52 08 79 00 00 00 00 05 D2 51 22 01 01 23 40 91 72 02 9F	
5A	Application Primary Account Number (PAN)	52 08 79 00 00 00 00 05	
5F 20	Cardholder Name	43 41 52 44 20 30 31 2F 2D 20 59 45 4E 20 20 20 20 20 20 20 20 20 20 20 20 20 - 'CARD 01/- YEN'	
5F 24	Application Expiration Date	25 12 31	
5F 25	Application Effective Date	xx xx xx	
5F 28	Issuer Country Code	03 92 - Japan	
5F 2D	Language Preference	65 6E - 'en' (English)	
5F 30	Service Code	02 01	
5F 34	Application PAN Sequence Number	01	
82	Application Interchange Profile	18 00 BYTE 1: b7 - Offline SDA NOT supported b6 - Offline DDA NOT supported b5 - Cardholder verification supported b4 - Terminal risk mgmt to be performed b3 - Issuer authentication NOT supported via EXTERNAL AUTH command b1 - Combined DDA / GEN AC NOT supported BYTE 2: b8 - Use for Visa NOT supported b7 - Is NOT Mobile handset	
84	Dedicated File (DF) Name	A0 00 00 00 04 10 10	
87	Application Priority Indicator	01	
8C	Card Risk Management Data Object List 1 (CDOL1)	9F 02 06 9F 03 06 9F 1A 02 95 05 5F 2A 02 9A 03 9C 01 9F 37 04 9F 35 01 9F 45 02 9F 4C 08 9F 34 03 9F 21 03 9F 7C 14	
8D	Card Risk Management Data Object List 2 (CDOL2)	91 0A 8A 02 95 05 9F 37 04 9F 4C 08	
8E	Cardholder Verification Method (CVM) List	00 00 00 00 00 00 00 00 41 03 42 03 5E 03 1F 03	
8F	Certification Authority Public Key Index	FA	

Tag	Element name	Data	v2.x
90	Issuer Public Key Certificate	18 89 B9 97 E6 FC E8 4B 4A E7 AB 87 43 1C BD B3 DF 8C 1D 5A 55 A7 F6 0D 29 59 AF 3A 51 04 E7 58 83 17 ED 74 08 66 68 CF 1A 05 47 84 F7 49 3C 6D 74 7F A7 96 EC 14 D3 33 A6 8E C7 E0 08 62 95 9A 0B D0 F0 48 20 80 B7 1A C1 B7 62 5B 1B 8B 1F 35 A6 69 19 99 BA 78 F5 92 E2 3F 95 E9 96 09 D1 08 CF 1C 0E 30 8A 8B F6 4F BD E8 37 D3 CE 13 8A 50 DC 50 AF 4B 41 EE 53 D9 8A 11 B6 A8 1D DD 44 CC 43 0C 1E F3 BB 9D 1D 75 A0 2F AA 9C 81 4A FC 58	
92	Issuer Public Key Remainder	D3 52 41 07	
94	Application File Locator (AFL)	08 02 04 01 18 01 01 00 20 01 01 00	
94	Application File Locator (AFL)	08 02 04 01 18 01 01 00 20 01 01 00	
9F 07	Application Usage Control	FF 00 BYTE 1: b8 - Domestic cash trans. valid b7 - Int'l cash transactions valid b6 - Domestic goods valid b5 - International goods valid b4 - Domestic services valid b3 - International services valid b2 - ATMs valid b1 - non-ATM terminals valid BYTE 2: b8 - Domestic cashback NOT allowed b7 - International cashback NOT allowed	
9F 08	Application Version Number	00 02	
9F 0D	Issuer Action Code - Default	BC 50 BC 80 00	
9F 0E	Issuer Action Code - Denial	00 00 00 00 00	
9F 0F	Issuer Action Code - Online	BC 70 BC 98 00	
9F 10	Issuer Application Data [M/Chip Advance]	xx 10 xx xx xx xx xx xx xx xx xx xx xx xx xx xx xx xx *	
9F 11	Issuer Code Table Index	01	
9F 12	Application Preferred Name	4D 61 73 74 65 72 63 61 72 64 - 'Mastercard'	
9F 14	Counter 1 Lower Limit [Mastercard]	03	
9F 17	Personal Identification Number (PIN) Try Counter	09	
9F 1F	Track 1 Discretionary Data	30 31 32 33 34 30 39 31 37 32 30 30 30 30 30 30 30 30 30 30 30 30 30 30	
9F 23	Counter 1 Upper Limit [Mastercard]	07	
9F 26	Application Cryptogram (AC)	xx xx xx xx xx xx xx xx *	
9F 27	Cryptogram Information Data (CID)	80	
9F 32	Issuer Public Key Exponent	03	
9F 36	Application Transaction Counter (ATC)	00 06	
9F 42	Application Currency Code	03 92 - JPY	
9F 44	Application Currency Exponent	00	

Tag	Element name	Data	v2.x
9F 46	ICC Public Key Certificate	0C F9 9D 62 92 CC 97 56 EA 72 12 39 BC F9 25 3F F4 8E 69 D4 FC E4 68 5E 2E 35 63 43 41 80 07 BB 86 11 FA A3 17 7E F2 B7 39 EE 29 E2 F4 F1 D6 75 3A BC AC 45 C5 AF 89 C2 39 4B 8B 98 E6 17 E5 30 D1 FF 3E 51 B2 85 5F B4 53 5C 16 FA 2E FC 29 28 58 F6 63 82 E8 7B 84 FF 27 17 44 84 53 03 9C 62 46 8F 5D F3 DB DB 57 D1 08 D4 26 CE CD DF 9A 7F	
9F 47	ICC Public Key Exponent	03	
9F 48	ICC Public Key Remainder	46 4E 25 93 1F 9F C1 5E 0E 3D ED 4F C2 29 0E 27 70 30 89 86 FE B6 80 E9 09 64 E0 7C C1 F1 31 40 21 E4 B3 D9 BE 89 7A 8D A9 17	
9F 49	Dynamic Data Authentication Data Object List (DDOL)	9F 37 04	
9F 4A	Static Data Authentication Tag List	82	
9F 4D	Transaction Log Entry	0B 0A	
9F 4F	Transaction Log Format	9F 27 01 9F 02 06 5F 2A 02 9A 03 9F 36 02 9F 52 06 DF 3E 01 9F 21 03 9F 7C 14	
9F 5D	Application Capabilities Information [M/Chip Advance]	01 00 00	
9F 6E	Third Party Data [Mastercard]	03 92 00 00 30 30 00	
9F 70	Protected Data Envelope 1 [M/Chip Advance]	20 20	
9F 71	Protected Data Envelope 2 [M/Chip Advance]	20 20	
9F 72	Protected Data Envelope 3 [M/Chip Advance]	20 20	
9F 73	Protected Data Envelope 4 [M/Chip Advance]	20 20	
9F 74	Protected Data Envelope 5 [M/Chip Advance]	20 20	
9F 75	Unprotected Data Envelope 1 [M/Chip Advance]	20 20	
9F 76	Unprotected Data Envelope 2 [M/Chip Advance]	20 20	
9F 77	Unprotected Data Envelope 3 [M/Chip Advance]	20 20	

Tag	Element name	Data	v2.x
9F 78	Unprotected Data Envelope 4 [M/Chip Advance]	20 20	
9F 79	Unprotected Data Envelope 5 [M/Chip Advance]	20 20	
9F 7E	Application Life Cycle Data [Mastercard]	03 10 0C 12 00 09 00 00 FF 00 04 00 00 02 60 00 00 38 4A 02 11 50 35 43 44 30 37 32 20	
C3	Card Issuer Action Code (Contact) - Decline [M/Chip Advance]	00 00 00	
C4	Card Issuer Action Code (Contact) - Default [M/Chip Advance]	19 50 00	
C5	Card Issuer Action Code (Contact) - Online [M/Chip Advance]	39 FB 00	
C6	PIN Try Limit [M/Chip Advance]	09	
C7	CDOL1 Related Data Length [Mastercard]	42	
C8	CRM Country Code [Mastercard]	03 92 - JPN	
C9	Accumulator 1 Currency Code [Mastercard]	03 92 - JPY	
CA	Accumulator 1 Lower Limit [Mastercard]	00 00 00 02 00 00	
CB	Accumulator 1 Upper Limit [Mastercard]	00 00 00 04 00 00	
CD	Card Issuer Action Code (Contactless) - Default [M/Chip Advance]	00 58 00	
CE	Card Issuer Action Code (Contactless) - Online [M/Chip Advance]	00 F8 00	
CF	Card Issuer Action Code (Contactless) - Decline [M/Chip Advance]	00 00 00	
D1	Accumulator 1 Currency Conversion Table [Mastercard]	03 92 00 01 00 03 92 00 01 00 03 92 00 01 00 03 92 00 01 00 03 92 00 01 00	
D3	Additional Check Table [Mastercard]	00 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF	
D5	Application Control [M/Chip Advance]	8C 00 80 00 86 02	
D6	Default ARPC Response Code [M/Chip Advance]	00 12	
D7	Application Control [M/Chip Advance]	40 01 40 00 86 02	
D9	Application File Locator (Contactless)	08 01 01 00 10 01 01 01 18 01 01 00 20 01 02 00	
DE	Log Data Table [M/Chip Advance]	00 00 00 00 00 00 00 00 00	
DF 02	Security Limits Status (Contact) [M/Chip Advance]	00	
DF 11	Accumulator 1 Control (Contact) [M/Chip Advance]	C1	
DF 12	Accumulator 1 Control (Contactless) [M/Chip Advance]	C1	
DF 14	Accumulator 2 Control (Contact) [M/Chip Advance]	00	
DF 15	Accumulator 2 Control (Contactless) [M/Chip Advance]	00	
DF 16	Accumulator 2 Currency Code [Mastercard]	09 99	
DF 17	Accumulator 2 Currency Conversion Table [Mastercard]	09 99 00 01 00 09 99 00 01 00 09 99 00 01 00 09 99 00 01 00 09 99 00 01 00	
DF 18	Accumulator 2 Lower Limit [Mastercard]	00 00 00 00 00 00	
DF 19	Accumulator 2 Upper Limit [Mastercard]	00 00 00 00 00 00	

Tag	Element name	Data	v2.x
DF 1A	Counter 1 Control (Contact) [M/Chip Advance]	c1	
DF 1B	Counter 1 Control (Contactless) [M/Chip Advance]	c1	
DF 1D	Counter 2 Control (Contact) [M/Chip Advance]	00	
DF 1E	Counter 2 Control (Contactless) [M/Chip Advance]	00	
DF 1F	Counter 2 Lower Limit [Mastercard]	00	
DF 21	Counter 2 Upper Limit [Mastercard]	00	
DF 22	MTA CVM (Contact) [M/Chip Advance]	00 00 00 00 00 00	
DF 23	MTA CVM (Contactless) [M/Chip Advance]	00 00 00 00 00 00	
DF 24	MTA Currency Code [M/Chip Advance]	09 99	
DF 25	MTA NoCVM (Contact) [M/Chip Advance]	00 00 00 00 00 00	
DF 26	MTA NoCVM (Contactless) [M/Chip Advance]	00 00 00 00 00 00	
DF 27	Number Of Days Offline Limit [M/Chip Advance]	00 00	
DF 28	Accumulator 1 CVR Dependency Data (Contact) [M/Chip Advance]	00 00 00	
DF 29	Accumulator 1 CVR Dependency Data (Contactless) [M/Chip Advance]	00 00 00	
DF 2A	Accumulator 2 CVR Dependency Data (Contact) [M/Chip Advance]	00 00 00	
DF 2B	Accumulator 2 CVR Dependency Data (Contactless) [M/Chip Advance]	00 00 00	
DF 2C	Counter 1 CVR Dependency Data (Contact) [M/Chip Advance]	00 00 00	
DF 2D	Counter 1 CVR Dependency Data (Contactless) [M/Chip Advance]	00 00 00	
DF 2E	Counter 2 CVR Dependency Data (Contact) [M/Chip Advance]	00 00 00	
DF 2F	Counter 2 CVR Dependency Data (Contactless) [M/Chip Advance]	00 00 00	
DF 30	Interface Enabling Switch [M/Chip Advance]	03	
DF 35	Security Limits Status (Contactless) [M/Chip Advance]	00	
DF 37	Security Limits Status Common [M/Chip Advance]	00	
DF 3C	CVR Issuer Discretionary Data (Contact) [M/Chip Advance]	00	
DF 3D	CVR Issuer Discretionary Data (Contactless) [M/Chip Advance]	00	
DF 3F	Read Record Filter (Contact) [M/Chip Advance]	00 00 00 00	
DF 40	Read Record Filter (Contactless) [M/Chip Advance]	08 03 03 00	
DF 41	DS Management Control [M/Chip Advance]	20	

* Tag value changes with card usage

1.1.3 Cardholder Verification Method List – AID (A0000000041010) CL, Online

Cardholder Verification Method List ('5E03 1F03')			
CVM	Verification Method	Conditions	If unsuccessful
1	Signature (paper)	Terminal supports CVM type	Next CVM
2	No CVM required	Terminal supports CVM type	Fail

1.1.4 Application Tag data (Contactless, Online)

Tag	Element name	Data	v2.x	
50	Application Label	4D 41 53 54 45 52 43 41 52 44 - 'MASTERCARD'		
56	Track 1 Equivalent Data [Mastercard]	42 35 32 30 38 37 39 30 30 30 30 30 30 30 30 30 35 5E 20 2F 5E 32 35 31 32 32 30 31 30		
57	Track 2 Equivalent Data	52 08 79 00 00 00 00 05 D2 51 22 01 01 23 40 91 72 02 9F		
5A	Application Primary Account Number (PAN)	52 08 79 00 00 00 00 05		
5F 24	Application Expiration Date	25 12 31		
5F 25	Application Effective Date	xx xx xx		
5F 28	Issuer Country Code	03 92 - Japan		
5F 2D	Language Preference	65 6E - 'en' (English)		
5F 34	Application PAN Sequence Number	01		
82	Application Interchange Profile	18 80 BYTE 1: b7 - Offline SDA NOT supported b6 - Offline DDA NOT supported b5 - Cardholder verification supported b4 - Terminal risk mgmt to be performed b3 - Issuer authentication NOT supported via EXTERNAL AUTH command b1 - Combined DDA / GEN AC NOT supported BYTE 2: b8 - EMV Contactless supported		
84	Dedicated File (DF) Name	A0 00 00 00 04 10 10		
87	Application Priority Indicator	01		
8C	Card Risk Management Data Object List 1 (CDOL1)	9F 02 06 9F 03 06 9F 1A 02 95 05 5F 2A 02 9A 03 9C 01 9F 37 04 9F 35 01 9F 45 02 9F 4C 08 9F 34 03 9F 21 03 9F 7C 14		
8D	Card Risk Management Data Object List 2 (CDOL2)	91 0A 8A 02 95 05 9F 37 04 9F 4C 08		
8E	Cardholder Verification Method (CVM) List	00 00 00 00 00 00 00 00 5E 03 1F 03		
8F	Certification Authority Public Key Index	FA		

Tag	Element name	Data	v2.x
90	Issuer Public Key Certificate	18 89 B9 97 E6 FC E8 4B 4A E7 AB 87 43 1C BD B3 DF 8C 1D 5A 55 A7 F6 0D 29 59 AF 3A 51 04 E7 58 83 17 ED 74 08 66 68 CF 1A 05 47 84 F7 49 3C 6D 74 7F A7 96 EC 14 D3 33 A6 8E C7 E0 08 62 95 9A 0B D0 F0 48 20 80 B7 1A C1 B7 62 5B 1B 8B 1F 35 A6 69 19 99 BA 78 F5 92 E2 3F 95 E9 96 09 D1 08 CF 1C 0E 30 8A 8B F6 4F BD E8 37 D3 CE 13 8A 50 DC 50 AF 4B 41 EE 53 D9 8A 11 B6 A8 1D DD 44 CC 43 0C 1E F3 BB 9D 1D 75 A0 2F AA 9C 81 4A FC 58	
92	Issuer Public Key Remainder	D3 52 41 07	
94	Application File Locator (AFL)	08 01 01 00 10 01 01 01 18 01 01 00 20 01 02 00	
9F 07	Application Usage Control	FF 00 BYTE 1: b8 - Domestic cash trans. valid b7 - Int'l cash transactions valid b6 - Domestic goods valid b5 - International goods valid b4 - Domestic services valid b3 - International services valid b2 - ATMs valid b1 - non-ATM terminals valid BYTE 2: b8 - Domestic cashback NOT allowed b7 - International cashback NOT allowed	
9F 08	Application Version Number	00 02	
9F 0D	Issuer Action Code - Default	B4 50 80 80 00	
9F 0E	Issuer Action Code - Denial	00 00 00 00 00	
9F 0F	Issuer Action Code - Online	B4 70 80 80 00	
9F 10	Issuer Application Data [M/Chip Advance]	xx 11 xx xx xx xx xx xx xx xx xx xx xx xx xx xx xx xx *	
9F 11	Issuer Code Table Index	01	
9F 12	Application Preferred Name	4D 61 73 74 65 72 63 61 72 64 - 'Mastercard'	
9F 14	Counter 1 Lower Limit [Mastercard]	03	
9F 17	Personal Identification Number (PIN) Try Counter	09	
9F 23	Counter 1 Upper Limit [Mastercard]	07	
9F 26	Application Cryptogram (AC)	xx xx xx xx xx xx xx xx *	
9F 27	Cryptogram Information Data (CID)	80	
9F 32	Issuer Public Key Exponent	03	
9F 36	Application Transaction Counter (ATC)	00 04	
9F 36	Application Transaction Counter (ATC)	00 05	
9F 42	Application Currency Code	03 92 - JPY	
9F 44	Application Currency Exponent	00	

