

Security Rules and Procedures

Merchant Edition

7 February 2014

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Chapter 1 Customer Obligations

This chapter describes general Customer compliance and Program obligations relating to MasterCard Card issuing and Merchant acquiring Program Activities.

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| 1.3 The Security Contact | 1-1 |

1.1 Compliance with the Standards

This manual contains Standards. Each Customer must comply fully with these Standards.

All of the Standards in this manual are assigned to noncompliance category A under the compliance framework set forth in Chapter 2 of the *MasterCard Rules* manual ("the compliance framework"), unless otherwise specified in the table below. The noncompliance assessment schedule provided in the compliance framework pertains to any Standard in the *Security Rules and Procedures* manual that does not have an established compliance Program. The Corporation may deviate from the schedule at any time.

| Section Number | Section Title | Category |
|----------------|---|----------|
| 1.3 | The Security Contact | С |
| 2.3 | Contracting with Card Registration Companies | С |
| 3.11.3 | Standard Wording | В |
| 7.1.3 | Retention of Investigative Records | С |

1.2 Conflict with Law

A Customer is excused from compliance with a Standard in any country or region of a country only to the extent that compliance would cause the Customer to violate local applicable law or regulation, and further provided that the Customer promptly notifies the Corporation, in writing, of the basis for and nature of an inability to comply. The Corporation has the authority to approve local alternatives to these Standards.

1.3 The Security Contact

Each Customer must have a Security Contact listed for each of its Member IDs/ICA numbers in the Member Information tool on MasterCard Connect™.

Chapter 2 Omitted

This chapter has been omitted.

Chapter 3 Card and TID Design Standards

This chapter may be of particular interest to Issuers and vendors certified by MasterCard responsible for the design, creation, and control of Cards. It provides specifications for all MasterCard, Maestro, and Cirrus Card Programs worldwide.

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3.9 Card Validation Code (CVC)

The CVC is a security feature with components identified elsewhere in this manual. Use of CVCs makes it more difficult for counterfeiters to alter Cards and reuse them for fraudulent purposes.

3.9.4 Acquirer Requirements for CVC 2

When the Merchant provides the indent-printed CVC 2 value, the Acquirer must include the CVC 2 value in DE 48, subelement 92 of the Authorization Request/0100 message. The Acquirer is also responsible for ensuring that the Merchant receives the CVC 2 response code provided by the Issuer in DE 48, subelement 87 of the Authorization Request Response/0110 message.

All non-face-to-face gambling Transactions conducted with a MasterCard Card must include the CVC 2 value in DE 48, subelement 92 of the Authorization Request/0100 message.

3.10 Service Codes

The service code, a three-digit number that complies with ISO 7813 (Identification Cards—Financial Transaction Cards), is encoded on Track 1 and Track 2 of the magnetic stripe of a Card and indicates to a magnetic stripe-reading terminal the Transaction acceptance parameters of the Card. Each digit of the service code represents a distinct element of the Issuer's Transaction acceptance policy. However, not all combinations of valid digits form a valid service code, nor are all service code combinations valid for all Card Programs. Issuers may encode only one service code on Cards, and the same value must be encoded on both Track 1 and Track 2 in their respective, designated positions.

Service codes provide Issuers with flexibility in defining Card acceptance parameters, and provide Acquirers with the ability to interpret Issuers' Card acceptance preferences for all POI conditions.

Service codes apply to magnetic stripe-read Transactions only. In the case of Chip Cards used in Hybrid POS Terminals, the Hybrid POS Terminal uses the data encoded in the chip to complete the Transaction.

NOTE

A value of 2 or 6 in position 1 of the service code indicates that a chip is present on a Card which contains the MasterCard application that is present on the magnetic stripe.

3.10.2 Acquirer Information

Acquirers must ensure that their hybrid POI terminals do not reject or otherwise decline to complete a Transaction solely because of the service code encoded on the magnetic stripe.