Tag	Element name	Data	v2.x
9F 46	ICC Public Key Certificate	2A FD 66 EA 62 AB 00 8C 97 1B CD 12 64 5F 31 00 9B C9 15 2D 00 54 F1 15 F4 64 B0 77 30 9E 31 33 C2 A9 C5 DC E3 01 FD 07 FC CE 55 16 BA 1C 5B A4 B9 11 68 EB 53 E4 04 E5 B8 C5 CE 9E AD 54 5B B9 0D 9C 3F 68 3F AF CE 41 DC EA 23 08 DF EC A2 26 B6 CA 5F F5 E8 28 05 F2 87 8D BC BF 9B D9 FC FB 33 EC 4B 86 8D 6A BF 46 DE 8D 3E DC 99 84 2A 18	
9F 47	ICC Public Key Exponent	03	
9F 48	ICC Public Key Remainder	46 4E 25 93 1F 9F C1 5E 0E 3D ED 4F C2 29 0E 27 70 30 89 86 FE B6 80 E9 09 64 E0 7C C1 F1 31 40 21 E4 B3 D9 BE 89 7A 8D A9 17	
9F 4A	Static Data Authentication Tag List	82	
9F 4D	Transaction Log Entry	0B 0A	
9F 4F	Transaction Log Format	9F 27 01 9F 02 06 5F 2A 02 9A 03 9F 36 02 9F 52 06 DF 3E 01 9F 21 03 9F 7C 14	
9F 5D	Application Capabilities Information [M/Chip Advance]	01 00 00	
9F 60	CVC3track1 [Mastercard]	C9 CF	
9F 61	CVC3track2 [Mastercard]	8E CF	
9F 62	Track 1 Bitmap for CVC3 (PCVC3 Track 1) [Mastercard]	00 00 00 38 00 00	
9F 63	Track 1 Bitmap for UN and ATC (PUNATC Track 1) [Mastercard]	00 00 00 00 E0 E0	
9F 64	Track 1 Number of ATC Digits (NATC Track 1) [Mastercard]	03	
9F 65	Track 2 Bitmap for CVC3 (PCVC3 Track 2) [Mastercard]	00 0E	
9F 66	Track 2 Bitmap for UN and ATC (PUNATC Track 2) [Mastercard]	0E 70	
9F 67	Track 2 Number of ATC Digits (NATC Track 2) [Mastercard]	03	
9F 6B	Track 2 Equivalent Data [Mastercard]	52 08 79 00 00 00 00 05 D2 51 22 01 00 00 40 00 00 00 0F	
9F 6C	Application Version [Mastercard]	00 01	
9F 6E	Third Party Data [Mastercard]	03 92 00 00 30 30 00	
9F 7E	Application Life Cycle Data [Mastercard]	03 10 0C 12 00 09 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 04 00 00 02 60 00 00 38 4A 02 11 50 35 43 44 30 37 32 20	
C3	Card Issuer Action Code (Contact) - Decline [M/Chip Advance]	00 00 00	
C4	Card Issuer Action Code (Contact) - Default [M/Chip Advance]	19 50 00	
C5	Card Issuer Action Code (Contact) - Online [M/Chip Advance]	39 FB 00	
C6	PIN Try Limit [M/Chip Advance]	09	
C7	CDOL1 Related Data Length [Mastercard]	42	
C8	CRM Country Code [Mastercard]	03 92 - JPN	

Tag	Element name	Data	v2.x
C9	Accumulator 1 Currency Code [Mastercard]	03 92 - JPY	
CA	Accumulator 1 Lower Limit [Mastercard]	00 00 00 02 00 00	
CB	Accumulator 1 Upper Limit [Mastercard]	00 00 00 04 00 00	
CD	Card Issuer Action Code (Contactless) - Default [M/Chip Advance]	00 58 00	
CE	Card Issuer Action Code (Contactless) - Online [M/Chip Advance]	00 F8 00	
CF	Card Issuer Action Code (Contactless) - Decline [M/Chip Advance]	00 00 00	
D1	Accumulator 1 Currency Conversion Table [Mastercard]	03 92 00 01 00 03 92 00 01 00 03 92 00 01 00 03 92 00 01 00 03 92 00 01 00	
D3	Additional Check Table [Mastercard]	00 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF	
D5	Application Control [M/Chip Advance]	8C 00 80 00 86 02	
D6	Default ARPC Response Code [M/Chip Advance]	00 12	
D7	Application Control [M/Chip Advance]	40 01 40 00 86 02	
DF 02	Security Limits Status (Contact) [M/Chip Advance]	00	

* Tag value changes with card usage

1.2 Test Card 02 – Visa, Dual Interface, 2-AID, Credit, S. Korea, WON

A Visa credit card with Issuer Country Code of 'S. Korea' and Currency Code of 'WON'.

The recommended transaction amount to generate a host approval is \$10.00.

1.2.1 Cardholder Verification Method List – AID (A0000000031010)

Cardholder Verification Method List ('4203 5E03 1F00 0000')			
CVM	Verification Method	Conditions	If unsuccessful
1	Online PIN	Terminal supports CVM type	Next CVM
2	Signature (paper)	Terminal supports CVM type	Fail
3	No CVM required	Always	Fail
4	Fail CVM processing	Always	Fail

1.2.2 Application Tag data (Contact)

Tag	Element name	Data	v3.x
42	Issuer Identification Number (IIN)	49 12 18	
50	Application Label	20 56 49 53 41 20 43 52 45 44 49 54 20 20 20 20 - 'VISA CREDIT'	
57	Track 2 Equivalent Data	49 12 18 00 00 00 00 09 D2 51 22 01 14 83 59 49 99 99 1F	
5A	Application Primary Account Number (PAN)	49 12 18 00 00 00 00 09	
5F 20	Cardholder Name	43 41 52 44 20 30 32 2F 2D 20 57 4F 4E 20 20 20 20 20 20 20 20 20 20 20 20 - 'CARD 02/- YEN'	
5F 24	Application Expiration Date	25 12 31	
5F 28	Issuer Country Code	04 10 - S. Korea	
5F 2D	Language Preference	65 6E - 'en' (English)	
5F 30	Service Code	02 01	
5F 34	Application PAN Sequence Number	01	

Tag	Element name	Data	v3.x
5F 55	Issuer Country Code (alpha2 format)	4B 52 - 'KR'	
82	Application Interchange Profile [VIS]	1C 00 BYTE 1: b7 - Offline SDA NOT supported b6 - Offline DDA NOT supported b5 - Cardholder verification supported b4 - Terminal risk mgmt to be performed b3 - Issuer authentication supported via EXTERNAL AUTH command b1 - Combined DDA / GEN AC NOT supported BYTE 2: b8 - Use for Visa NOT supported b7 - Is NOT Mobile handset	
84	Dedicated File (DF) Name	A0 00 00 00 03 10 10	
87	Application Priority Indicator	01	
8C	Card Risk Management Data Object List 1 (CDOL1)	9F 02 06 9F 03 06 9F 1A 02 95 05 5F 2A 02 9A 03 9C 01 9F 37 04	
8D	Card Risk Management Data Object List 2 (CDOL2)	8A 02 9F 02 06 9F 03 06 9F 1A 02 95 05 5F 2A 02 9A 03 9C 01 9F 37 04	
8E	Cardholder Verification Method (CVM) List	00 00 00 00 00 00 00 00 42 03 5E 03 1F 00 00 00 00 00	
94	Application File Locator (AFL)	08 01 02 00 08 04 04 00	
9F 07	Application Usage Control	FF 00 BYTE 1: b8 - Domestic cash trans. valid b7 - Int'l cash transactions valid b6 - Domestic goods valid b5 - International goods valid b4 - Domestic services valid b3 - International services valid b2 - ATMs valid b1 - non-ATM terminals valid BYTE 2: b8 - Domestic cashback NOT allowed b7 - International cashback NOT allowed	
9F 08	Application Version Number [VIS]	00 96	
9F 0D	Issuer Action Code - Default	00 00 00 00 00	
9F 0E	Issuer Action Code - Denial	00 00 00 00 00	
9F 0F	Issuer Action Code - Online	FC 70 BC 98 00	
9F 10	Issuer Application Data [VSDC]	xx xx 0A xx xx xx xx *	
9F 11	Issuer Code Table Index	01	
9F 12	Application Preferred Name	56 69 73 61 20 43 72 65 64 69 74 20 20 20 20 20 - 'Visa Credit'	
9F 13	Last Online Application Transaction Counter (ATC) Register	xx xx *	
9F 17	Personal Identification Number (PIN) Try Counter	09	
9F 26	Application Cryptogram (AC)	xx xx xx xx xx xx xx xx *	
9F 27	Cryptogram Information Data (CID)	80	
9F 36	Application Transaction Counter (ATC)	xx xx *	
9F 38	Processing Options Data Object List (PDOL)	9F 06 06	
9F 42	Application Currency Code	04 10 - WON	
9F 44	Application Currency Exponent	00	
9F 4A	Static Data Authentication Tag List	82	
9F 4F	Transaction Log Format	9F 02 06 5F 2A 02 9A 03 9F 36 02 9F 1A 02 95 05 9C 01 9F 27 01	
9F 51	Application Currency Code [VSDC]	04 10 - WON	

Tag	Element name	Data	v3.x
9F 52	Application Default Action [VSDC VIS 1.5]	00 00 00 00 00 00	
9F 56	Issuer Authentication Indicator [VSDC]	00	
9F 57	Issuer Country Code [VSDC]	04 10 - KOR	
9F 68	Card Additional Processes [qVSDC VCPS 2.1]	10 00 F0 00	
9F 6B	Card CVM Limit [qVSDC]	00 00 00 00 00 00	
BF 55	Contactless Counters Data Template	DF 11 01 00 DF 21 01 00 DF 31 01 00	
BF 56	Counters Data Template	DF 11 01 02	
BF 57	International Counters Data Template	DF 11 01 02 DF 51 01 02	
BF 58	Amounts Data Template	DF 11 06 00 00 00 00 00 00	
BF 59	Profile Controls Template		
BF 5A	AIP/AFL Entries Template	DF 11 0B 1C 00 08 08 01 02 00 08 04 04 00	
BF 5B	Application Internal Data Template	DF 01 02 00 00	

* Tag value changes with card usage

1.2.3 Application Tag data (Contactless, Online)

Tag	Element name	Data	v2.x
42	Issuer Identification Number (IIN)	49 12 18	
50	Application Label	56 49 53 41 20 43 52 45 44 49 54 20 20 20 20 20 - 'VISA CREDIT'	
5F 2D	Language Preference	65 6E - 'en' (English)	
5F 55	Issuer Country Code (alpha2 format)	4B 52 - 'KR'	
84	Dedicated File (DF) Name	A0 00 00 00 03 10 10	
87	Application Priority Indicator	01	
9F 11	Issuer Code Table Index	01	
9F 12	Application Preferred Name	56 49 53 41 20 43 72 65 64 69 74 20 20 20 20 20 - 'Visa Credit'	
9F 13	Last Online Application Transaction Counter (ATC) Register	xx xx *	
9F 17	Personal Identification Number (PIN) Try Counter	09	
9F 36	Application Transaction Counter (ATC)	xx xx *	
9F 38	Processing Options Data Object List (PDOL)	9F 66 04 9F 02 06 9F 03 06 9F 1A 02 95 05 5F 2A 02 9A 03 9C 01 9F 37 04	
9F 4F	Transaction Log Format	9F 02 06 5F 2A 02 9A 03 9F 36 02 9F 1A 02 95 05 9C 01 9F 27 01	
9F 51	Application Currency Code [VSDC]	04 10 - WON	
9F 52	Application Default Action [VSDC VIS 1.5]	00 00 00 00 00 00	
9F 57	Issuer Country Code [VSDC]	04 10 - KOR	
9F 68	Card Additional Processes [qVSDC VCPS 2.1]	10 00 F0 00	
9F 6B	Card CVM Limit [qVSDC]	00 00 00 00 00 00	
BF 55	Contactless Counters Data Template	DF 11 01 00 DF 21 01 00 DF 31 01 00	
BF 56	Counters Data Template	DF 11 01 00	
BF 57	International Counters Data Template	DF 11 01 00 DF 51 01 00	
BF 58	Amounts Data Template	DF 11 06 00 00 00 00 00 00	
BF 59	Profile Controls Template		
BF 5A	AIP/AFL Entries Template	DF 11 0B 1C 00 08 08 01 02 00 08 04 04 00	
BF 5B	Application Internal Data Template	DF 01 02 00 00	

* Tag value changes with card usage

1.2.4 Cardholder Verification Method List – AID (A0000000033010)

Cardholder Verification Method List ('4103 4203 5E03 1F00 0000')			
CVM	Verification Method	Conditions	If unsuccessful
1	Offline Plaintext PIN	Terminal supports CVM type	Next CVM
2	Online PIN	Terminal supports CVM type	Next CVM
3	Signature (paper)	Terminal supports CVM type	Next CVM
4	No CVM required	Always	Fail
5	Fail CVM processing	Always	Fail

1.2.5 Application Tag data (Contact)

Tag	Element name	Data	v3.x
42	Issuer Identification Number (IIN)	49 12 18	
50	Application Label	49 4E 54 45 52 4C 49 4E 4B 20 20 20 20 20 20 20 - 'INTERLINK'	
57	Track 2 Equivalent Data	49 12 18 00 00 00 00 09 D2 51 22 01 14 83 59 49 99 99 1F	
5A	Application Primary Account Number (PAN)	49 12 18 00 00 00 00 09	
5F 20	Cardholder Name	43 41 52 44 20 30 32 2F 2D 20 57 4F 4E 20 20 20 20 20 20 20 20 20 20 20 20 20 - 'CARD 02/- YEN'	
5F 24	Application Expiration Date	25 12 31	
5F 28	Issuer Country Code	04 10 - S. Korea	
5F 2D	Language Preference	65 6E - 'en' (English)	
5F 30	Service Code	02 01	
5F 34	Application PAN Sequence Number	01	
5F 55	Issuer Country Code (alpha2 format)	4B 52 - 'KR'	
82	Application Interchange Profile [VIS]	1C 00 BYTE 1: b7 - Offline SDA NOT supported b6 - Offline DDA NOT supported b5 - Cardholder verification supported b4 - Terminal risk mgmt to be performed b3 - Issuer authentication supported via EXTERNAL AUTH command b1 - Combined DDA / GEN AC NOT supported BYTE 2: b8 - Use for Visa NOT supported b7 - Is NOT Mobile handset	
84	Dedicated File (DF) Name	A0 00 00 00 03 30 10	
87	Application Priority Indicator	02	
8C	Card Risk Management Data Object List 1 (CDOL1)	9F 02 06 9F 03 06 9F 1A 02 95 05 5F 2A 02 9A 03 9C 01 9F 37 04	
8D	Card Risk Management Data Object List 2 (CDOL2)	8A 02 9F 02 06 9F 03 06 9F 1A 02 95 05 5F 2A 02 9A 03 9C 01 9F 37 04	
8E	Cardholder Verification Method (CVM) List	00 00 00 00 00 00 00 00 41 03 42 03 5E 03 1F 00 00 00	
94	Application File Locator (AFL)	08 01 03 00	

Tag	Element name	Data	v3.x
9F 07	Application Usage Control	FF C0 BYTE 1: b8 - Domestic cash trans. valid b7 - Int'l cash transactions valid b6 - Domestic goods valid b5 - International goods valid b4 - Domestic services valid b3 - International services valid b2 - ATMs valid b1 - non-ATM terminals valid BYTE 2: b8 - Domestic cashback allowed b7 - International cashback allowed	
9F 08	Application Version Number [VIS]	00 96	
9F 0D	Issuer Action Code - Default	00 00 00 00 00	
9F 0E	Issuer Action Code - Denial	00 00 00 00 00	
9F 0F	Issuer Action Code - Online	FC 70 BC 98 00	
9F 10	Issuer Application Data [VSDC]	xx xx 0A xx xx xx xx *	
9F 11	Issuer Code Table Index	01	
9F 12	Application Preferred Name	49 4E 54 45 52 4C 49 4E 4B 20 20 20 20 20 20 20 - 'INTERLINK'	
9F 13	Last Online Application Transaction Counter (ATC) Register	xx xx *	
9F 17	Personal Identification Number (PIN) Try Counter	09	
9F 26	Application Cryptogram (AC)	xx xx xx xx xx xx xx xx *	
9F 27	Cryptogram Information Data (CID)	80	
9F 36	Application Transaction Counter (ATC)	xx xx *	
9F 38	Processing Options Data Object List (PDOL)	9F 06 06	
9F 42	Application Currency Code	04 10 - WON	
9F 44	Application Currency Exponent	00	
9F 4A	Static Data Authentication Tag List	82	
9F 4F	Transaction Log Format	9F 02 06 5F 2A 02 9A 03 9F 36 02 9F 1A 02 95 05 9C 01 9F 27 01	
9F 51	Application Currency Code [VSDC]	04 10 - WON	
9F 52	Application Default Action [VSDC VIS 1.5]	00 00 00 00 00 00	
9F 53	Consecutive Transaction Limit (International) [VSDC]	05	
9F 54	Cumulative Total Transaction Amount Limit [VSDC]	00 00 00 02 00 00	
9F 56	Issuer Authentication Indicator [VSDC]	00	
9F 57	Issuer Country Code [VSDC]	04 10 - KOR	
9F 58	Consecutive Transaction Counter Limit [VSDC]	05	
9F 59	Consecutive Transaction Counter Upper Limit [VSDC]	0A	
9F 5C	Cumulative Total Transaction Amount Upper Limit [VSDC]	00 00 00 05 00 00	
9F 5E	Consecutive Transaction International Upper Limit [VSDC]	0A	
9F 68	Card Additional Processes [qVSDC VCPS 2.1]	10 00 F0 00	
9F 6B	Card CVM Limit [qVSDC]	00 00 00 00 00 00	
9F 6D	VLP Reset Threshold [VSDC]	00 00 00 00 00 00	
9F 72	Consecutive Transaction Limit (International-Country) [VSDC]	00	

Tag	Element name	Data	v3.x
BF 55	Contactless Counters Data Template	DF 11 01 00 DF 21 01 00 DF 31 01 00 DF 61 06 00 00 00 00 00	
BF 56	Counters Data Template	DF 11 01 01 DF 21 01 05 DF 31 01 0A	
BF 57	International Counters Data Template	DF 11 01 01 DF 21 01 05 DF 31 01 0A DF 51 01 01 DF 61 01 00	
BF 58	Amounts Data Template	DF 11 06 00 00 00 00 00 DF 21 06 00 00 02 00 00 DF 31 06 00 00 05 00 00	
BF 59	Profile Controls Template		
BF 5A	AIP/AFL Entries Template	DF 11 07 1C 00 04 08 01 03 00	
BF 5B	Application Internal Data Template	DF 01 02 00 00	

* Tag value changes with card usage

1.2.6 Application Tag data (Contactless, Online)

Tag	Element name	Data	v2.x
42	Issuer Identification Number (IIN)	49 12 18	
50	Application Label	49 4E 54 45 52 4C 49 4E 4B 20 20 20 20 20 20 20 - 'INTERLINK'	
5F 2D	Language Preference	65 6E - 'en' (English)	
5F 55	Issuer Country Code (alpha2 format)	4B 52 - 'KR'	
84	Dedicated File (DF) Name	A0 00 00 00 03 30 10	
87	Application Priority Indicator	02	
9F 11	Issuer Code Table Index	01	
9F 12	Application Preferred Name	49 4E 54 45 52 4C 49 4E 4B 20 20 20 20 20 20 20 - 'INTERLINK'	
9F 13	Last Online Application Transaction Counter (ATC) Register	xx xx *	
9F 17	Personal Identification Number (PIN) Try Counter	09	
9F 36	Application Transaction Counter (ATC)	xx xx *	
9F 38	Processing Options Data Object List (PDOL)	9F 66 04 9F 02 06 9F 03 06 9F 1A 02 95 05 5F 2A 02 9A 03 9C 01 9F 37 04	
9F 4F	Transaction Log Format	9F 02 06 5F 2A 02 9A 03 9F 36 02 9F 1A 02 95 05 9C 01 9F 27 01	
9F 51	Application Currency Code [VSDC]	04 10 - WON	
9F 52	Application Default Action [VSDC VIS 1.5]	00 00 00 00 00 00	
9F 53	Consecutive Transaction Limit (International) [VSDC]	05	
9F 54	Cumulative Total Transaction Amount Limit [VSDC]	00 00 00 02 00 00	
9F 57	Issuer Country Code [VSDC]	04 10 - KOR	
9F 58	Consecutive Transaction Counter Limit [VSDC]	05	
9F 59	Consecutive Transaction Counter Upper Limit [VSDC]	0A	
9F 5C	Cumulative Total Transaction Amount Upper Limit [VSDC]	00 00 00 05 00 00	
9F 5E	Consecutive Transaction International Upper Limit [VSDC]	0A	
9F 68	Card Additional Processes [qVSDC VCPS 2.1]	10 00 F0 00	
9F 6B	Card CVM Limit [qVSDC]	00 00 00 00 00 00	
9F 6D	VLP Reset Threshold [VSDC]	00 00 00 00 00 00	

Tag	Element name	Data	v2.x
9F 72	Consecutive Transaction Limit (International-Country) [VSDC]	00	
BF 55	Contactless Counters Data Template	DF 11 01 00 DF 21 01 00 DF 31 01 00 DF 61 06 00 00 00 00 00	
BF 56	Counters Data Template	DF 11 01 00 DF 21 01 05 DF 31 01 0A	
BF 57	International Counters Data Template	DF 11 01 00 DF 21 01 05 DF 31 01 0A DF 51 01 00 DF 61 01 00	
BF 58	Amounts Data Template	DF 11 06 00 00 00 00 00 DF 21 06 00 00 02 00 00 DF 31 06 00 00 05 00 00	
BF 59	Profile Controls Template		
BF 5A	AIP/AFL Entries Template	DF 11 07 1C 00 04 08 01 03 00	
BF 5B	Application Internal Data Template	DF 01 02 00 00	

* Tag value changes with card usage

1.3 Test Card 03 – Visa, Contact-only, 2-AID, Credit, Australia, AUD

A Visa credit card with Issuer Country Code of 'Australia' and Currency Code of 'AUD'.

The recommended transaction amount to generate a host approval is \$10.00.

1.3.1 Cardholder Verification Method List – AID (A0000000031010)

Cardholder Verification Method List ('4201 4204 5E03 1F00 0000')			
CVM	Verification Method	Conditions	If unsuccessful
1	Online PIN	Unattended Cash	Next CVM
2	Online PIN	Manual Cash	Next CVM
3	Signature (paper)	Terminal supports CVM type	Next CVM
4	No CVM required	Always	Fail
5	Fail CVM Processing	Always	Fail

1.3.2 Application Tag data (Contact)

Tag	Element name	Data	v2.x
42	Issuer Identification Number (IIN)	40 72 64	
50	Application Label	20 56 49 53 41 20 43 52 45 44 49 54 20 20 20 20 - 'VISA CREDIT'	
57	Track 2 Equivalent Data	40 72 64 00 00 00 00 08 D2 51 22 01 14 83 59 49 99 99 1F	
5A	Application Primary Account Number (PAN)	40 72 64 00 00 00 00 08	
5F 20	Cardholder Name	43 41 52 44 20 30 33 2F 2D 20 41 55 44 20 20 20 20 20 20 20 20 20 20 20 20 - 'CARD 03/- AUD'	
5F 24	Application Expiration Date	25 12 31	
5F 28	Issuer Country Code	00 36 - Australia	
5F 2D	Language Preference	65 6E - 'en' (English)	
5F 30	Service Code	02 01	
5F 34	Application PAN Sequence Number	01	
5F 55	Issuer Country Code (alpha2 format)	41 55 - 'AU'	

Tag	Element name	Data	v2.x
82	Application Interchange Profile [VIS]	1C 00 BYTE 1: b7 - Offline SDA NOT supported b6 - Offline DDA NOT supported b5 - Cardholder verification supported b4 - Terminal risk mgmt to be performed b3 - Issuer authentication supported via EXTERNAL AUTH command b1 - Combined DDA / GEN AC NOT supported BYTE 2: b8 - Use for Visa NOT supported b7 - Is NOT Mobile handset	
84	Dedicated File (DF) Name	A0 00 00 00 03 10 10	
87	Application Priority Indicator	01	
8C	Card Risk Management Data Object List 1 (CDOL1)	9F 02 06 9F 03 06 9F 1A 02 95 05 5F 2A 02 9A 03 9C 01 9F 37 04	
8D	Card Risk Management Data Object List 2 (CDOL2)	8A 02 9F 02 06 9F 03 06 9F 1A 02 95 05 5F 2A 02 9A 03 9C 01 9F 37 04	
8E	Cardholder Verification Method (CVM) List	00 00 00 00 00 00 00 00 42 01 42 04 5E 03 1F 00 00 00	
94	Application File Locator (AFL)	08 01 02 00 08 04 04 00	
9F 07	Application Usage Control	FF 00 BYTE 1: b8 - Domestic cash trans. valid b7 - Int'l cash transactions valid b6 - Domestic goods valid b5 - International goods valid b4 - Domestic services valid b3 - International services valid b2 - ATMs valid b1 - non-ATM terminals valid BYTE 2: b8 - Domestic cashback NOT allowed b7 - International cashback NOT allowed	
9F 08	Application Version Number [VIS]	00 96	
9F 0D	Issuer Action Code - Default	00 00 00 00 00	
9F 0E	Issuer Action Code - Denial	00 00 00 00 00	
9F 0F	Issuer Action Code - Online	FC 70 BC 98 00	
9F 10	Issuer Application Data [VSDC]	xx xx 0A xx xx xx xx *	
9F 11	Issuer Code Table Index	01	
9F 12	Application Preferred Name	56 69 73 61 20 43 72 65 64 69 74 20 20 20 20 20 - 'Visa Credit'	
9F 13	Last Online Application Transaction Counter (ATC) Register	xx xx *	
9F 17	Personal Identification Number (PIN) Try Counter	09	
9F 26	Application Cryptogram (AC)	xx xx xx xx xx xx xx xx *	
9F 27	Cryptogram Information Data (CID)	80	
9F 36	Application Transaction Counter (ATC)	xx xx *	
9F 38	Processing Options Data Object List (PDOL)	9F 06 06	
9F 42	Application Currency Code	00 36 - AUD	
9F 44	Application Currency Exponent	02	
9F 4A	Static Data Authentication Tag List	82	
9F 4F	Transaction Log Format	9F 02 06 5F 2A 02 9A 03 9F 36 02 9F 1A 02 95 05 9C 01 9F 27 01	
9F 51	Application Currency Code [VSDC]	00 36 - AUD	
9F 52	Application Default Action [VSDC VIS 1.5]	00 00 00 00 00 00	

Tag	Element name	Data	v2.x
9F 56	Issuer Authentication Indicator [VSDC]	00	
9F 57	Issuer Country Code [VSDC]	00 36 - AUS	
9F 68	Card Additional Processes [qVSDC VCPS 2.1]	10 00 F0 00	
9F 6B	Card CVM Limit [qVSDC]	00 00 00 00 00 00	
BF 55	Contactless Counters Data Template	DF 11 01 00 DF 21 01 00 DF 31 01 00	
BF 56	Counters Data Template	DF 11 01 02	
BF 57	International Counters Data Template	DF 11 01 02 DF 51 01 02	
BF 58	Amounts Data Template	DF 11 06 00 00 00 00 00 00	
BF 59	Profile Controls Template		
BF 5A	AIP/AFL Entries Template	DF 11 0B 1C 00 08 08 01 02 00 08 04 04 00	
BF 5B	Application Internal Data Template	DF 01 02 00 00	

* Tag value changes with card usage

1.3.3 Cardholder Verification Method List – AID (A000000033010)

Cardholder Verification Method List ('0201 0004 0205 4200 1F00')			
CVM	Verification Method	Conditions	If unsuccessful
1	Online PIN	Unattended Cash	Fail
2	Fail CVM Processing	Manual Cash	Fail
3	Online PIN	Purchase with Cashback	Fail
4	Online PIN	Always	Next CVM
5	No CVM required	Always	Fail

1.3.4 Application Tag data (Contact)

Tag	Element name	Data	v2.x
42	Issuer Identification Number (IIN)	40 72 64	
50	Application Label	49 4E 54 45 52 4C 49 4E 4B 20 20 20 20 20 20 - 'INTERLINK'	
57	Track 2 Equivalent Data	40 72 64 00 00 00 00 08 D2 51 22 01 14 83 59 49 99 99 1F	
5A	Application Primary Account Number (PAN)	40 72 64 00 00 00 00 08	
5F 20	Cardholder Name	43 41 52 44 20 30 33 2F 2D 20 41 55 44 20 20 20 20 20 20 20 20 20 20 20 - 'CARD 03/-AUD'	
5F 24	Application Expiration Date	25 12 31	
5F 28	Issuer Country Code	00 36 - Australia	
5F 2D	Language Preference	65 6E - 'en' (English)	
5F 30	Service Code	02 01	
5F 34	Application PAN Sequence Number	01	
5F 55	Issuer Country Code (alpha2 format)	41 55 - 'AU'	

Tag	Element name	Data	v2.x
82	Application Interchange Profile [VIS]	1C 00 BYTE 1: b7 - Offline SDA NOT supported b6 - Offline DDA NOT supported b5 - Cardholder verification supported b4 - Terminal risk mgmt to be performed b3 - Issuer authentication supported via EXTERNAL AUTH command b1 - Combined DDA / GEN AC NOT supported BYTE 2: b8 - Use for Visa NOT supported b7 - Is NOT Mobile handset	
84	Dedicated File (DF) Name	A0 00 00 00 03 30 10	
87	Application Priority Indicator	02	
8C	Card Risk Management Data Object List 1 (CDOL1)	9F 02 06 9F 03 06 9F 1A 02 95 05 5F 2A 02 9A 03 9C 01 9F 37 04	
8D	Card Risk Management Data Object List 2 (CDOL2)	8A 02 9F 02 06 9F 03 06 9F 1A 02 95 05 5F 2A 02 9A 03 9C 01 9F 37 04	
8E	Cardholder Verification Method (CVM) List	00 00 00 00 00 00 00 00 02 01 00 04 02 05 42 00 1F 00	
94	Application File Locator (AFL)	08 01 03 00	
9F 07	Application Usage Control	FF C0 BYTE 1: b8 - Domestic cash trans. valid b7 - Int'l cash transactions valid b6 - Domestic goods valid b5 - International goods valid b4 - Domestic services valid b3 - International services valid b2 - ATMs valid b1 - non-ATM terminals valid BYTE 2: b8 - Domestic cashback allowed b7 - International cashback allowed	
9F 08	Application Version Number [VIS]	00 96	
9F 0D	Issuer Action Code - Default	00 00 00 00 00	
9F 0E	Issuer Action Code - Denial	00 00 00 00 00	
9F 0F	Issuer Action Code - Online	FC 70 BC 98 00	
9F 10	Issuer Application Data [VSDC]	xx xx 0A xx xx xx xx *	
9F 11	Issuer Code Table Index	01	
9F 12	Application Preferred Name	49 4E 54 45 52 4C 49 4E 4B 20 20 20 20 20 20 20 - 'INTERLINK'	
9F 13	Last Online Application Transaction Counter (ATC) Register	xx xx *	
9F 17	Personal Identification Number (PIN) Try Counter	09	
9F 26	Application Cryptogram (AC)	xx xx xx xx xx xx xx xx *	
9F 27	Cryptogram Information Data (CID)	80	
9F 36	Application Transaction Counter (ATC)	xx xx *	
9F 38	Processing Options Data Object List (PDOL)	9F 06 06	
9F 42	Application Currency Code	00 36 - AUD	
9F 44	Application Currency Exponent	02	
9F 4A	Static Data Authentication Tag List	82	
9F 4F	Transaction Log Format	9F 02 06 5F 2A 02 9A 03 9F 36 02 9F 1A 02 95 05 9C 01 9F 27 01	
9F 51	Application Currency Code [VSDC]	00 36 - AUD	

Tag	Element name	Data	v2.x
9F 52	Application Default Action [VSDC VIS 1.5]	00 00 00 00 00 00	
9F 53	Consecutive Transaction Limit (International) [VSDC]	05	
9F 54	Cumulative Total Transaction Amount Limit [VSDC]	00 00 00 02 00 00	
9F 56	Issuer Authentication Indicator [VSDC]	00	
9F 57	Issuer Country Code [VSDC]	00 36 - AUS	
9F 58	Consecutive Transaction Counter Limit [VSDC]	05	
9F 59	Consecutive Transaction Counter Upper Limit [VSDC]	0A	
9F 5C	Cumulative Total Transaction Amount Upper Limit [VSDC]	00 00 00 05 00 00	
9F 5E	Consecutive Transaction International Upper Limit [VSDC]	0A	
9F 68	Card Additional Processes [qVSDC VCPS 2.1]	10 00 F0 00	
9F 6B	Card CVM Limit [qVSDC]	00 00 00 00 00 00	
9F 6D	VLP Reset Threshold [VSDC]	00 00 00 00 00 00	
9F 72	Consecutive Transaction Limit (International-Country) [VSDC]	00	
BF 55	Contactless Counters Data Template	DF 11 01 00 DF 21 01 00 DF 31 01 00 DF 61 06 00 00 00 00 00 00	
BF 56	Counters Data Template	DF 11 01 01 DF 21 01 05 DF 31 01 0A	
BF 57	International Counters Data Template	DF 11 01 01 DF 21 01 05 DF 31 01 0A DF 51 01 01 DF 61 01 00	
BF 58	Amounts Data Template	DF 11 06 00 00 00 00 00 00 DF 21 06 00 00 00 02 00 00 DF 31 06 00 00 00 05 00 00	
BF 59	Profile Controls Template		
BF 5A	AIP/AFL Entries Template	DF 11 07 1C 00 04 08 01 03 00	
BF 5B	Application Internal Data Template	DF 01 02 00 00	

* Tag value changes with card usage

1.4 Test Card 04 – Mastercard, Contact-only, 2-AID, Credit, Chile, CLP

A Mastercard credit card with Issuer Country Code of 'Chile' and Currency Code of 'CLP'.

The recommended transaction amount to generate a host approval is \$20.00.

1.4.1 Cardholder Verification Method List – AID (A0000000041010)

Cardholder Verification Method List ('4103 4203 5E03 1F00 0000')			
CVM	Verification Method	Conditions	If unsuccessful
1	Offline Plaintext PIN	Terminal supports CVM type	Next CVM
2	Online PIN	Terminal supports CVM type	Next CVM
3	Signature (paper)	Terminal supports CVM type	Next CVM
4	No CVM required	Always	Fail
5	Fail CVM processing	Always	Fail

1.4.2 Application Tag data (Contact)

Tag	Element name	Data	v2.x
42	Issuer Identification Number (IIN)	52 81 80	
50	Application Label	4D 41 53 54 45 52 43 41 52 44 43 52 45 44 49 54 - 'MASTERCARDCREDIT'	
57	Track 2 Equivalent Data	52 81 80 00 00 00 00 02 D2 51 22 01 14 83 59 49 00 0F	
5A	Application Primary Account Number (PAN)	52 81 80 00 00 00 00 02	
5F 20	Cardholder Name	43 41 52 44 20 30 34 2F 2D 20 43 4C 50 20 20 20 20 20 20 20 20 20 20 20 20 - 'CARD 04/ CLP'	
5F 24	Application Expiration Date	25 12 31	
5F 25	Application Effective Date	xx xx xx	
5F 28	Issuer Country Code	01 52 - Chile	
5F 2D	Language Preference	65 6E - 'en' (English)	
5F 30	Service Code	02 01	
5F 34	Application PAN Sequence Number	01	
5F 55	Issuer Country Code (alpha2 format)	43 4C - 'CL'	
82	Application Interchange Profile	18 00 BYTE 1: b7 - Offline SDA NOT supported b6 - Offline DDA NOT supported b5 - Cardholder verification supported b4 - Terminal risk mgmt to be performed b3 - Issuer authentication NOT supported via EXTERNAL AUTH command b1 - Combined DDA / GEN AC NOT supported BYTE 2: b8 - EMV Contactless NOT supported	
84	Dedicated File (DF) Name	A0 00 00 00 04 10 10	
87	Application Priority Indicator	01	
8C	Card Risk Management Data Object List 1 (CDOL1)	9F 02 06 9F 03 06 9F 1A 02 95 05 5F 2A 02 9A 03 9C 01 9F 37 04 9F 35 01 9F 45 02 9F 4C 08 9F 34 03 9F 21 03 9F 7C 14	
8D	Card Risk Management Data Object List 2 (CDOL2)	91 0A 8A 02 95 05 9F 37 04 9F 4C 08	
8E	Cardholder Verification Method (CVM) List	00 00 00 00 00 00 00 00 41 03 42 03 5E 03 1F 00 00 00	
94	Application File Locator (AFL)	08 01 03 00	
94	Application File Locator (AFL)	08 01 03 00	
9F 07	Application Usage Control	FF C0 BYTE 1: b8 - Domestic cash trans. valid b7 - Int'l cash transactions valid b6 - Domestic goods valid b5 - International goods valid b4 - Domestic services valid b3 - International services valid b2 - ATMs valid b1 - non-ATM terminals valid BYTE 2: b8 - Domestic cashback allowed b7 - International cashback allowed	
9F 08	Application Version Number	00 02	
9F 0D	Issuer Action Code - Default	B0 50 9C 88 00	
9F 0E	Issuer Action Code - Denial	00 00 00 00 00	
9F 0F	Issuer Action Code - Online	B0 70 9C 98 00	