Acquirers are not required to act on the service codes at this time unless:

- A value of 2 or 6 is present in position 1 of the service code for a MasterCard Payment Application. The hybrid POI terminal must first attempt to process the Transaction as a chip Transaction; or
- The POI terminal is located in the Europe Region and has magnetic stripe-reading capability, and a value of 2 is present in position 2 of the service code for a MasterCard Payment Application. The Acquirer must ensure that authorization is obtained before the Merchant completes a magnetic stripe-read Transaction.

3.10.3 Valid Service Codes

Table 3.3 defines service code values for MasterCard, MasterCard Electronic, Maestro, and Cirrus Payment Applications and each position of the three-digit service code.

NOTE

Service codes are three positions in length. To identify valid service code values, combine the valid numbers for each of the three positions in this table. The value 000 is not a valid service code and must not be encoded on the magnetic stripe of MasterCard, MasterCard Electronic, Maestro, or Cirrus cards.

Table 3.3—Service Code Values

| Definition | Position 1 | Position 2 | Position 3 |
|---|------------|------------|------------|
| International Card | 1 | | |
| International Card—Integrated Circuit Card | 2 | | |
| National Use Only | 5 | | |
| National Use Only—Integrated Circuit Card | 6 | | |
| Private Label or Proprietary Card | 7 | | |
| Normal Authorization | | 0 | |
| Positive Online Authorization Required | | 2 | |
| PIN Required | | | 0 |
| Normal Cardholder Verification, No Restrictions | | | 1 |
| Normal Cardholder Verification—Goods and services only at Point of Interaction (no cash back) | | | 2 |
| ATM Only, PIN Required | | | 3 |
| PIN Required—Goods and services only at Point of Interaction (no cash back) | | | 5 |

| Definition | Position 1 | Position 2 | Position 3 |
|--|------------|------------|------------|
| Prompt for PIN if PIN Pad Present | | | 6 |
| Prompt for PIN if PIN Pad Present—Goods and services only at Point of Service (no cash back) | | | 7 |

NOTE

In Authorization Release 06.2, support of Purchase of Goods and Services with Cash Back Transactions was mandated for Debit MasterCard® cards. Position 3, values 5 and 7 are not valid values applicable for Debit MasterCard Transactions.

3.10.4 Additional Service Code Information

The following information explains the service code values in Table 3.3.

- Normal authorization is an authorized Transaction according to the established rules governing Transactions at the POI.
- Positive Online Authorization Required service codes (value of 2 in position 2) indicate that an electronic authorization must be requested for all Transactions. This service code value must be used on MasterCard Electronic™ cards, but is optional for MasterCard Unembossed cards.
- Normal Cardholder verification indicates that the Cardholder verification method (CVM) must be performed in accordance with established rules governing Cardholder verification at the POI.
- ICC-related service codes (value of 2 or 6 in position 1) are permitted only on Chip Cards containing a MasterCard or Cirrus Payment Application type-approved by MasterCard or its agent.
- ICC-related service codes (value of 2 or 6 in position 1) may not be used for stand-alone stored value (purse) applications that reside on MasterCard or Cirrus cards. In these instances, a value of 1 must be placed in the first position.
- National Use Only service codes (value of 5 or 6 in position 1) are permitted only on National Use Only Cards approved by MasterCard. This includes PIN-related service codes on **National Use Only** Cards (for example, 506) governed by local PIN processing rules.
- Private label or proprietary service codes (value of 7 in position 1) on Cards that contain a valid MasterCard BIN are permitted only on private label or proprietary Cards approved by MasterCard.

Issuers may not use PIN-related service codes for Card Programs unless MasterCard has approved the indicated use of a PIN.

3.11 Transaction Information Documents (TIDs)

Transaction Information Documents (TIDs) used in interchange Transactions must comply with the Standards set forth in this section.

Below is a list of the types of TIDs discussed in this section:

- Retail sale
- Credit
- Cash disbursement
- Information

NOTE

The Acquirer must retain a copy of the TID for at least 13 months.

If the Merchant uses a manual imprinter, the TID produced is called a formset or slip. For MasterCard formset specifications, refer to Appendix B.

If a Transaction begins at an electronic terminal, the Merchant may substitute a terminal receipt for a formset. Terminal receipts have no prescribed physical specifications but must be numbered sequentially for reference purposes.

A TID must not reflect the following information:

- The PIN, any part of the PIN, or any fill characters representing the PIN
- The CVC 2, which is present in a white panel adjacent to the signature panel of the Card

MasterCard prohibits the recording of PIN data and CVC data in any manner for any purpose.

3.11.1 Formset Contents

Each copy of a retail sale, credit, or cash disbursement formset shall satisfy minimum statutory and regulatory requirements in the jurisdiction in which the slip originates and any applicable regulations, issued by the U.S. Board of Governors of the Federal Reserve System or other regulatory authorities, and shall contain the following:

- In the case of retail sale and credit slips, a space for the description of goods, services, or other things of value sold by the Merchant to the customer and the cost thereof, in sufficient detail to identify the Transaction.
- Adequate spaces for:
 - The customer's signature
 - Card imprint and the Merchant or bank identification plate imprint
 - Date of the Transaction
 - Authorization number (except on credit slips)
 - Sales clerk's or teller's initials or department number
 - Currency conversion field
 - Merchant's signature on credit slips
 - Description of the positive identification supplied by the Cardholder on cash disbursements and retail sale slips for certain unique Transactions.
- A legend clearly identifying the slip as a retail sale, credit, or cash disbursement and identifying the receiving party of each copy.
- On the customer copy of the formset, the words (in English, local language, or both): "IMPORTANT—retain this copy for your records," or words to similar effect.
- Such other contents as are not inconsistent with these rules.

MasterCard recommends that each retail sale, credit, and cash disbursement slip bear a means of identifying the Customer that distributed the slip to the Merchant.

3.11.2 POS Terminal Receipt Contents

Each copy of a POS Terminal receipt shall satisfy all requirements of applicable law, and shall contain the following information:

- Doing Business As (DBA) Merchant name, city and state, country, or the point of banking location
- Transaction date
- MasterCard Account number (refer to section 3.11.4 for details on displaying the MasterCard Account number)
- Transaction amount in the original Transaction currency
- Adequate space for the customer's signature, unless the Transaction is completed with a PIN as the CVM or no CVM is used (signature space required on Merchant copy only)
- Authorization approval code (except on credit receipts). Optionally, the Acquirer also may print the Transaction certificate, the application cryptogram, or both for Chip Card Transactions.
- Merchant's signature on credit receipts only

Each receipt shall clearly identify the Transaction as a retail sale, credit, or cash disbursement.

3.11.3 Standard Wording

MasterCard has developed the following standard wording for use on the interchange copy of the formset. Use the standard wording, which may appear in English, the local language, or both, unless MasterCard has previously granted a variance permitting use of other wording.

| _ | | | | • | |
|-----|-------|-------|------------|-------|--|
| D, | etail | cal | O C | inc. | |
| 174 | = tan | _ sai | C 3 | IIDS. | |

"The Issuer of the Card identified on this item is authorized to pay the amount shown as 'total' upon proper presentation. I promise to pay such total (together with any other charges due thereon) subject to and in accordance with the agreement governing the use of such Card."

Credit slips:

"I request that the above Cardholder account be credited with the amount shown as 'total' because of the return of, or adjustments on, the goods, services, or other items of value described, and authorize the bank to which this credit slip is delivered to charge my account in accordance with my agreement with such bank."

Cash disbursement slips:

"I hereby request the Issuer of the Card identified above to pay to bearer the amount shown as 'total' hereon. I hereby confirm that I will pay said amount, with any charges due thereon, to said Issuer in accordance with terms of the agreement governing the use of said Card."

Information slips: "Information on this slip relates to the type of

Transaction indicated above, and the amount shown hereon as the total should agree with the amount on the receipt provided at the time of the Transaction."

3.11.4 Primary Account Number Truncation and Expiration Date Omission

For information on this topic, refer to "Primary Account Number (PAN) Truncation and Expiration Date Omission" (under "Providing a Transaction Receipt") in Chapter 3 of the *Transaction Processing Rules* manual.