Tag	Element name	Data	v2.x
9F 10	Issuer Application Data [M/Chip Advance]	xx 10 xx xx xx xx xx xx xx xx xx xx xx xx xx xx xx xx *	
9F 11	Issuer Code Table Index	01	
9F 12	Application Preferred Name	4D 61 73 74 65 72 63 61 72 64 43 72 65 64 69 74 - 'Mastercardcredit'	
9F 14	Counter 1 Lower Limit [Mastercard]	00	
9F 17	Personal Identification Number (PIN) Try Counter	09	
9F 23	Counter 1 Upper Limit [Mastercard]	00	
9F 26	Application Cryptogram (AC)	xx xx xx xx xx xx xx xx *	
9F 27	Cryptogram Information Data (CID)	80	
9F 36	Application Transaction Counter (ATC)	00 01	
9F 42	Application Currency Code	01 52 - CLP	
9F 4D	Transaction Log Entry	0B 0A	
9F 4F	Transaction Log Format	9F 27 01 9F 02 06 5F 2A 02 9A 03 9F 36 02 9F 52 06 DF 3E 01 9F 21 03 9F 7C 14	
9F 6E	Third Party Data [Mastercard]	01 52 00 00 30 30 00	
9F 7E	Application Life Cycle Data [Mastercard]	04 10 0B 14 00 01 00 00 50 17 79 00 A0 00 00 00 04 10 10 00 00 00 00 00 00 00 00 00 00 96 00 97 02 00 5A 5A 00 00 00 00 00 00 00 00 00 00 00 00	
C3	Card Issuer Action Code (Contact) - Decline [M/Chip Advance]	00 00 00	
C4	Card Issuer Action Code (Contact) - Default [M/Chip Advance]	06 50 00	
C5	Card Issuer Action Code (Contact) - Online [M/Chip Advance]	06 FB 00	
C6	PIN Try Limit [M/Chip Advance]	09	
C7	CDOL1 Related Data Length [Mastercard]	42	
C8	CRM Country Code [Mastercard]	01 52 - CHL	
C9	Accumulator 1 Currency Code [Mastercard]	01 52 - CLP	
CA	Accumulator 1 Lower Limit [Mastercard]	00 00 00 00 00 00	
CB	Accumulator 1 Upper Limit [Mastercard]	00 00 00 00 00 00	
CD	Card Issuer Action Code (Contactless) - Default [M/Chip Advance]	00 00 00	
CE	Card Issuer Action Code (Contactless) - Online [M/Chip Advance]	00 00 00	
CF	Card Issuer Action Code (Contactless) - Decline [M/Chip Advance]	00 00 00	
D1	Accumulator 1 Currency Conversion Table [Mastercard]	01 52 00 01 00 01 52 00 01 00 01 52 00 01 00 01 52 00 01 00 01 52 00 01 00	
D3	Additional Check Table [Mastercard]	00 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF	
D5	Application Control [M/Chip Advance]	84 00 80 00 C6 02	
D6	Default ARPC Response Code [M/Chip Advance]	00 10	
D7	Application Control [M/Chip Advance]	00 00 00 00 00 00	
D9	Application File Locator (Contactless)		
DE	Log Data Table [M/Chip Advance]	00 00 00 00 00 00 00 00 00	
DF 02	Security Limits Status (Contact) [M/Chip Advance]	00	
DF 11	Accumulator 1 Control (Contact) [M/Chip Advance]	C1	

Tag	Element name	Data	v2.x
DF 12	Accumulator 1 Control (Contactless) [M/Chip Advance]	00	
DF 14	Accumulator 2 Control (Contact) [M/Chip Advance]	00	
DF 15	Accumulator 2 Control (Contactless) [M/Chip Advance]	00	
DF 16	Accumulator 2 Currency Code [Mastercard]	01 52	
DF 17	Accumulator 2 Currency Conversion Table [Mastercard]	01 52 00 01 00 01 52 00 01 00 01 52 00 01 00 01 52 00 01 00 01 52 00 01 00	
DF 18	Accumulator 2 Lower Limit [Mastercard]	00 00 00 00 00 00	
DF 19	Accumulator 2 Upper Limit [Mastercard]	00 00 00 00 00 00	
DF 1A	Counter 1 Control (Contact) [M/Chip Advance]	c1	
DF 1B	Counter 1 Control (Contactless) [M/Chip Advance]	00	
DF 1D	Counter 2 Control (Contact) [M/Chip Advance]	00	
DF 1E	Counter 2 Control (Contactless) [M/Chip Advance]	00	
DF 1F	Counter 2 Lower Limit [Mastercard]	00	
DF 21	Counter 2 Upper Limit [Mastercard]	00	
DF 22	MTA CVM (Contact) [M/Chip Advance]	00 00 00 00 00 00	
DF 23	MTA CVM (Contactless) [M/Chip Advance]	00 00 00 00 00 00	
DF 24	MTA Currency Code [M/Chip Advance]	01 52	
DF 25	MTA NoCVM (Contact) [M/Chip Advance]	00 00 00 00 00 00	
DF 26	MTA NoCVM (Contactless) [M/Chip Advance]	00 00 00 00 00 00	
DF 27	Number Of Days Offline Limit [M/Chip Advance]	00 00	
DF 28	Accumulator 1 CVR Dependency Data (Contact) [M/Chip Advance]	00 00 00	
DF 29	Accumulator 1 CVR Dependency Data (Contactless) [M/Chip Advance]	00 00 00	
DF 2A	Accumulator 2 CVR Dependency Data (Contact) [M/Chip Advance]	00 00 00	
DF 2B	Accumulator 2 CVR Dependency Data (Contactless) [M/Chip Advance]	00 00 00	
DF 2C	Counter 1 CVR Dependency Data (Contact) [M/Chip Advance]	00 00 00	
DF 2D	Counter 1 CVR Dependency Data (Contactless) [M/Chip Advance]	00 00 00	
DF 2E	Counter 2 CVR Dependency Data (Contact) [M/Chip Advance]	00 00 00	
DF 2F	Counter 2 CVR Dependency Data (Contactless) [M/Chip Advance]	00 00 00	
DF 30	Interface Enabling Switch [M/Chip Advance]	01	
DF 35	Security Limits Status (Contactless) [M/Chip Advance]	00	
DF 37	Security Limits Status Common [M/Chip Advance]	00	
DF 3C	CVR Issuer Discretionary Data (Contact) [M/Chip Advance]	00	
DF 3D	CVR Issuer Discretionary Data (Contactless) [M/Chip Advance]	00	
DF 3F	Read Record Filter (Contact) [M/Chip Advance]	00	

Tag	Element name	Data	v2.x
DF 40	Read Record Filter (Contactless) [M/Chip Advance]		
DF 41	DS Management Control [M/Chip Advance]	20	

* Tag value changes with card usage

1.4.3 Cardholder Verification Method List – AID (A0000000043060)

Cardholder Verification Method List ('4103 4203 5E03 0000')			
CVM	Verification Method	Conditions	If unsuccessful
1	Offline Plaintext PIN	Terminal supports CVM type	Next CVM
2	Online PIN	Terminal supports CVM type	Next CVM
3	Signature (paper)	Terminal supports CVM type	Next CVMil
4	Fail CVM Processing	Always	Fail

1.4.4 Application Tag data (Contact)

Tag	Element name	Data	v2.x
42	Issuer Identification Number (IIN)	67 67 74	
50	Application Label	4D 41 45 53 54 52 4F 20 20 20 20 20 20 20 20 20 - 'MAESTRO'	
57	Track 2 Equivalent Data	67 67 74 00 00 00 00 00 3D 25 12 20 11 48 35 94 90 00 0F	
5A	Application Primary Account Number (PAN)	67 67 74 00 00 00 00 00 00 3F	
5F 20	Cardholder Name	43 41 52 44 20 30 34 2F 2D 20 43 4C 50 20 20 20 20 20 20 20 20 20 20 20 20 20 - 'CARD 04/ CLP'	
5F 24	Application Expiration Date	25 12 31	
5F 25	Application Effective Date	xx xx xx	
5F 28	Issuer Country Code	01 52 - Chile	
5F 2D	Language Preference	65 6E - 'en' (English)	
5F 30	Service Code	02 01	
5F 34	Application PAN Sequence Number	01	
5F 55	Issuer Country Code (alpha2 format)	43 4C - 'CL'	
82	Application Interchange Profile	18 00 BYTE 1: b7 - Offline SDA NOT supported b6 - Offline DDA NOT supported b5 - Cardholder verification supported b4 - Terminal risk mgmt to be performed b3 - Issuer authentication NOT supported via EXTERNAL AUTH command b1 - Combined DDA / GEN AC NOT supported BYTE 2: b8 - EMV Contactless NOT supported	
84	Dedicated File (DF) Name	A0 00 00 00 04 30 60	
87	Application Priority Indicator	02	
8C	Card Risk Management Data Object List 1 (CDOL1)	9F 02 06 9F 03 06 9F 1A 02 95 05 5F 2A 02 9A 03 9C 01 9F 37 04 9F 35 01 9F 45 02 9F 4C 08 9F 34 03 9F 21 03 9F 7C 14	
8D	Card Risk Management Data Object List 2 (CDOL2)	91 0A 8A 02 95 05 9F 37 04 9F 4C 08	
8E	Cardholder Verification Method (CVM) List	00 00 00 00 00 00 00 00 41 03 42 03 5E 03 00 00 00 00	
94	Application File Locator (AFL)	08 01 02 00 08 04 04 00	
94	Application File Locator (AFL)	08 01 02 00 08 04 04 00	

Tag	Element name	Data	v2.x
9F 07	Application Usage Control	FF C0 BYTE 1: b8 - Domestic cash trans. valid b7 - Int'l cash transactions valid b6 - Domestic goods valid b5 - International goods valid b4 - Domestic services valid b3 - International services valid b2 - ATMs valid b1 - non-ATM terminals valid BYTE 2: b8 - Domestic cashback allowed b7 - International cashback allowed	
9F 08	Application Version Number	00 02	
9F 0D	Issuer Action Code - Default	B0 50 9C 88 00	
9F 0E	Issuer Action Code - Denial	00 00 00 00 00	
9F 0F	Issuer Action Code - Online	B0 70 9C 98 00	
9F 10	Issuer Application Data [M/Chip Advance]	xx 10 xx xx xx xx xx xx xx xx xx xx xx xx xx xx xx xx *	
9F 11	Issuer Code Table Index	01	
9F 12	Application Preferred Name	4D 61 65 73 74 72 6F 20 20 20 20 20 20 20 20 20 - 'Maestro'	
9F 14	Counter 1 Lower Limit [Mastercard]	00	
9F 17	Personal Identification Number (PIN) Try Counter	09	
9F 23	Counter 1 Upper Limit [Mastercard]	00	
9F 26	Application Cryptogram (AC)	xx xx xx xx xx xx xx xx *	
9F 27	Cryptogram Information Data (CID)	80	
9F 36	Application Transaction Counter (ATC)	00 01	
9F 42	Application Currency Code	01 52 - AUD	
9F 4D	Transaction Log Entry	0B 0A	
9F 4F	Transaction Log Format	9F 27 01 9F 02 06 5F 2A 02 9A 03 9F 36 02 9F 52 06 DF 3E 01 9F 21 03 9F 7C 14	
9F 6E	Third Party Data [Mastercard]	01 52 00 00 30 30 00	
9F 7E	Application Life Cycle Data [Mastercard]	04 10 0B 14 00 01 00 00 50 17 79 00 A0 00 00 00 04 30 60 00 00 00 00 00 00 00 00 00 96 00 97 02 00 5A 5A 00 00 00 00 00 00 00 00 00 00 00 00	
C3	Card Issuer Action Code (Contact) - Decline [M/Chip Advance]	00 00 00	
C4	Card Issuer Action Code (Contact) - Default [M/Chip Advance]	06 50 00	
C5	Card Issuer Action Code (Contact) - Online [M/Chip Advance]	06 FB 00	
C6	PIN Try Limit [M/Chip Advance]	09	
C7	CDOL1 Related Data Length [Mastercard]	42	
C8	CRM Country Code [Mastercard]	01 52 - AUS	
C9	Accumulator 1 Currency Code [Mastercard]	01 52 - AUD	
CA	Accumulator 1 Lower Limit [Mastercard]	00 00 00 00 00 00	
CB	Accumulator 1 Upper Limit [Mastercard]	00 00 00 00 00 00	
CD	Card Issuer Action Code (Contactless) - Default [M/Chip Advance]	00 00 00	
CE	Card Issuer Action Code (Contactless) - Online [M/Chip Advance]	00 00 00	
CF	Card Issuer Action Code (Contactless) - Decline [M/Chip Advance]	00 00 00	

Tag	Element name	Data	v2.x
D1	Accumulator 1 Currency Conversion Table [Mastercard]	01 52 00 01 00 01 52 00 01 00 01 52 00 01 00 01 52 00 01 00 01 52 00 01 00	
D3	Additional Check Table [Mastercard]	00 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF	
D5	Application Control [M/Chip Advance]	84 00 80 00 C6 02	
D6	Default ARPC Response Code [M/Chip Advance]	00 10	
D7	Application Control [M/Chip Advance]	00 00 00 00 00 00	
D9	Application File Locator (Contactless)		
DE	Log Data Table [M/Chip Advance]	00 00 00 00 00 00 00 00 00	
DF 02	Security Limits Status (Contact) [M/Chip Advance]	00	
DF 11	Accumulator 1 Control (Contact) [M/Chip Advance]	C1	
DF 12	Accumulator 1 Control (Contactless) [M/Chip Advance]	00	
DF 14	Accumulator 2 Control (Contact) [M/Chip Advance]	00	
DF 15	Accumulator 2 Control (Contactless) [M/Chip Advance]	00	
DF 16	Accumulator 2 Currency Code [Mastercard]	01 52	
DF 17	Accumulator 2 Currency Conversion Table [Mastercard]	01 52 00 01 00 01 52 00 01 00 01 52 00 01 00 01 52 00 01 00 01 52 00 01 00	
DF 18	Accumulator 2 Lower Limit [Mastercard]	00 00 00 00 00 00	
DF 19	Accumulator 2 Upper Limit [Mastercard]	00 00 00 00 00 00	
DF 1A	Counter 1 Control (Contact) [M/Chip Advance]	C1	
DF 1B	Counter 1 Control (Contactless) [M/Chip Advance]	00	
DF 1D	Counter 2 Control (Contact) [M/Chip Advance]	00	
DF 1E	Counter 2 Control (Contactless) [M/Chip Advance]	00	
DF 1F	Counter 2 Lower Limit [Mastercard]	00	
DF 21	Counter 2 Upper Limit [Mastercard]	00	
DF 22	MTA CVM (Contact) [M/Chip Advance]	00 00 00 00 00 00	
DF 23	MTA CVM (Contactless) [M/Chip Advance]	00 00 00 00 00 00	
DF 24	MTA Currency Code [M/Chip Advance]	01 52	
DF 25	MTA NoCVM (Contact) [M/Chip Advance]	00 00 00 00 00 00	
DF 26	MTA NoCVM (Contactless) [M/Chip Advance]	00 00 00 00 00 00	
DF 27	Number Of Days Offline Limit [M/Chip Advance]	00 00	
DF 28	Accumulator 1 CVR Dependency Data (Contact) [M/Chip Advance]	00 00 00	
DF 29	Accumulator 1 CVR Dependency Data (Contactless) [M/Chip Advance]	00 00 00	
DF 2A	Accumulator 2 CVR Dependency Data (Contact) [M/Chip Advance]	00 00 00	
DF 2B	Accumulator 2 CVR Dependency Data (Contactless) [M/Chip Advance]	00 00 00	
DF 2C	Counter 1 CVR Dependency Data (Contact) [M/Chip Advance]	00 00 00	
DF 2D	Counter 1 CVR Dependency Data (Contactless) [M/Chip Advance]	00 00 00	

Tag	Element name	Data	v2.x
DF 2E	Counter 2 CVR Dependency Data (Contact) [M/Chip Advance]	00 00 00	
DF 2F	Counter 2 CVR Dependency Data (Contactless) [M/Chip Advance]	00 00 00	
DF 30	Interface Enabling Switch [M/Chip Advance]	01	
DF 35	Security Limits Status (Contactless) [M/Chip Advance]	00	
DF 37	Security Limits Status Common [M/Chip Advance]	00	
DF 3C	CVR Issuer Discretionary Data (Contact) [M/Chip Advance]	00	
DF 3D	CVR Issuer Discretionary Data (Contactless) [M/Chip Advance]	00	
DF 3F	Read Record Filter (Contact) [M/Chip Advance]	00	
DF 40	Read Record Filter (Contactless) [M/Chip Advance]		
DF 41	DS Management Control [M/Chip Advance]	20	

* Tag value changes with card usage

1.5 Test Card 05 – Visa, Dual Interface, Credit, Colombia, COP

A Visa credit card with Issuer Country Code of ‘Colombia’ and Currency Code of ‘COP’.

The recommended transaction amount to generate a host approval is \$10.00.