Chapter 4 POI Terminal and PIN Security Standards

This chapter may be of particular interest to Issuers of Cards that support PIN as a Cardholder verification method (CVM) and Acquirers of Point-of-Interaction (POI) Terminals that accept PIN as a CVM. Refer to the applicable technical specifications and the Transaction Processing Rules manual for additional POI Terminal and Transaction processing requirements relating to the use of a PIN.

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4.1 Personal Identification Numbers (PINs)

An Issuer must give each of its Cardholders a personal identification number (PIN) in conjunction with MasterCard Card issuance, or offer the Cardholder the option of receiving a PIN. The Issuer must give the Cardholder a PIN in conjunction with Maestro Card and Cirrus Card issuance. The PIN allows Cardholders to access the MasterCard ATM Network® accepting the MasterCard®, Maestro®, and Cirrus® brands, and to conduct Transactions at Cardholder-activated terminal (CAT) 1 devices, Maestro Merchant locations, and Hybrid Point-of-Sale (POS) Terminals.

An Issuer should refer to the guidelines for PIN and key management set forth in the *Issuer PIN Security Guidelines*.

An Acquirer must comply with the latest edition of the following documents, available at www.pcisecuritystandards.org:

- Payment Card Industry PIN Security Requirements
- Payment Card Industry POS PIN Entry Device Security Requirements
- Payment Card Industry Encrypting PIN Pad Security Requirements

4.3 PIN Verification

An Issuer must be capable of verifying PINs based on a maximum of six characters. The Issuer may use the PIN verification algorithm of its choice.

If a Card is encoded with a PIN Verification Value (PVV), then the Issuer may use the MasterCard PIN verification service for authorization processing. If a proprietary algorithm is used for the PVV calculation or the PVV is not encoded on the Card, then PIN verification will not be performed on a Transaction authorized by means of the Stand-In Processing Service.

A Customer in a Region other than the Europe Region may refer to "PIN Processing for Non-Europe Region Customers" in the *Authorization Manual*, Chapter 9, "Authorization Services Details" for more information about the MasterCard PIN verification service, in which the MasterCard Worldwide Network performs PIN verification on behalf of Card Issuers. Europe Region Customers should refer to Chapter 12, "PIN Processing for Europe Region Customers," of the *Authorization Manual*.

Refer to "PIN Generation Verification" in *Single Message System Specifications*, Chapter 6, "Encryption" for more information about PIN verification that the MasterCard Worldwide Network performs directly for Debit MasterCard Card and Maestro and Cirrus Card Issuers, and the two PIN verification methods (IBM 3624 and ABA) that the PIN verification service supports. The ANSI format of PIN block construction is also described in that chapter.

4.5 PIN Encipherment

All Customers and their agents performing PIN Transaction processing must comply with the security requirements for PIN encipherment specified in the *Payment Card Industry PIN Security Requirements*.

All Issuers and their agents performing PIN processing should also refer to the MasterCard *Issuer PIN Security Guidelines* document regarding PIN encipherment.

4.6 PIN Key Management

Key management is the process of creating, distributing, maintaining, storing, and destroying cryptographic keys, including the associated policies and procedures used by processing entities.

All Acquirers and their agents performing PIN Transaction processing must comply with the security requirements for PIN and key management specified in the *Payment Card Industry PIN Security Requirements*.

In addition, all Acquirers and their agents must adhere to the following Standards for PIN encryption:

- 1. Perform all PIN encryption, translation, and decryption for the network using hardware encryption.
- 2. Do not perform PIN encryption, translation, or decryption under Triple Data Encryption Standard (DES) software routines.
- 3. Use the Triple DES algorithm to perform all encryption.

All Issuers and their agents performing PIN processing should refer to the MasterCard *Issuer PIN Security Guidelines* regarding all aspects of Issuer PIN and PIN key management, including PIN selection, transmission, storage, usage guidance, and PIN change.

4.6.1 PIN Transmission Between Customer Host Systems and the Interchange System

The Interchange System and Customers exchange PIN encryption keys (PEKs) in two manners: **statically** and **dynamically**. Directly connected Customers that are processing MasterCard Transactions that contain a PIN may use either static or dynamic key encryption to encipher the PIN.

MasterCard strongly recommends using dynamic PEKs. Static PEKs must be replaced as indicated in the references below.

For information about PIN key management and related services, including requirements for key change intervals and emergency keys, refer to the manuals listed in Table 4.1, which are available through the MasterCard ConnectTM Publications product.

Table 4.1—PIN Key Management References

| For Transaction authorization request messages routed through | Refer to |
|--|--|
| MasterCard Worldwide Network/ Dual Message System | Authorization Manual |
| MasterCard Worldwide Network/ Single Message System | Single Message System Specifications |
| MasterCard Key Management Center via the On-behalf Key Management (OBKM) Interface | On-behalf Key Management (OBKM) Procedures |
| | and On-behalf Key Management (OBKM) Interface Specifications |

4.6.2 On-behalf Key Management

MasterCard offers the On-behalf Key Management (OBKM) service to Europe Region Customers as a means to ensure the secure transfer of Customer cryptographic keys to the MasterCard Key Management Center. OBKM services offer Customers three key exchange options:

- One-Level Key Hierarchy—Customers deliver their cryptographic keys in three clear text components to three MasterCard Europe security officers. The security officers then load the key components into the Key Management Center.
- **Two-Level Key Hierarchy**—The Key Management Center generates and delivers transport keys to Customers in three separate clear text components. Customers use the transport keys to protect and send their cryptographic keys to Key Management Services in Waterloo, Belgium. Key Management Services then loads the Customer keys into the Key Management Center.
- Three-Level Key Hierarchy—The Key Management Center uses public key techniques to deliver transport keys to Customers in three separate clear text components. Customers use the transport keys to protect and send their cryptographic keys to Key Management Services in Waterloo, Belgium. Key Management Services then loads the Customer keys into the Key Management Center.

MasterCard recommends that Customers use the Two-Level or Three-Level Key Hierarchy, both of which use transport keys to establish a secure channel between the Customer and the Key Management Center.

MasterCard has developed a Cryptography Self Test Tool (CSTT) to assist Customers in meeting OBKM interface requirements. Customers must use the CSTT before exchanging keys with Key Management Services using the Two-Level and Three-Level Hierarchies.

Customers must register to participate in the OBKM service. For more information, contact key_management@mastercard.com or refer to the On-behalf Key Management (OBKM) Procedures and On-behalf Key Management (OBKM) Interface Specifications, available via the MasterCard Connect Publications product.

4.7 PIN at the POI for MasterCard Magnetic Stripe Transactions

MasterCard may authorize the use of a PIN for MasterCard magnetic stripe Transactions at selected Merchant types, POS Terminal types, or Merchant locations in specific countries. MasterCard requires the use of a PIN at CAT 1 devices. Acquirers and Merchants that support PIN-based MasterCard magnetic stripe Transactions must provide Cardholders with the option of a signature-based Transaction, unless the Transaction occurs at a CAT 1 device or at a CAT 3 device with offline PIN capability for Chip Transactions.

MasterCard requires Merchants to provide a POS Terminal that meets specific requirements for PIN processing wherever an approved implementation takes place. When applicable, each Transaction must be initiated with a Card in conjunction with the PIN entered by the Cardholder at the terminal. The Acquirer must be able to transmit the PIN in the Authorization Request/0100 message in compliance with all applicable PIN security Standards.

Acquirers and Merchants must not require a Cardholder to disclose his or her PIN, other than by private entry into a secure PIN entry device (PED) as described in section 4.9 of this manual.

Acquirers must control POI terminals equipped with PIN pads. If a terminal is capable of prompting for the PIN, the Acquirer must include the PIN and full magnetic stripe-read data in the Authorization Request/0100 message.

MasterCard will validate the PIN when processing for Issuers that provide the necessary keys to MasterCard pursuant to these Standards. All other POI Transactions containing PIN data will be declined in Stand-In processing.

4.8 POI Terminal Security Standards

The Acquirer must ensure that each POI Terminal:

- 1. Has a magnetic stripe reader capable of reading Track 2 data and transmitting such data to the Issuer for authorization;
- 2. Permits the Cardholder to enter PIN data in a private manner;
- 3. Prevents a new Transaction from being initiated before the prior Transaction is completed; and
- 4. Validates the authenticity of the Card or other Access Device.