1.5.1 Cardholder Verification Method List – AID (A0000000031010)

Cardholder Verification Method List (‘4203 5E03 1F03’)			
CVM	Verification Method	Conditions	If unsuccessful
1	Online PIN	Terminal supports CVM type	Next CVM
2	Signature (paper)	Terminal supports CVM type	Next CVM
3	No CVM required	Terminal supports CVM type	Fail

1.5.2 Application Tag data (Contact)

Tag	Element name	Data	v2.x
50	Application Label	56 49 53 41 20 43 52 45 44 49 54 - ‘VISA CREDIT’	
57	Track 2 Equivalent Data	40 04 89 00 00 00 00 02 D2 51 22 01 11 43 80 44 00 00 0F	
5A	Application Primary Account Number (PAN)	40 04 89 00 00 00 00 02	
5F 20	Cardholder Name	43 41 52 44 20 30 35 2F 2D 20 43 4F 50 20 20 20 20 20 20 20 20 20 20 20 20 20 - ‘CARD 05/- COP’	
5F 24	Application Expiration Date	25 12 31	
5F 25	Application Effective Date	xx xx xx	
5F 28	Issuer Country Code	01 70 - Colombia	
5F 2D	Language Preference	65 6E - ‘en’ (English)	
5F 30	Service Code	02 01	
5F 34	Application PAN Sequence Number	01	

Tag	Element name	Data	v2.x
82	Application Interchange Profile [VIS]	18 00 BYTE 1: b7 - Offline SDA NOT supported b6 - Offline DDA NOT supported b5 - Cardholder verification supported b4 - Terminal risk mgmt to be performed b3 - Issuer authentication NOT supported via EXTERNAL AUTH command b1 - Combined DDA / GEN AC NOT supported BYTE 2: b8 - Use for Visa NOT supported b7 - Is NOT Mobile handset	
84	Dedicated File (DF) Name	A0 00 00 00 03 10 10	
8C	Card Risk Management Data Object List 1 (CDOL1)	9F 02 06 9F 03 06 9F 1A 02 95 05 5F 2A 02 9A 03 9C 01 9F 37 04	
8D	Card Risk Management Data Object List 2 (CDOL2)	8A 02 9F 02 06 9F 03 06 9F 1A 02 95 05 5F 2A 02 9A 03 9C 01 9F 37 04	
8E	Cardholder Verification Method (CVM) List	00 00 00 00 00 00 00 00 42 03 5E 03 1F 03	
8F	Certification Authority Public Key Index	A1	
90	Issuer Public Key Certificate	EF 78 44 37 24 58 AE E7 67 E9 AF 5E F2 DD 46 FB 65 54 E1 34 90 11 D4 F5 53 14 46 30 AA 47 8B 6B 9C E7 EB 8C 8E DD 43 5B C5 05 22 DE D4 4D 80 37 D1 49 B4 AB 44 C2 DC EE F5 8A 2F 64 B4 ED B6 C1 26 4E 7B B0 2F DB 4D B8 0E 84 03 43 BD B1 B3 18 D9 41 EF DD 20 96 E8 AD 61 EB 12 D2 CA 04 C6 C4 FD 98 15 B6 E9 EE 2A 5F EB 76 D1 0A 36 7B C3 61 3E 77 DC EB C0 F6 B8 23 E0 17 1B F2 87 5C 15 15 07 2C 05 EB 17 AF 96 45 9E 34 6C 5C 33 C9 72 0D BD 6C B3 40 C4 D2 43 AA 32 CE 10 17 F9 D1 9E 5C 74 72 72 CA C9 CA 16 07 DB 0B 5D F5 EB 8C A0 A8 48 97 14 42 B2 44 E1 13 DC D8 C8 AD ED 88 AE E8 31 55 B1 F0 34 A7 A5 F3 24 73 BE 87 6A 53 7F EE 2D 11 D8 42 22 34 95 B4 43 4A E2 7D F7 B2 04 2F DC 5E 2D 06 98 C9 EB 89 9E D9 12 34 91 15 C0 71 39 8F E0 DE CB 57 94 E6	
94	Application File Locator (AFL)	10 01 01 00 10 02 05 01 B0 01 01 00	
9F 07	Application Usage Control	FF 00 BYTE 1: b8 - Domestic cash trans. valid b7 - Int'l cash transactions valid b6 - Domestic goods valid b5 - International goods valid b4 - Domestic services valid b3 - International services valid b2 - ATMs valid b1 - non-ATM terminals valid BYTE 2: b8 - Domestic cashback NOT allowed b7 - International cashback NOT allowed	
9F 08	Application Version Number [VIS]	00 96	

Tag	Element name	Data	v2.x
9F 0D	Issuer Action Code - Default	B8 50 AC 88 00	
9F 0E	Issuer Action Code - Denial	00 00 00 00 00	
9F 0F	Issuer Action Code - Online	B8 70 BC 98 00	
9F 10	Issuer Application Data [VSDC]	xx xx 0A xx xx xx xx *	
9F 11	Issuer Code Table Index	01	
9F 12	Application Preferred Name	56 69 73 61 20 43 72 65 64 69 74 - 'Visa Credit'	
9F 13	Last Online Application Transaction Counter (ATC) Register	xx xx *	
9F 17	Personal Identification Number (PIN) Try Counter	09	
9F 1F	Track 1 Discretionary Data	31 31 34 33 38 30 34 34 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30	
9F 26	Application Cryptogram (AC)	xx xx xx xx xx xx xx xx *	
9F 27	Cryptogram Information Data (CID)	80	
9F 32	Issuer Public Key Exponent	03	
9F 36	Application Transaction Counter (ATC)	xx xx *	
9F 44	Application Currency Exponent	02	
9F 46	ICC Public Key Certificate	1C 52 EE 7E 88 8C 49 DB 0E 7A CF EA 6E 00 93 9B 52 E3 04 C7 A2 47 B4 1E 14 A8 99 46 D5 87 BE A1 C7 29 39 D5 5F 79 80 95 85 11 B3 B4 A2 14 A7 76 42 DF 80 3F E5 E9 99 F8 E0 F2 CB B8 A8 B1 90 29 0B 1F 31 53 5B 13 22 62 F3 63 B6 54 88 E2 C5 F9 E2 A7 28 C5 5F B7 9B D8 7C 88 D2 D5 D2 35 19 BF 02 FF E1 72 6F F8 11 72 2A 38 CC 21 00 F7 04 98 D1 8C FD D0 1B 8D EC EC B7 85 7C C1 CF 69 5C 16 FA C9 76 2F 46 F2 B4 B4 05 4F AC 9C F2 F0 D9 DD 6A E9 9D A7 46 AB 4E 18 54 7D B2 23 CC F8 E5 05 8B 02 11 4D 75 41 EA 26 00 E0 17 EA 92 DB 76 29	
9F 47	ICC Public Key Exponent	03	
9F 49	Dynamic Data Authentication Data Object List (DDOL)	9F 37 04	
9F 4A	Static Data Authentication Tag List	82	
9F 51	Application Currency Code [VSDC]	01 70 - COP	
9F 52	Application Default Action [VSDC VIS 1.5]	C0 30 00 80 00 00	
9F 53	Consecutive Transaction Limit (International) [VSDC]	07	
9F 54	Cumulative Total Transaction Amount Limit [VSDC]	99 00 00 00 00 00	
9F 56	Issuer Authentication Indicator [VSDC]	00	
9F 57	Issuer Country Code [VSDC]	01 70 - COL	
9F 58	Consecutive Transaction Counter Limit [VSDC]	07	
9F 59	Consecutive Transaction Counter Upper Limit [VSDC]	12	
9F 5C	Cumulative Total Transaction Amount Upper Limit [VSDC]	99 99 99 99 99 00	
9F 5E	Consecutive Transaction International Upper Limit [VSDC]	12	
9F 68	Card Additional Processes [qVSDC VCPS 2.1]	4E 00 F0 00	

Tag	Element name	Data	v2.x
9F 72	Consecutive Transaction Limit (International-Country) [VSDC]	07	
BF 55	Contactless Counters Data Template	DF 11 01 02 DF 21 01 07 DF 31 01 12	
BF 56	Counters Data Template	DF 11 01 02 DF 21 01 07 DF 31 01 12	
BF 57	International Counters Data Template	DF 11 01 02 DF 21 01 07 DF 31 01 12 DF 51 01 09 DF 61 01 07	
BF 58	Amounts Data Template	DF 11 06 90 00 00 00 00 04 DF 21 06 99 00 00 00 00 DF 31 06 99 99 99 99 00	
BF 5B	Application Internal Data Template	DF 01 02 00 00	

* Tag value changes with card usage

1.5.3 Application Tag data (Contactless, Online)

Tag	Element name	Data	v2.x
50	Application Label	56 49 53 41 20 43 52 45 44 49 54 - 'VISA CREDIT'	
57	Track 2 Equivalent Data	40 04 89 00 00 00 02 D2 51 22 01 11 43 80 44 00 00 0F	
5A	Application Primary Account Number (PAN)	40 04 89 00 00 00 02	
5F 24	Application Expiration Date	25 12 31	
5F 2D	Language Preference	65 6E - 'en' (English)	
5F 34	Application PAN Sequence Number	01	
82	Application Interchange Profile [VCPS]	00 00 BYTE 1: b7 - Offline SDA (online Auth) NOT supported b6 - Offline DDA NOT supported BYTE 2: b8 - MSD NOT supported b7 - Is Mobile handset b6 - Is Contactless transaction	
84	Dedicated File (DF) Name	A0 00 00 00 03 10 10	
8F	Certification Authority Public Key Index	A1	
90	Issuer Public Key Certificate	EF 78 44 37 24 58 AE E7 67 E9 AF 5E F2 DD 46 FB 65 54 E1 34 90 11 D4 F5 53 14 46 30 AA 47 8B 6B 9C E7 EB 8C 8E DD 43 5B C5 05 22 DE D4 4D 80 37 D1 49 B4 AB 44 C2 DC EE F5 8A 2F 64 B4 ED B6 C1 26 4E 7B B0 2F DB 4D B8 0E 84 03 43 BD B1 B3 18 D9 41 EF DD 20 96 E8 AD 61 EB 12 D2 CA 04 C6 C4 FD 98 15 B6 E9 EE 2A 5F EB 76 D1 0A 36 7B C3 61 3E 77 DC EB C0 F6 B8 23 E0 17 1B F2 87 5C 15 15 07 2C 05 EB 17 AF 96 45 9E 34 6C 5C 33 C9 72 0D BD 6C B3 40 C4 D2 43 AA 32 CE 10 17 F9 D1 9E 5C 74 72 72 CA C9 CA 16 07 DB 0B 5D F5 EB 8C A0 A8 48 97 14 42 B2 44 E1 13 DC D8 C8 AD ED 88 AE E8 31 55 B1 F0 34 A7 A5 F3 24 73 BE 87 6A 53 7F EE 2D 11 D8 42 22 34 95 B4 43 4A E2 7D F7 B2 04 2F DC 5E 2D 06 98 C9 EB 89 9E D9 12 34 91 15 C0 71 39 8F E0 DE CB 57 94 E6	

Tag	Element name	Data	v2.x
94	Application File Locator (AFL)	10 04 07 00	
9F 10	Issuer Application Data [VSDC]	xx xx 0A xx xx xx xx *	
9F 13	Last Online Application Transaction Counter (ATC) Register	xx xx *	
9F 17	Personal Identification Number (PIN) Try Counter	09	
9F 26	Application Cryptogram (AC)	xx xx xx xx xx xx xx xx *	
9F 27	Cryptogram Information Data (CID)	80	
9F 32	Issuer Public Key Exponent	03	
9F 36	Application Transaction Counter (ATC)	xx xx *	
9F 38	Processing Options Data Object List (PDOL)	9F 66 04 9F 02 06 9F 03 06 9F 1A 02 95 05 5F 2A 02 9A 03 9C 01 9F 37 04	
9F 46	ICC Public Key Certificate	D2 0F 95 E6 1E FC 9F 4A 99 65 C7 98 DF CF D7 37 CC 41 8D 00 A8 26 52 E5 85 D6 1B D3 3B 9F 95 8F 27 A5 1C FF BF 33 22 A2 6C E7 FE 88 A9 9A 9A 9C DB F8 64 29 91 3E DA 88 51 61 75 D0 47 B4 F8 84 0D A9 EE 5F 54 00 D0 BE 28 23 19 02 A7 6F 8C EB CB CE 25 62 33 F0 53 64 7E 28 EC 43 D8 10 C7 16 69 64 62 A5 F8 CC 52 7F EF E9 CA 8E C3 22 16 F6 3E B7 4F 01 B7 F3 0E 68 35 FE 82 30 A8 16 C1 D6 0D 24 CD 42 A8 4B 2D E3 DD C2 A4 91 9D 30 AE C4 24 C1 79 DB 5F 78 A5 33 4F C9 A3 4C BA D0 8F 57 8A 12 33 0E 80 C7 DC 42 49 3F D2 CC 74 43 78 79	
9F 47	ICC Public Key Exponent	03	
9F 51	Application Currency Code [VSDC]	01 70 - COP	
9F 52	Application Default Action [VSDC VIS 1.5]	C0 30 00 80 00 00	
9F 53	Consecutive Transaction Limit (International) [VSDC]	07	
9F 54	Cumulative Total Transaction Amount Limit [VSDC]	99 00 00 00 00 00	
9F 56	Issuer Authentication Indicator [VSDC]	00	
9F 57	Issuer Country Code [VSDC]	01 70 - COL	
9F 58	Consecutive Transaction Counter Limit [VSDC]	07	
9F 59	Consecutive Transaction Counter Upper Limit [VSDC]	12	
9F 5A	Application Program Identifier	31 01 70 01 70	
9F 5C	Cumulative Total Transaction Amount Upper Limit [VSDC]	99 99 99 99 99 00	
9F 5E	Consecutive Transaction International Upper Limit [VSDC]	12	
9F 68	Card Additional Processes [qVSDC VCPS 2.1]	4E 00 F0 00	

Tag	Element name	Data	v2.x
9F 69	Card Authentication Related Data [qVSDC]	01 00 00 00 00 00 00 LAST TWO BYTES BYTE 1:" b8 - Online PIN NOT required b7 - Signature NOT required b6 - Do NOT go online if Offline Data Authentication fails and Reader is online capable b5 - Do NOT switch interface if Offline Data Authentication fails and Reader supports contact chip b4 - Do NOT go Online if Application Expired b3 - Do NOT switch interface for Cash Transactions b2 - Do NOT switch interface for Cashback Transactions b1 - Is valid for contactless ATM transactions BYTE 2: b8 - Consumer Device CVM NOT performed b7 - Card does NOT Support Issuer Update Processing at POS b2 - Is NOT valid at ATMs	
9F 6C	Card Transaction Qualifiers [qVSDC VCPS 2.1]	38 00 BYTE 1: b8 - Online PIN NOT required b7 - Signature NOT required b6 - Do go online if Offline Data Authentication fails and Reader is online capable b5 - Do switch interface if Offline Data Authentication fails and Reader supports contact chip b4 - Do go Online if Application Expired b3 - Do NOT switch interface for Cash Transactions b2 - Do NOT switch interface for Cashback Transactions b1 - Is valid for contactless ATM transactions BYTE 2: b8 - Consumer Device CVM NOT performed b7 - Card does NOT Support Issuer Update Processing at POS	
9F 6E	Form Factor Indicator [qVSDC]	20 70 00 00	
9F 72	Consecutive Transaction Limit (International-Country) [VSDC]	07	
BF 55	Contactless Counters Data Template	DF 11 01 02 DF 21 01 07 DF 31 01 12	
BF 56	Counters Data Template	DF 11 01 01 DF 21 01 07 DF 31 01 12	
BF 57	International Counters Data Template	DF 11 01 01 DF 21 01 07 DF 31 01 12 DF 51 01 08 DF 61 01 07	
BF 58	Amounts Data Template	DF 11 06 90 00 00 00 00 04 DF 21 06 99 00 00 00 00 DF 31 06 99 99 99 99 00	
BF 5B	Application Internal Data Template	DF 01 02 00 00	

* Tag value changes with card usage

1.6 Test Card 06 – Mastercard, Dual Interface, 2-AID, Credit, Switzerland, CHF

A Mastercard credit card with Issuer Country Code of ‘Switzerland’ and Currency Code of ‘CHF’.
 The recommended transaction amount to generate a host approval is \$20.00.

1.6.1 Cardholder Verification Method List – AID (A0000000041010)

Cardholder Verification Method List ('4103 4203 5E03 1F00 0000')			
CVM	Verification Method	Conditions	If unsuccessful
1	Offline Plaintext PIN	Terminal supports CVM type	Next CVM
2	Online PIN	Terminal supports CVM type	Next CVM
3	Signature (paper)	Terminal supports CVM type	Next CVM
4	No CVM required	Always	Fail
5	Fail CVM processing	Always	Fail

1.6.2 Application Tag data (Contact)

Tag	Element name	Data	v2.x
42	Issuer Identification Number (IIN)	52 18 41	
50	Application Label	4D 41 53 54 45 52 43 41 52 44 43 52 45 44 49 54 - 'MASTERCARDCREDIT'	
57	Track 2 Equivalent Data	52 18 41 00 00 00 00 08 D2 51 22 01 14 83 59 49 00 0F	
5A	Application Primary Account Number (PAN)	52 18 41 00 00 00 00 08	
5F 20	Cardholder Name	43 41 52 44 20 30 36 2F 2D 20 43 48 46 20 20 20 20 20 20 20 20 20 20 20 20 20 - 'CARD 06/- CHF'	
5F 24	Application Expiration Date	25 12 31	
5F 25	Application Effective Date	xx xx xx	
5F 28	Issuer Country Code	07 56 - Switzerland	
5F 2D	Language Preference	65 6E - 'en' (English)	
5F 30	Service Code	02 01	
5F 34	Application PAN Sequence Number	01	
5F 55	Issuer Country Code (alpha2 format)	43 48 - 'CH'	
82	Application Interchange Profile	18 00 BYTE 1: b7 - Offline SDA NOT supported b6 - Offline DDA NOT supported b5 - Cardholder verification supported b4 - Terminal risk mgmt to be performed b3 - Issuer authentication NOT supported via EXTERNAL AUTH command b1 - Combined DDA / GEN AC NOT supported BYTE 2: b8 - EMV Contactless NOT supported	
84	Dedicated File (DF) Name	A0 00 00 00 04 10 10	
87	Application Priority Indicator	01	
8C	Card Risk Management Data Object List 1 (CDOL1)	9F 02 06 9F 03 06 9F 1A 02 95 05 5F 2A 02 9A 03 9C 01 9F 37 04 9F 35 01 9F 45 02 9F 4C 08 9F 34 03 9F 21 03 9F 7C 14	
8D	Card Risk Management Data Object List 2 (CDOL2)	91 0A 8A 02 95 05 9F 37 04 9F 4C 08	
8E	Cardholder Verification Method (CVM) List	00 00 00 00 00 00 00 00 41 03 42 03 5E 03 1F 00 00 00	

Tag	Element name	Data	v2.x
94	Application File Locator (AFL)	10 02 04 00	
94	Application File Locator (AFL)	10 02 04 00	
9F 07	Application Usage Control	FF C0 BYTE 1: b8 - Domestic cash trans. valid b7 - Int'l cash transactions valid b6 - Domestic goods valid b5 - International goods valid b4 - Domestic services valid b3 - International services valid b2 - ATMs valid b1 - non-ATM terminals valid BYTE 2: b8 - Domestic cashback allowed b7 - International cashback allowed	
9F 08	Application Version Number	00 02	
9F 0D	Issuer Action Code - Default	B0 50 9C 88 00	
9F 0E	Issuer Action Code - Denial	00 00 00 00 00	
9F 0F	Issuer Action Code - Online	B0 70 9C 98 00	
9F 10	Issuer Application Data [M/Chip Advance]	xx 10 xx xx xx xx xx xx xx xx xx xx xx xx xx xx xx xx *	
9F 11	Issuer Code Table Index	01	
9F 12	Application Preferred Name	4D 61 73 74 65 72 63 61 72 64 63 72 65 64 69 74 - 'Mastercardcredit'	
9F 14	Counter 1 Lower Limit [Mastercard]	00	
9F 17	Personal Identification Number (PIN) Try Counter	09	
9F 23	Counter 1 Upper Limit [Mastercard]	00	
9F 26	Application Cryptogram (AC)	xx xx xx xx xx xx xx xx *	
9F 27	Cryptogram Information Data (CID)	80	
9F 36	Application Transaction Counter (ATC)	00 06	
9F 42	Application Currency Code	07 56 - CHF	
9F 4D	Transaction Log Entry	0B 0A	
9F 4F	Transaction Log Format	9F 27 01 9F 02 06 5F 2A 02 9A 03 9F 36 02 9F 52 06 DF 3E 01 9F 21 03 9F 7C 14	
9F 6E	Third Party Data [Mastercard]	07 56 00 00 30 30 00	
9F 7E	Application Life Cycle Data [Mastercard]	04 10 0B 14 00 01 00 00 50 17 79 00 A0 00 00 00 04 10 10 00	
C3	Card Issuer Action Code (Contact) - Decline [M/Chip Advance]	00 00 00	
C4	Card Issuer Action Code (Contact) - Default [M/Chip Advance]	65 00 00	
C5	Card Issuer Action Code (Contact) - Online [M/Chip Advance]	06 FB 00	
C6	PIN Try Limit [M/Chip Advance]	09	
C7	CDOL1 Related Data Length [Mastercard]	42	
C8	CRM Country Code [Mastercard]	07 56 - CHE	
C9	Accumulator 1 Currency Code [Mastercard]	07 56 - CHF	
CA	Accumulator 1 Lower Limit [Mastercard]	00 00 00 00 00 00	
CB	Accumulator 1 Upper Limit [Mastercard]	00 00 00 00 00 00	
CD	Card Issuer Action Code (Contactless) - Default [M/Chip Advance]	00 58 00	
CE	Card Issuer Action Code (Contactless) - Online [M/Chip Advance]	06 F8 00	

Tag	Element name	Data	v2.x
CF	Card Issuer Action Code (Contactless) - Decline [M/Chip Advance]	08 00 00	
D1	Accumulator 1 Currency Conversion Table [Mastercard]	07 56 00 01 00 07 56 00 01 00 07 56 00 01 00 07 56 00 01 00 07 56 00 01 00	
D3	Additional Check Table [Mastercard]	00 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF	
D5	Application Control [M/Chip Advance]	84 00 80 00 C6 02	
D6	Default ARPC Response Code [M/Chip Advance]	00 10	
D7	Application Control [M/Chip Advance]	00 00 80 00 E6 02	
D9	Application File Locator (Contactless)	08 01 01 00 10 01 01 00	
DE	Log Data Table [M/Chip Advance]	00 00 00 00 00 00 00 00 00	
DF 02	Security Limits Status (Contact) [M/Chip Advance]	00	
DF 11	Accumulator 1 Control (Contact) [M/Chip Advance]	C1	
DF 12	Accumulator 1 Control (Contactless) [M/Chip Advance]	C1	
DF 14	Accumulator 2 Control (Contact) [M/Chip Advance]	00	
DF 15	Accumulator 2 Control (Contactless) [M/Chip Advance]	00	
DF 16	Accumulator 2 Currency Code [Mastercard]	07 56 - CHF	
DF 17	Accumulator 2 Currency Conversion Table [Mastercard]	07 56 00 01 00 07 56 00 01 00 07 56 00 01 00 07 56 00 01 00 07 56 00 01 00	
DF 18	Accumulator 2 Lower Limit [Mastercard]	00 00 00 00 00 00	
DF 19	Accumulator 2 Upper Limit [Mastercard]	00 00 00 00 00 00	
DF 1A	Counter 1 Control (Contact) [M/Chip Advance]	C1	
DF 1B	Counter 1 Control (Contactless) [M/Chip Advance]	C1	
DF 1D	Counter 2 Control (Contact) [M/Chip Advance]	00	
DF 1E	Counter 2 Control (Contactless) [M/Chip Advance]	00	
DF 1F	Counter 2 Lower Limit [Mastercard]	00	
DF 21	Counter 2 Upper Limit [Mastercard]	00	
DF 22	MTA CVM (Contact) [M/Chip Advance]	00 00 00 00 00 00	
DF 23	MTA CVM (Contactless) [M/Chip Advance]	00 00 00 00 00 00	
DF 24	MTA Currency Code [M/Chip Advance]	07 56	
DF 25	MTA NoCVM (Contact) [M/Chip Advance]	00 00 00 00 00 00	
DF 26	MTA NoCVM (Contactless) [M/Chip Advance]	00 00 00 00 00 00	
DF 27	Number Of Days Offline Limit [M/Chip Advance]	00 00	
DF 28	Accumulator 1 CVR Dependency Data (Contact) [M/Chip Advance]	00 00 00	
DF 29	Accumulator 1 CVR Dependency Data (Contactless) [M/Chip Advance]	00 00 00	
DF 2A	Accumulator 2 CVR Dependency Data (Contact) [M/Chip Advance]	00 00 00	
DF 2B	Accumulator 2 CVR Dependency Data (Contactless) [M/Chip Advance]	00 00 00	
DF 2C	Counter 1 CVR Dependency Data (Contact) [M/Chip Advance]	00 00 00	

Tag	Element name	Data	v2.x
DF 2D	Counter 1 CVR Dependency Data (Contactless) [M/Chip Advance]	00 00 00	
DF 2E	Counter 2 CVR Dependency Data (Contact) [M/Chip Advance]	00 00 00	
DF 2F	Counter 2 CVR Dependency Data (Contactless) [M/Chip Advance]	00 00 00	
DF 30	Interface Enabling Switch [M/Chip Advance]	03	
DF 35	Security Limits Status (Contactless) [M/Chip Advance]	00	
DF 37	Security Limits Status Common [M/Chip Advance]	00	
DF 3C	CVR Issuer Discretionary Data (Contact) [M/Chip Advance]	00	
DF 3D	CVR Issuer Discretionary Data (Contactless) [M/Chip Advance]	01	
DF 3F	Read Record Filter (Contact) [M/Chip Advance]	00	
DF 40	Read Record Filter (Contactless) [M/Chip Advance]	00	
DF 41	DS Management Control [M/Chip Advance]	20	

* Tag value changes with card usage

1.6.3 Cardholder Verification Method List – AID (A0000000041010) CL, Online

Cardholder Verification Method List ('0203 1F03 0000')			
CVM	Verification Method	Conditions	If unsuccessful
1	Online PIN	Terminal supports CVM type	Next CVM
2	No CVM required	Terminal supports CVM type	Fail
3	Fail CVM Processing	Always	Fail

1.6.4 Application Tag data (Contactless, Online)

Tag	Element name	Data	v2.x
42	Issuer Identification Number (IIN)	52 18 41	
50	Application Label	4D 41 53 54 45 52 43 41 52 44 43 52 45 44 49 54 - 'MASTERCARDCREDIT'	
56	Track 1 Equivalent Data [Mastercard]	42 35 32 31 38 34 31 30 30 30 30 30 30 30 30 30 38 5E 20 2F 5E 32 35 31 32 32 30 31 31 34 38 33 35 39 34 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30	
57	Track 2 Equivalent Data	52 18 41 00 00 00 00 08 D2 51 22 01 14 83 59 49 00 0F	
5A	Application Primary Account Number (PAN)	52 18 41 00 00 00 00 08	
5F 24	Application Expiration Date	25 12 31	
5F 25	Application Effective Date	xx xx xx	
5F 28	Issuer Country Code	07 56 - Switzerland	
5F 2D	Language Preference	65 6E - 'en' (English)	
5F 34	Application PAN Sequence Number	01	
5F 55	Issuer Country Code (alpha2 format)	43 48 - 'CH'	

Tag	Element name	Data	v2.x
82	Application Interchange Profile	18 80 BYTE 1: b7 - Offline SDA NOT supported b6 - Offline DDA NOT supported b5 - Cardholder verification supported b4 - Terminal risk mgmt to be performed b3 - Issuer authentication NOT supported via EXTERNAL AUTH command b1 - Combined DDA / GEN AC NOT supported BYTE 2: b8 - EMV Contactless supported	
84	Dedicated File (DF) Name	A0 00 00 00 04 10 10	
87	Application Priority Indicator	01	
8C	Card Risk Management Data Object List 1 (CDOL1)	9F 02 06 9F 03 06 9F 1A 02 95 05 5F 2A 02 9A 03 9C 01 9F 37 04 9F 35 01 9F 45 02 9F 4C 08 9F 34 03 9F 21 03 9F 7C 14	
8D	Card Risk Management Data Object List 2 (CDOL2)	91 0A 8A 02 95 05 9F 37 04 9F 4C 08	
8E	Cardholder Verification Method (CVM) List	00 00 00 00 00 00 00 00 02 03 1F 03 00 00 00 00 00 00	
94	Application File Locator (AFL)	08 01 01 00 10 01 01 00	
9F 07	Application Usage Control	FF C0 BYTE 1: b8 - Domestic cash trans. valid b7 - Int'l cash transactions valid b6 - Domestic goods valid b5 - International goods valid b4 - Domestic services valid b3 - International services valid b2 - ATMs valid b1 - non-ATM terminals valid BYTE 2: b8 - Domestic cashback allowed b7 - International cashback allowed	
9F 08	Application Version Number	00 02	
9F 0D	Issuer Action Code - Default	B4 50 84 00 00	
9F 0E	Issuer Action Code - Denial	00 00 00 00 00	
9F 0F	Issuer Action Code - Online	B4 70 84 80 00	
9F 10	Issuer Application Data [M/Chip Advance]	xx 10 xx xx xx xx xx xx xx xx xx xx xx xx xx xx xx xx *	
9F 11	Issuer Code Table Index	01	
9F 12	Application Preferred Name	4D 61 73 74 65 72 63 61 72 64 63 72 65 64 69 74 - 'Mastercardcredit'	
9F 14	Counter 1 Lower Limit [Mastercard]	00	
9F 17	Personal Identification Number (PIN) Try Counter	09	
9F 23	Counter 1 Upper Limit [Mastercard]	00	
9F 26	Application Cryptogram (AC)	xx xx xx xx xx xx xx xx *	
9F 27	Cryptogram Information Data (CID)	80	
9F 36	Application Transaction Counter (ATC)	00 04	
9F 42	Application Currency Code	07 56 - CHF	
9F 4A	Static Data Authentication Tag List	82	
9F 4D	Transaction Log Entry	0B 0A	
9F 4F	Transaction Log Format	9F 27 01 9F 02 06 5F 2A 02 9A 03 9F 36 02 9F 52 06 DF 3E 01 9F 21 03 9F 7C 14	

Tag	Element name	Data	v2.x
9F 62	Track 1 Bitmap for CVC3 (PCVC3 Track 1) [Mastercard]	00 00 00 00 03 80	
9F 63	Track 1 Bitmap for UN and ATC (PUNATC Track 1) [Mastercard]	00 00 00 01 FC 00	
9F 64	Track 1 Number of ATC Digits (NATC Track 1) [Mastercard]	02	
9F 65	Track 2 Bitmap for CVC3 (PCVC3 Track 2) [Mastercard]	00 0E	
9F 66	Track 2 Bitmap for UN and ATC (PUNATC Track 2) [Mastercard]	07 F0	
9F 67	Track 2 Number of ATC Digits (NATC Track 2) [Mastercard]	02	
9F 6B	Track 2 Equivalent Data [Mastercard]	52 18 41 00 00 00 00 08 D2 51 22 01 14 00 00 00 00 00 0F	
9F 6C	Application Version [Mastercard]	00 01	
9F 6E	Third Party Data [Mastercard]	07 56 00 00 30 30 00	
9F 7E	Application Life Cycle Data [Mastercard]	04 10 0B 14 00 01 00 00 50 17 79 00 A0 00 00 00 04 10 10 00	
C3	Card Issuer Action Code (Contact) - Decline [M/Chip Advance]	00 00 00	
C4	Card Issuer Action Code (Contact) - Default [M/Chip Advance]	65 00 00	
C5	Card Issuer Action Code (Contact) - Online [M/Chip Advance]	06 FB 00	
C6	PIN Try Limit [M/Chip Advance]	09	
C7	CDOL1 Related Data Length [Mastercard]	42	
C8	CRM Country Code [Mastercard]	07 56 - CHE	
C9	Accumulator 1 Currency Code [Mastercard]	07 56 - CHF	
CA	Accumulator 1 Lower Limit [Mastercard]	00 00 00 00 00 00	
CB	Accumulator 1 Upper Limit [Mastercard]	00 00 00 00 00 00	
CD	Card Issuer Action Code (Contactless) - Default [M/Chip Advance]	00 58 00	
CE	Card Issuer Action Code (Contactless) - Online [M/Chip Advance]	06 F8 00	
CF	Card Issuer Action Code (Contactless) - Decline [M/Chip Advance]	08 00 00	
D1	Accumulator 1 Currency Conversion Table [Mastercard]	07 56 00 01 00 07 56 00 01 00 07 56 00 01 00 07 56 00 01 00 07 56 00 01 00	
D3	Additional Check Table [Mastercard]	00 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF	
D5	Application Control [M/Chip Advance]	84 00 80 00 C6 02	
D6	Default ARPC Response Code [M/Chip Advance]	00 10	
D7	Application Control [M/Chip Advance]	00 00 80 00 E6 02	
DF 02	Security Limits Status (Contact) [M/Chip Advance]	00	

* Tag value changes with card usage

1.6.5 Cardholder Verification Method List – AID (A000000043060)

Cardholder Verification Method List ('4103 4203 5E03 0000')			
CVM	Verification Method	Conditions	If unsuccessful
1	Offline Plaintext PIN	Terminal supports CVM type	Next CVM
2	Online PIN	Terminal supports CVM type	Next CVM
3	Signature (paper)	Terminal supports CVM type	Next CVMil
4	Fail CVM Processing	Always	Fail

1.6.6 Application Tag data (Contact)

Tag	Element name	Data	v2.x
42	Issuer Identification Number (IIN)	67 67 74	
50	Application Label	4D 41 45 53 54 52 4F 20 20 20 20 20 20 20 20 20 - 'MAESTRO'	
57	Track 2 Equivalent Data	67 67 74 00 00 00 00 00 3D 25 12 20 11 48 35 94 90 00 0F	
5A	Application Primary Account Number (PAN)	67 67 74 00 00 00 00 00 3F	
5F 20	Cardholder Name	43 41 52 44 20 30 36 2F 2D 20 43 48 46 20 20 20 20 20 20 20 20 20 20 20 20 - 'CARD 06/- CHF'	
5F 24	Application Expiration Date	25 12 31	
5F 25	Application Effective Date	xx xx xx	
5F 28	Issuer Country Code	07 56 - Switzerland	
5F 2D	Language Preference	65 6E - 'en' (English)	
5F 30	Service Code	02 01	
5F 34	Application PAN Sequence Number	01	
5F 55	Issuer Country Code (alpha2 format)	43 48 - 'CH'	
82	Application Interchange Profile	18 00 BYTE 1: b7 - Offline SDA NOT supported b6 - Offline DDA NOT supported b5 - Cardholder verification supported b4 - Terminal risk mgmt to be performed b3 - Issuer authentication NOT supported via EXTERNAL AUTH command b1 - Combined DDA / GEN AC NOT supported BYTE 2: b8 - EMV Contactless NOT supported	
84	Dedicated File (DF) Name	A0 00 00 00 04 30 60	
87	Application Priority Indicator	02	
8C	Card Risk Management Data Object List 1 (CDOL1)	9F 02 06 9F 03 06 9F 1A 02 95 05 5F 2A 02 9A 03 9C 01 9F 37 04 9F 35 01 9F 45 02 9F 4C 08 9F 34 03 9F 21 03 9F 7C 14	
8D	Card Risk Management Data Object List 2 (CDOL2)	91 0A 8A 02 95 05 9F 37 04 9F 4C 08	
8E	Cardholder Verification Method (CVM) List	00 00 00 00 00 00 00 00 41 03 42 03 5E 03 00 00 00 00	
94	Application File Locator (AFL)	10 02 04 00	
94	Application File Locator (AFL)	10 02 04 00	

Tag	Element name	Data	v2.x
9F 07	Application Usage Control	FF C0 BYTE 1: b8 - Domestic cash trans. valid b7 - Int'l cash transactions valid b6 - Domestic goods valid b5 - International goods valid b4 - Domestic services valid b3 - International services valid b2 - ATMs valid b1 - non-ATM terminals valid BYTE 2: b8 - Domestic cashback allowed b7 - International cashback allowed	
9F 08	Application Version Number	00 02	
9F 0D	Issuer Action Code - Default	B0 50 9C 88 00	
9F 0E	Issuer Action Code - Denial	00 00 00 00 00	
9F 0F	Issuer Action Code - Online	B0 70 9C 98 00	
9F 10	Issuer Application Data [M/Chip Advance]	xx 10 xx xx xx xx xx xx xx xx xx xx xx xx xx xx xx xx *	
9F 11	Issuer Code Table Index	01	
9F 12	Application Preferred Name	4D 61 65 73 74 72 6F - 'Maestro'	
9F 14	Counter 1 Lower Limit [Mastercard]	00	
9F 17	Personal Identification Number (PIN) Try Counter	09	
9F 23	Counter 1 Upper Limit [Mastercard]	00	
9F 26	Application Cryptogram (AC)	xx xx xx xx xx xx xx xx *	
9F 27	Cryptogram Information Data (CID)	80	
9F 36	Application Transaction Counter (ATC)	00 06	
9F 42	Application Currency Code	07 56 - CHF	
9F 4D	Transaction Log Entry	0B 0A	
9F 4F	Transaction Log Format	9F 27 01 9F 02 06 5F 2A 02 9A 03 9F 36 02 9F 52 06 DF 3E 01 9F 21 03 9F 7C 14	
9F 6E	Third Party Data [Mastercard]	07 56 00 00 30 30 00	
9F 7E	Application Life Cycle Data [Mastercard]	04 10 0B 14 00 01 00 00 50 17 79 00 A0 00 00 00 04 30 60 00	
C3	Card Issuer Action Code (Contact) - Decline [M/Chip Advance]	00 00 00	
C4	Card Issuer Action Code (Contact) - Default [M/Chip Advance]	65 00 00	
C5	Card Issuer Action Code (Contact) - Online [M/Chip Advance]	06 FB 00	
C6	PIN Try Limit [M/Chip Advance]	09	
C7	CDOL1 Related Data Length [Mastercard]	42	
C8	CRM Country Code [Mastercard]	07 56 - CHE	
C9	Accumulator 1 Currency Code [Mastercard]	07 56 - CHF	
CA	Accumulator 1 Lower Limit [Mastercard]	00 00 00 00 00 00	
CB	Accumulator 1 Upper Limit [Mastercard]	00 00 00 00 00 00	
CD	Card Issuer Action Code (Contactless) - Default [M/Chip Advance]	00 58 00	
CE	Card Issuer Action Code (Contactless) - Online [M/Chip Advance]	06 F8 00	
CF	Card Issuer Action Code (Contactless) - Decline [M/Chip Advance]	08 00 00	

Tag	Element name	Data	v2.x
D1	Accumulator 1 Currency Conversion Table [Mastercard]	07 56 00 01 00 07 56 00 01 00 07 56 00 01 00 07 56 00 01 00 07 56 00 01 00	
D3	Additional Check Table [Mastercard]	00 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF	
D5	Application Control [M/Chip Advance]	84 00 80 00 C6 02	
D6	Default ARPC Response Code [M/Chip Advance]	00 10	
D7	Application Control [M/Chip Advance]	00 00 80 00 E6 02	
D9	Application File Locator (Contactless)	08 01 01 00 10 01 01 00	
DE	Log Data Table [M/Chip Advance]	00 00 00 00 00 00 00 00 00	
DF 02	Security Limits Status (Contact) [M/Chip Advance]	00	
DF 11	Accumulator 1 Control (Contact) [M/Chip Advance]	C1	
DF 12	Accumulator 1 Control (Contactless) [M/Chip Advance]	C1	
DF 14	Accumulator 2 Control (Contact) [M/Chip Advance]	00	
DF 15	Accumulator 2 Control (Contactless) [M/Chip Advance]	00	
DF 16	Accumulator 2 Currency Code [Mastercard]	07 56	
DF 17	Accumulator 2 Currency Conversion Table [Mastercard]	07 56 00 01 00 07 56 00 01 00 07 56 00 01 00 07 56 00 01 00 07 56 00 01 00	
DF 18	Accumulator 2 Lower Limit [Mastercard]	00 00 00 00 00 00	
DF 19	Accumulator 2 Upper Limit [Mastercard]	00 00 00 00 00 00	
DF 1A	Counter 1 Control (Contact) [M/Chip Advance]	C1	
DF 1B	Counter 1 Control (Contactless) [M/Chip Advance]	C1	
DF 1D	Counter 2 Control (Contact) [M/Chip Advance]	00	
DF 1E	Counter 2 Control (Contactless) [M/Chip Advance]	00	
DF 1F	Counter 2 Lower Limit [Mastercard]	00	
DF 21	Counter 2 Upper Limit [Mastercard]	00	
DF 22	MTA CVM (Contact) [M/Chip Advance]	00 00 00 00 00 00	
DF 23	MTA CVM (Contactless) [M/Chip Advance]	00 00 00 00 00 00	
DF 24	MTA Currency Code [M/Chip Advance]	07 56	
DF 25	MTA NoCVM (Contact) [M/Chip Advance]	00 00 00 00 00 00	
DF 26	MTA NoCVM (Contactless) [M/Chip Advance]	00 00 00 00 00 00	
DF 27	Number Of Days Offline Limit [M/Chip Advance]	00 00	
DF 28	Accumulator 1 CVR Dependency Data (Contact) [M/Chip Advance]	00 00 00	
DF 29	Accumulator 1 CVR Dependency Data (Contactless) [M/Chip Advance]	00 00 00	
DF 2A	Accumulator 2 CVR Dependency Data (Contact) [M/Chip Advance]	00 00 00	
DF 2B	Accumulator 2 CVR Dependency Data (Contactless) [M/Chip Advance]	00 00 00	
DF 2C	Counter 1 CVR Dependency Data (Contact) [M/Chip Advance]	00 00 00	
DF 2D	Counter 1 CVR Dependency Data (Contactless) [M/Chip Advance]	00 00 00	

Tag	Element name	Data	v2.x
DF 2E	Counter 2 CVR Dependency Data (Contact) [M/Chip Advance]	00 00 00	
DF 2F	Counter 2 CVR Dependency Data (Contactless) [M/Chip Advance]	00 00 00	
DF 30	Interface Enabling Switch [M/Chip Advance]	03	
DF 35	Security Limits Status (Contactless) [M/Chip Advance]	00	
DF 37	Security Limits Status Common [M/Chip Advance]	00	
DF 3C	CVR Issuer Discretionary Data (Contact) [M/Chip Advance]	00	
DF 3D	CVR Issuer Discretionary Data (Contactless) [M/Chip Advance]	01	
DF 3F	Read Record Filter (Contact) [M/Chip Advance]	00	
DF 40	Read Record Filter (Contactless) [M/Chip Advance]	00	
DF 41	DS Management Control [M/Chip Advance]	20	

* Tag value changes with card usage

1.6.7 Cardholder Verification Method List – AID (A000000043060) CL, Online

Cardholder Verification Method List ('0203 1F03 0000')			
CVM	Verification Method	Conditions	If unsuccessful
1	Online PIN	Terminal supports CVM type	Next CVM
2	No CVM required	Terminal supports CVM type	Fail
3	Fail CVM Processing	Always	Fail

1.6.8 Application Tag data (Contactless, Online)

Tag	Element name	Data	v2.x
42	Issuer Identification Number (IIN)	67 67 74	
50	Application Label	4D 41 45 53 54 52 4F 20 20 20 20 20 20 20 20 20 - 'MAESTRO'	
56	Track 1 Equivalent Data [Mastercard]	42 35 32 31 38 34 31 30 30 30 30 30 30 30 30 30 38 5E 20 2F 5E 32 35 31 32 32 30 31 31 34 38 33 35 39 34 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30	
57	Track 2 Equivalent Data	67 67 74 00 00 00 00 00 3D 52 12 20 11 48 35 94 90 0F	
5A	Application Primary Account Number (PAN)	67 67 74 00 00 00 00 00 3F	
5F 24	Application Expiration Date	25 12 31	
5F 25	Application Effective Date	xx xx xx	
5F 28	Issuer Country Code	07 56 - Switzerland	
5F 2D	Language Preference	65 6E - 'en' (English)	
5F 34	Application PAN Sequence Number	01	
5F 55	Issuer Country Code (alpha2 format)	43 48 - 'CH'	

Tag	Element name	Data	v2.x
82	Application Interchange Profile	18 80 BYTE 1: b7 - Offline SDA NOT supported b6 - Offline DDA NOT supported b5 - Cardholder verification supported b4 - Terminal risk mgmt to be performed b3 - Issuer authentication NOT supported via EXTERNAL AUTH command b1 - Combined DDA / GEN AC NOT supported BYTE 2: b8 - EMV Contactless supported	
84	Dedicated File (DF) Name	A0 00 00 00 04 30 60	
87	Application Priority Indicator	02	
8C	Card Risk Management Data Object List 1 (CDOL1)	9F 02 06 9F 03 06 9F 1A 02 95 05 5F 2A 02 9A 03 9C 01 9F 37 04 9F 35 01 9F 45 02 9F 4C 08 9F 34 03 9F 21 03 9F 7C 14	
8D	Card Risk Management Data Object List 2 (CDOL2)	91 0A 8A 02 95 05 9F 37 04 9F 4C 08	
8E	Cardholder Verification Method (CVM) List	00 00 00 00 00 00 00 00 02 03 1F 03 00 00 00 00 00 00	
94	Application File Locator (AFL)	08 01 01 00 10 01 01 00	
9F 07	Application Usage Control	FF 00 BYTE 1: b8 - Domestic cash trans. valid b7 - Int'l cash transactions valid b6 - Domestic goods valid b5 - International goods valid b4 - Domestic services valid b3 - International services valid b2 - ATMs valid b1 - non-ATM terminals valid BYTE 2: b8 - Domestic cashback NOT allowed b7 - International cashback NOT allowed	
9F 08	Application Version Number	00 02	
9F 0D	Issuer Action Code - Default	B4 50 84 00 00	
9F 0E	Issuer Action Code - Denial	00 00 00 00 00	
9F 0F	Issuer Action Code - Online	B4 70 84 80 00	
9F 10	Issuer Application Data [M/Chip Advance]	xx 10 xx xx xx xx xx xx xx xx xx xx xx xx xx xx xx xx *	
9F 11	Issuer Code Table Index	01	
9F 12	Application Preferred Name	4D 61 65 73 74 72 6F - 'Maestro'	
9F 14	Counter 1 Lower Limit [Mastercard]	00	
9F 17	Personal Identification Number (PIN) Try Counter	09	
9F 23	Counter 1 Upper Limit [Mastercard]	00	
9F 26	Application Cryptogram (AC)	xx xx xx xx xx xx xx xx *	
9F 27	Cryptogram Information Data (CID)	80	
9F 36	Application Transaction Counter (ATC)	00 04	
9F 42	Application Currency Code	07 56 - CHF	
9F 4A	Static Data Authentication Tag List	82	
9F 4D	Transaction Log Entry	0B 0A	
9F 4F	Transaction Log Format	9F 27 01 9F 02 06 5F 2A 02 9A 03 9F 36 02 9F 52 06 DF 3E 01 9F 21 03 9F 7C 14	
9F 62	Track 1 Bitmap for CVC3 (PCVC3 Track 1) [Mastercard]	00 00 00 00 03 80	

Tag	Element name	Data	v2.x
9F 63	Track 1 Bitmap for UN and ATC (PUNATC Track 1) [Mastercard]	00 00 00 01 FC 00	
9F 64	Track 1 Number of ATC Digits (NATC Track 1) [Mastercard]	02	
9F 65	Track 2 Bitmap for CVC3 (PCVC3 Track 2) [Mastercard]	00 0E	
9F 66	Track 2 Bitmap for UN and ATC (PUNATC Track 2) [Mastercard]	07 F0	
9F 67	Track 2 Number of ATC Digits (NATC Track 2) [Mastercard]	02	
9F 6B	Track 2 Equivalent Data [Mastercard]	52 18 41 00 00 00 00 08 D2 51 22 01 14 00 00 00 00 00 0F	
9F 6C	Application Version [Mastercard]	00 01	
9F 6E	Third Party Data [Mastercard]	07 56 00 00 30 30 00	
9F 7E	Application Life Cycle Data [Mastercard]	04 10 0B 14 00 01 00 00 50 17 79 00 A0 00 00 00 04 30 60 00	
C3	Card Issuer Action Code (Contact) - Decline [M/Chip Advance]	00 00 00	
C4	Card Issuer Action Code (Contact) - Default [M/Chip Advance]	65 00 00	
C5	Card Issuer Action Code (Contact) - Online [M/Chip Advance]	06 FB 00	
C6	PIN Try Limit [M/Chip Advance]	09	
C7	CDOL1 Related Data Length [Mastercard]	42	
C8	CRM Country Code [Mastercard]	07 56 - CHE	
C9	Accumulator 1 Currency Code [Mastercard]	07 56 - CHF	
CA	Accumulator 1 Lower Limit [Mastercard]	00 00 00 00 00 00	
CB	Accumulator 1 Upper Limit [Mastercard]	00 00 00 00 00 00	
CD	Card Issuer Action Code (Contactless) - Default [M/Chip Advance]	00 58 00	
CE	Card Issuer Action Code (Contactless) - Online [M/Chip Advance]	06 F8 00	
CF	Card Issuer Action Code (Contactless) - Decline [M/Chip Advance]	08 00 00	
D1	Accumulator 1 Currency Conversion Table [Mastercard]	07 56 00 01 00 07 56 00 01 00 07 56 00 01 00 07 56 00 01 00 07 56 00 01 00	
D3	Additional Check Table [Mastercard]	00 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF	
D5	Application Control [M/Chip Advance]	84 00 80 00 C6 02	
D6	Default ARPC Response Code [M/Chip Advance]	00 10	
D7	Application Control [M/Chip Advance]	00 00 80 00 E6 02	
DF 02	Security Limits Status (Contact) [M/Chip Advance]	00	

* Tag value changes with card usage

1.7 Test Card 07 – Maestro, Dual Interface, 2-AID, Debit, Great Britain, GBP

A Maestro debit card with Issuer Country Code of 'Great Britain' and Currency Code of 'GBP'.

The recommended transaction amount to generate a host approval is \$20.00.

1.7.1 Cardholder Verification Method List – AID (A0000000043060)

Cardholder Verification Method List ('4103 4203 1E03 1F03')			
CVM	Verification Method	Conditions	If unsuccessful
1	Offline Plaintext PIN	Terminal supports CVM type	Next CVM
2	Online PIN	Terminal supports CVM type	Next CVM
3	Signature (paper)	Terminal supports CVM type	Fail
4	No CVM required	Terminal supports CVM type	Fail

1.7.2 Application Tag data (Contact)

Tag	Element name	Data	v2.x
50	Application Label	4D 41 45 53 54 52 4F	'MAESTRO'
57	Track 2 Equivalent Data	67 67 74 00 00 00 00 00 3D 25 12 22 00 83 55 06 06 00 0F	
5A	Application Primary Account Number (PAN)	67 67 74 00 00 00 00 00 3F	
5F 20	Cardholder Name	43 41 52 44 20 30 37 2F 2D 20 47 42 50 20 20 20 20 20 20 20 20 20 20 20 - 'CARD 07/- GBP'	
5F 24	Application Expiration Date	25 12 31	
5F 25	Application Effective Date	xx xx xx	
5F 28	Issuer Country Code	08 26	Great Britain
5F 2D	Language Preference	65 6E	'en' (English)
5F 30	Service Code	02 20	
5F 34	Application PAN Sequence Number	01	
82	Application Interchange Profile	18 00 BYTE 1: b7 - Offline SDA NOT supported b6 - Offline DDA NOT supported b5 - Cardholder verification supported b4 - Terminal risk mgmt to be performed b3 - Issuer authentication NOT supported via EXTERNAL AUTH command b1 - Combined DDA / GEN AC NOT supported BYTE 2: b8 - EMV Contactless NOT supported	
84	Dedicated File (DF) Name	A0 00 00 00 04 30 60	
87	Application Priority Indicator	01	
8C	Card Risk Management Data Object List 1 (CDOL1)	9F 02 06 9F 03 06 9F 1A 02 95 05 5F 2A 02 9A 03 9C 01 9F 37 04 9F 35 01 9F 45 02 9F 4C 08 9F 34 03 9F 21 03 9F 7C 14	
8D	Card Risk Management Data Object List 2 (CDOL2)	91 0A 8A 02 95 05 9F 37 04 9F 4C 08	
8E	Cardholder Verification Method (CVM) List	00 00 00 00 00 00 00 00 41 03 42 03 1E 03 1F 03	
8F	Certification Authority Public Key Index	FA	

Tag	Element name	Data	v2.x
90	Issuer Public Key Certificate	8B ED 68 CB 5E 81 B7 6E F8 A9 F6 FF 38 16 8D 72 8F 11 A1 60 F7 8A 48 56 2F 54 4D 0B A4 28 26 C3 59 89 B4 33 3F AC 96 FF 7E FB 34 F3 4F D3 F8 15 A2 BC 0B 2B 8B AF D8 4F D9 9B 26 C9 6B 7B 35 E2 B0 80 F1 66 4A 48 1B 98 0F B6 C4 14 05 79 6A 0B 9D 5C 9C DE 2E F3 66 8E BD 05 57 D7 28 DB 3A 0A BC 4F 87 80 3C F2 81 80 79 5C E3 3A 37 7E 39 7A A8 A7 12 51 D8 8E 2B 09 2E 28 7B B7 80 86 5C 6A B9 FA 89 1F 85 B2 68 D2 15 A4 3C 2A 77 C3 C1 D9	
92	Issuer Public Key Remainder	D3 52 41 07	
94	Application File Locator (AFL)	08 02 04 01 18 01 01 00 20 01 01 00	
94	Application File Locator (AFL)	08 02 04 01 18 01 01 00 20 01 01 00	
9F 07	Application Usage Control	FF 00 BYTE 1: b8 - Domestic cash trans. valid b7 - Int'l cash transactions valid b6 - Domestic goods valid b5 - International goods valid b4 - Domestic services valid b3 - International services valid b2 - ATMs valid b1 - non-ATM terminals valid BYTE 2: b8 - Domestic cashback NOT allowed b7 - International cashback NOT allowed	
9F 08	Application Version Number	00 02	
9F 0D	Issuer Action Code - Default	B0 50 9C 80 00	
9F 0E	Issuer Action Code - Denial	00 00 00 00 00	
9F 0F	Issuer Action Code - Online	B0 70 9C 98 00	
9F 10	Issuer Application Data [M/Chip Advance]	xx 10 xx xx xx xx xx xx xx xx xx xx xx xx xx xx xx xx *	
9F 11	Issuer Code Table Index	01	
9F 12	Application Preferred Name	4D 61 65 73 74 72 6F - 'Maestro'	
9F 14	Counter 1 Lower Limit [Mastercard]	00	
9F 17	Personal Identification Number (PIN) Try Counter	03	
9F 1F	Track 1 Discretionary Data	30 38 33 35 35 30 36 30 36 30 30 30 30 30 30 30 30 30 30 30 30 30 30 30	
9F 23	Counter 1 Upper Limit [Mastercard]	00	
9F 26	Application Cryptogram (AC)	xx xx xx xx xx xx xx xx *	
9F 27	Cryptogram Information Data (CID)	80	
9F 32	Issuer Public Key Exponent	03	
9F 36	Application Transaction Counter (ATC)	00 06	
9F 42	Application Currency Code	08 26 - GBP	
9F 44	Application Currency Exponent	02	

Tag	Element name	Data	v2.x
9F 46	ICC Public Key Certificate	4C 35 33 34 56 B2 C4 4B 8E 13 94 D0 09 FF 8E CA 92 FD 3A 9E 2B 51 0D BE 3F 06 22 77 5E EF E8 42 C4 BA D4 9B 19 EC C0 BA 82 BE D8 17 34 24 A9 9E A3 85 EC C3 00 DF 1A 77 85 61 1F 84 26 86 26 BA D1 EC 52 CD 6D AA 86 26 FA A2 57 42 90 1D D1 FD 9E 11 BD 3A 03 28 40 C0 3B 70 6A 69 1F 15 68 CF 66 1F 4E 60 71 E7 35 E8 01 BA 97 7D 18 2B D3 5C	
9F 47	ICC Public Key Exponent	03	
9F 48	ICC Public Key Remainder	3A CB 32 38 96 35 9B 12 02 E4 D1 5A 5A 59 3A A6 81 F0 E9 51 19 88 87 6A 25 C6 8E 54 BC CF 23 32 93 B8 63 F6 33 F9 03 B5 F9 E5	
9F 49	Dynamic Data Authentication Data Object List (DDOL)	9F 37 04	
9F 4A	Static Data Authentication Tag List	82	
9F 4D	Transaction Log Entry	0B 0A	
9F 4F	Transaction Log Format	9F 27 01 9F 02 06 5F 2A 02 9A 03 9F 36 02 9F 52 06 DF 3E 01 9F 21 03 9F 7C 14	
9F 5D	Application Capabilities Information [M/Chip Advance]	01 00 00	
9F 6E	Third Party Data [Mastercard]	08 26 00 00 30 30 00	
9F 70	Protected Data Envelope 1 [M/Chip Advance]	20 20	
9F 71	Protected Data Envelope 2 [M/Chip Advance]	20 20	
9F 72	Protected Data Envelope 3 [M/Chip Advance]	20 20	
9F 73	Protected Data Envelope 4 [M/Chip Advance]	20 20	
9F 74	Protected Data Envelope 5 [M/Chip Advance]	20 20	
9F 75	Unprotected Data Envelope 1 [M/Chip Advance]	20 20	
9F 76	Unprotected Data Envelope 2 [M/Chip Advance]	20 20	
9F 77	Unprotected Data Envelope 3 [M/Chip Advance]	20 20	

Tag	Element name	Data	v2.x
9F 78	Unprotected Data Envelope 4 [M/Chip Advance]	20 20	
9F 79	Unprotected Data Envelope 5 [M/Chip Advance]	20 20	
9F 7E	Application Life Cycle Data [Mastercard]	03 10 0C 12 00 09 00 00 FF 00 04 00 00 02 60 00 00 38 4A 02 11 50 35 43 44 30 37 32 20	
C3	Card Issuer Action Code (Contact) - Decline [M/Chip Advance]	00 00 00	
C4	Card Issuer Action Code (Contact) - Default [M/Chip Advance]	46 58 00	
C5	Card Issuer Action Code (Contact) - Online [M/Chip Advance]	06 F8 00	
C6	PIN Try Limit [M/Chip Advance]	03	
C7	CDOL1 Related Data Length [Mastercard]	42	
C8	CRM Country Code [Mastercard]	08 26 - GBR	
C9	Accumulator 1 Currency Code [Mastercard]	08 26 - GBP	
CA	Accumulator 1 Lower Limit [Mastercard]	00 00 00 00 00 00	
CB	Accumulator 1 Upper Limit [Mastercard]	00 00 00 00 00 00	
CD	Card Issuer Action Code (Contactless) - Default [M/Chip Advance]	00 58 00	
CE	Card Issuer Action Code (Contactless) - Online [M/Chip Advance]	00 F8 00	
CF	Card Issuer Action Code (Contactless) - Decline [M/Chip Advance]	00 00 00	
D1	Accumulator 1 Currency Conversion Table [Mastercard]	08 26 00 01 00 08 26 00 01 00 08 26 00 01 00 08 26 00 01 00 08 26 00 01 00	
D3	Additional Check Table [Mastercard]	00 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF	
D5	Application Control [M/Chip Advance]	8C 00 80 00 86 02	
D6	Default ARPC Response Code [M/Chip Advance]	00 12	
D7	Application Control [M/Chip Advance]	40 01 40 00 86 02	
D9	Application File Locator (Contactless)	08 01 01 00 10 01 01 01 18 01 01 00 20 01 02 00	
DE	Log Data Table [M/Chip Advance]	00 00 00 00 00 00 00 00 00	
DF 02	Security Limits Status (Contact) [M/Chip Advance]	00	
DF 11	Accumulator 1 Control (Contact) [M/Chip Advance]	C1	
DF 12	Accumulator 1 Control (Contactless) [M/Chip Advance]	C1	
DF 14	Accumulator 2 Control (Contact) [M/Chip Advance]	00	
DF 15	Accumulator 2 Control (Contactless) [M/Chip Advance]	00	
DF 16	Accumulator 2 Currency Code [Mastercard]	09 99	
DF 17	Accumulator 2 Currency Conversion Table [Mastercard]	09 99 00 01 00 09 99 00 01 00 09 99 00 01 00 09 99 00 01 00 09 99 00 01 00	
DF 18	Accumulator 2 Lower Limit [Mastercard]	00 00 00 00 00 00	
DF 19	Accumulator 2 Upper Limit [Mastercard]	00 00 00 00 00 00	

Tag	Element name	Data	v2.x
DF 1A	Counter 1 Control (Contact) [M/Chip Advance]	c1	
DF 1B	Counter 1 Control (Contactless) [M/Chip Advance]	c1	
DF 1D	Counter 2 Control (Contact) [M/Chip Advance]	00	
DF 1E	Counter 2 Control (Contactless) [M/Chip Advance]	00	
DF 1F	Counter 2 Lower Limit [Mastercard]	00	
DF 21	Counter 2 Upper Limit [Mastercard]	00	
DF 22	MTA CVM (Contact) [M/Chip Advance]	00 00 00 00 00 00	
DF 23	MTA CVM (Contactless) [M/Chip Advance]	00 00 00 00 00 00	
DF 24	MTA Currency Code [M/Chip Advance]	09 99	
DF 25	MTA NoCVM (Contact) [M/Chip Advance]	00 00 00 00 00 00	
DF 26	MTA NoCVM (Contactless) [M/Chip Advance]	00 00 00 00 00 00	
DF 27	Number Of Days Offline Limit [M/Chip Advance]	00 00	
DF 28	Accumulator 1 CVR Dependency Data (Contact) [M/Chip Advance]	00 00 00	
DF 29	Accumulator 1 CVR Dependency Data (Contactless) [M/Chip Advance]	00 00 00	
DF 2A	Accumulator 2 CVR Dependency Data (Contact) [M/Chip Advance]	00 00 00	
DF 2B	Accumulator 2 CVR Dependency Data (Contactless) [M/Chip Advance]	00 00 00	
DF 2C	Counter 1 CVR Dependency Data (Contact) [M/Chip Advance]	00 00 00	
DF 2D	Counter 1 CVR Dependency Data (Contactless) [M/Chip Advance]	00 00 00	
DF 2E	Counter 2 CVR Dependency Data (Contact) [M/Chip Advance]	00 00 00	
DF 2F	Counter 2 CVR Dependency Data (Contactless) [M/Chip Advance]	00 00 00	
DF 30	Interface Enabling Switch [M/Chip Advance]	03	
DF 35	Security Limits Status (Contactless) [M/Chip Advance]	00	
DF 37	Security Limits Status Common [M/Chip Advance]	00	
DF 3C	CVR Issuer Discretionary Data (Contact) [M/Chip Advance]	00	
DF 3D	CVR Issuer Discretionary Data (Contactless) [M/Chip Advance]	00	
DF 3F	Read Record Filter (Contact) [M/Chip Advance]	00 00 00 00	
DF 40	Read Record Filter (Contactless) [M/Chip Advance]	08 03 03 00	
DF 41	DS Management Control [M/Chip Advance]	20	

* Tag value changes with card usage

1.7.3 Cardholder Verification Method List – AID (A0000000043060) CL, Online

Cardholder Verification Method List ('0203 1E03 1F03')			
CVM	Verification Method	Conditions	If unsuccessful
1	Online PIN	Terminal supports CVM type	Fail
2	Signature (paper)	Terminal supports CVM type	Fail
3	No CVM required	Terminal supports CVM type	Fail

1.7.4 Application Tag data (Contactless, Online)

Tag	Element name	Data	v2.x
50	Application Label	4D 41 45 53 54 52 4F - 'MAESTRO'	
56	Track 1 Equivalent Data [Mastercard]	42 36 37 36 37 37 34 30 30 30 30 30 30 30 30 30 30 33 5E 20 2F 5E 32 35 31 32 32 32 30	
57	Track 2 Equivalent Data	67 67 74 00 00 00 00 00 3D 25 12 22 00 83 55 06 06 00 0F	
5A	Application Primary Account Number (PAN)	67 67 74 00 00 00 00 00 3F	
5F 24	Application Expiration Date	25 12 31	
5F 25	Application Effective Date	xx xx xx	
5F 28	Issuer Country Code	08 26 - Great Britain	
5F 2D	Language Preference	65 6E - 'en' (English)	
5F 34	Application PAN Sequence Number	01	
82	Application Interchange Profile	18 80 BYTE 1: b7 - Offline SDA NOT supported b6 - Offline DDA NOT supported b5 - Cardholder verification supported b4 - Terminal risk mgmt to be performed b3 - Issuer authentication NOT supported via EXTERNAL AUTH command b1 - Combined DDA / GEN AC NOT supported BYTE 2: b8 - EMV Contactless supported	
84	Dedicated File (DF) Name	A0 00 00 00 04 30 60	
87	Application Priority Indicator	01	
8C	Card Risk Management Data Object List 1 (CDOL1)	9F 02 06 9F 03 06 9F 1A 02 95 05 5F 2A 02 9A 03 9C 01 9F 37 04 9F 35 01 9F 45 02 9F 4C 08 9F 34 03 9F 21 03 9F 7C 14	
8D	Card Risk Management Data Object List 2 (CDOL2)	91 0A 8A 02 95 05 9F 37 04 9F 4C 08	
8E	Cardholder Verification Method (CVM) List	00 00 00 00 00 00 00 00 02 03 1E 03 1F 03	
8F	Certification Authority Public Key Index	FA	

Tag	Element name	Data	v2.x
90	Issuer Public Key Certificate	8B ED 68 CB 5E 81 B7 6E F8 A9 F6 FF 38 16 8D 72 8F 11 A1 60 F7 8A 48 56 2F 54 4D 0B A4 28 26 C3 59 89 B4 33 3F AC 96 FF 7E FB 34 F3 4F D3 F8 15 A2 BC 0B 2B 8B AF D8 4F D9 9B 26 C9 6B 7B 35 E2 B0 80 F1 66 4A 48 1B 98 0F B6 C4 14 05 79 6A 0B 9D 5C 9C DE 2E F3 66 8E BD 05 57 D7 28 DB 3A 0A BC 4F 87 80 3C F2 81 80 79 5C E3 3A 37 7E 39 7A A8 A7 12 51 D8 8E 2B 09 2E 28 7B B7 80 86 5C 6A B9 FA 89 1F 85 B2 68 D2 15 A4 3C 2A 77 C3 C1 D9	
92	Issuer Public Key Remainder	D3 52 41 07	
94	Application File Locator (AFL)	08 01 01 00 10 01 01 01 18 01 01 00 20 01 02 00	
9F 07	Application Usage Control	FF 00 BYTE 1: b8 - Domestic cash trans. valid b7 - Int'l cash transactions valid b6 - Domestic goods valid b5 - International goods valid b4 - Domestic services valid b3 - International services valid b2 - ATMs valid b1 - non-ATM terminals valid BYTE 2: b8 - Domestic cashback NOT allowed b7 - International cashback NOT allowed	
9F 08	Application Version Number	00 02	
9F 0D	Issuer Action Code - Default	B4 70 80 80 00	
9F 0E	Issuer Action Code - Denial	00 00 00 00 00	
9F 0F	Issuer Action Code - Online	B4 70 84 80 00	
9F 10	Issuer Application Data [M/Chip Advance]	xx 11 xx xx xx xx xx xx xx xx xx xx xx xx xx xx xx xx *	
9F 11	Issuer Code Table Index	01	
9F 12	Application Preferred Name	4D 61 65 73 74 72 6F - 'Maestro'	
9F 14	Counter 1 Lower Limit [Mastercard]	00	
9F 17	Personal Identification Number (PIN) Try Counter	03	
9F 23	Counter 1 Upper Limit [Mastercard]	00	
9F 26	Application Cryptogram (AC)	xx xx xx xx xx xx xx xx *	
9F 27	Cryptogram Information Data (CID)	80	
9F 32	Issuer Public Key Exponent	03	
9F 36	Application Transaction Counter (ATC)	00 04	
9F 36	Application Transaction Counter (ATC)	00 05	
9F 42	Application Currency Code	08 26 - GBP	
9F 44	Application Currency Exponent	02	

Tag	Element name	Data	v2.x
9F 46	ICC Public Key Certificate	47 A3 BA 92 B0 9C 67 19 07 A1 B0 5E 24 F9 B9 24 1F 70 DC 97 B9 2F 38 E9 51 BB 1B F5 15 D4 55 F8 49 34 03 F1 04 2C F9 BA 18 44 C7 7B 1D 16 24 D5 10 7E FA F0 B8 F3 B2 45 8C FA 17 71 1B 11 09 C8 B3 A1 D1 85 DF 93 10 4A CA DD 8C E4 B7 DC 4A 45 AC 2D EA B0 E8 E8 2E 95 5E 08 37 09 5B 24 5F 05 81 DE 16 29 F5 4F CB 3A 90 3A 86 53 ED 98 3C 61	
9F 47	ICC Public Key Exponent	03	
9F 48	ICC Public Key Remainder	3A CB 32 38 96 35 9B 12 02 E4 D1 5A 5A 59 3A A6 81 F0 E9 51 19 88 87 6A 25 C6 8E 54 BC CF 23 32 93 B8 63 F6 33 F9 03 B5 F9 E5	
9F 4A	Static Data Authentication Tag List	82	
9F 4D	Transaction Log Entry	0B 0A	
9F 4F	Transaction Log Format	9F 27 01 9F 02 06 5F 2A 02 9A 03 9F 36 02 9F 52 06 DF 3E 01 9F 21 03 9F 7C 14	
9F 5D	Application Capabilities Information [M/Chip Advance]	01 00 00	
9F 60	CVC3track1 [Mastercard]	EE 9E	
9F 61	CVC3track2 [Mastercard]	C1 DA	
9F 62	Track 1 Bitmap for CVC3 (PCVC3 Track 1) [Mastercard]	00 00 00 38 00 00	
9F 63	Track 1 Bitmap for UN and ATC (PUNATC Track 1) [Mastercard]	00 00 00 00 E0 E0	
9F 64	Track 1 Number of ATC Digits (NATC Track 1) [Mastercard]	03	
9F 65	Track 2 Bitmap for CVC3 (PCVC3 Track 2) [Mastercard]	00 0E	
9F 66	Track 2 Bitmap for UN and ATC (PUNATC Track 2) [Mastercard]	0E 70	
9F 67	Track 2 Number of ATC Digits (NATC Track 2) [Mastercard]	03	
9F 6B	Track 2 Equivalent Data [Mastercard]	67 67 74 00 00 00 00 00 3D 25 12 22 00 00 55 00 00 00 0F	
9F 6C	Application Version [Mastercard]	00 01	
9F 6E	Third Party Data [Mastercard]	08 26 00 00 30 30 00	
9F 7E	Application Life Cycle Data [Mastercard]	03 10 0C 12 00 09 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF 00 04 00 00 02 60 00 00 38 4A 02 11 50 35 43 44 30 37 32 20	
C3	Card Issuer Action Code (Contact) - Decline [M/Chip Advance]	00 00 00	
C4	Card Issuer Action Code (Contact) - Default [M/Chip Advance]	46 58 00	
C5	Card Issuer Action Code (Contact) - Online [M/Chip Advance]	06 F8 00	
C6	PIN Try Limit [M/Chip Advance]	03	
C7	CDOL1 Related Data Length [Mastercard]	42	
C8	CRM Country Code [Mastercard]	08 26 - GBR	

Tag	Element name	Data	v2.x
C9	Accumulator 1 Currency Code [Mastercard]	08 26 - GBP	
CA	Accumulator 1 Lower Limit [Mastercard]	00 00 00 00 00 00	
CB	Accumulator 1 Upper Limit [Mastercard]	00 00 00 00 00 00	
CD	Card Issuer Action Code (Contactless) - Default [M/Chip Advance]	00 58 00	
CE	Card Issuer Action Code (Contactless) - Online [M/Chip Advance]	00 F8 00	
CF	Card Issuer Action Code (Contactless) - Decline [M/Chip Advance]	00 00 00	
D1	Accumulator 1 Currency Conversion Table [Mastercard]	08 26 00 01 00 08 26 00 01 00 08 26 00 01 00 08 26 00 01 00 08 26 00 01 00	
D3	Additional Check Table [Mastercard]	00 00 00 FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF	
D5	Application Control [M/Chip Advance]	8C 00 80 00 86 02	
D6	Default ARPC Response Code [M/Chip Advance]	00 12	
D7	Application Control [M/Chip Advance]	40 01 40 00 86 02	
DF 02	Security Limits Status (Contact) [M/Chip Advance]	00	

* Tag value changes with card usage

Chapter 2 - ASCII Character Conversion Chart

Dec	Bin	Hex	Char	Dec	Bin	Hex	Char	Dec	Bin	Hex	Char
00	00000000	00	NUL	44	00101100	2C	,	88	01011000	58	X
01	00000001	01	SOH	45	00101101	2D	-	89	01011001	59	Y
02	00000010	02	STX	46	00101110	2E	.	90	01011010	5A	Z
03	00000011	03	ETX	47	00101111	2F	/	91	01011011	5B	[
04	00000100	04	EOT	48	00110000	30	0	92	01011100	5C	\
05	00000101	05	ENQ	49	00110001	31	1	93	01011101	5D]
06	00000110	06	ACK	50	00110010	32	2	94	01011110	5E	^
07	00000111	07	BEL	51	00110011	33	3	95	01011111	5F	_
08	00001000	08	BS	52	00110100	34	4	96	01100000	60	`
09	00001001	09	HT	53	00110101	35	5	97	01100001	61	a
10	00001010	0A	LF	54	00110110	36	6	98	01100010	62	b
11	00001011	0B	VT	55	00110111	37	7	99	01100011	63	c
12	00001100	0C	FF	56	00111000	38	8	100	01100100	64	d
13	00001101	0D	CR	57	00111001	39	9	101	01100101	65	e
14	00001110	0E	SO	58	00111010	3A	:	102	01100110	66	f
15	00001111	0F	SI	59	00111011	3B	;	103	01100111	67	g
16	00010000	10	DLE	60	00111100	3C	<	104	01101000	68	h
17	00010001	11	DC1	61	00111101	3D	=	105	01101001	69	i
18	00010010	12	DC2	62	00111110	3E	>	106	01101010	6A	j
19	00010011	13	DC3	63	00111111	3F	?	107	01101011	6B	k
20	00010100	14	DC4	64	01000000	40	@	108	01101100	6C	l
21	00010101	15	NAK	65	01000001	41	A	109	01101101	6D	m
22	00010110	16	SYM	66	01000010	42	B	110	01101110	6E	n
23	00010111	17	ETB	67	01000011	43	C	111	01101111	6F	o
24	00011000	18	CAN	68	01000100	44	D	112	01110000	70	p
25	00011001	19	EM	69	01000101	45	E	113	01110001	71	q
26	00011010	1A	SUB	70	01000110	46	F	114	01110010	72	r
27	00011011	1B	ESC	71	01000111	47	G	115	01110011	73	s
28	00011100	1C	FS	72	01001000	48	H	116	01110100	74	t
29	00011101	1D	GS	73	01001001	49	I	117	01110101	75	u
30	00011110	1E	RS	74	01001010	4A	J	118	01110110	76	v
31	00011111	1F	US	75	01001011	4B	K	119	01110111	77	w
32	00100000	20	SP	76	01001100	4C	L	120	01111000	78	x
33	00100001	21	!	77	01001101	4D	M	121	01111001	79	y
34	00100010	22	"	78	01001110	4E	N	122	01111010	7A	z
35	00100011	23	#	79	01001111	4F	O	123	01111011	7B	{
36	00100100	24	\$	80	01010000	50	P	124	01111100	7C	
37	00100101	25	%	81	01010001	51	Q	125	01111101	7D	}
38	00100110	26	&	82	01010010	52	R	126	01111110	7E	~
39	00100111	27	'	83	01010011	53	S	127	01111111	7F	DEL
40	00101000	28	(84	01010100	54	T				
41	00101001	29)	85	01010101	55	U				
42	00101010	2A	*	86	01010110	56	V				
43	00101011	2B	+	87	01010111	57	W				