For magnetic stripe Transactions, the following checks must be performed by the Acquirer (either in the POI Terminal or the Acquirer host system), before the authorization request is forwarded:

- 1. **Longitudinal Redundancy Check (LRC)**—The magnetic stripe must be read without LRC error.
- 2. **Track Layout**—The track layout must conform to the specifications in Appendix A.

With respect to the electronic functions performed by a POI Terminal, the following requirements apply:

- 1. A Transaction may not be declined due to bank identification number (BIN)/Issuer identification number (IIN) validation.
- 2. A Transaction may not be declined as a result of edits or validations performed on the primary account number (PAN) length, expiration date, service code, discretionary data, or check digit data of the Access Device.
- 3. Tests or edits on Track 1 must not be performed for the purpose of disqualifying a Card from eligibility for Interchange System processing.

4.9 Hybrid POI Terminal Security Standards

The Acquirer must ensure that a Hybrid POI Terminal complies with all of the following Standards:

- Each Hybrid POS Terminal that reads and processes EMV-compliant payment applications must read and process EMV-compliant MasterCard and Maestro Payment Applications.
- Each Hybrid ATM and Hybrid PIN-based In-Branch Terminal that reads and processes EMV-compliant payment applications must read and process EMV-compliant MasterCard, Maestro, and Cirrus Payment Applications.
- Each Hybrid POI Terminal must perform a Chip Transaction when a Chip Card or Access Device is presented in compliance with all applicable Standards, including those Standards set forth in the *M/Chip Requirements* manual.
- Each offline-capable Hybrid POS Terminal must support offline Static Data Authentication (SDA) and offline Dynamic Data Authentication (DDA) as Card authentication methods (CAMs). Each offline-capable Hybrid POS Terminal certified by MasterCard on or after 1 January 2011 also must support offline Combined Data Authentication (CDA) as a CAM.

- Except in the United States Region, each offline-capable Hybrid POS Terminal certified by MasterCard on or after 1 January 2011 must support offline PIN processing as a Cardholder verification method (CVM). In Taiwan, this requirement applies to Hybrid POS Terminals certified by MasterCard on or after 1 January 2013.
- In the United States Region, each Hybrid POS Terminal that supports PIN must support both online PIN and offline PIN processing.
- Each Hybrid POS Terminal that supports offline PIN processing must support both clear text and encrypted PIN options.

4.10 PIN Entry Device Standards

A PED on an ATM Terminal, PIN-based In-Branch Terminal, or POS Terminal must have a numeric keyboard to enable the entry of PINs, with an 'enter key' function to indicate the completion of entry of a variable length PIN.

In all Regions except the Canada and United States Regions, a PED must accept PINs having four to six numeric characters. In the Canada and U.S. Regions, a PED must support PINs of up to 12 alphanumeric characters. It is recommended that all PEDs support the input of PINs in letter-number combinations as follows:

| 1 | Q, Z | 6 | M, N, O |
|---|---------|---|---------|
| 2 | A, B, C | 7 | P, R, S |
| 3 | D, E, F | 8 | T, U, V |
| 4 | G, H, I | 9 | W, X, Y |
| 5 | J, K, L | | |

An Acquirer must ensure that all PEDs that are part of POS Terminals meet the following Payment Card Industry (PCI) requirements:

- 1. All PEDs must be compliant with the *Payment Card Industry PIN Security Requirements* manual.
- 2. All newly installed, replaced, or refurbished PEDs must be compliant with the PCI POS PED Security Requirements and Evaluation Program.
- 3. All PEDs must be in compliance with the PCI POS PED Security Requirements and Evaluation Program or appear on the MasterCard list of approved devices.

As a requirement for PED testing under the PCI POS PED Security Requirements and Evaluation Program, the PED vendor must complete the forms in the *Payment Card Industry POS PIN Entry Device Security Requirements* manual, along with the *Payment Card Industry POS PIN Entry Device Evaluation Vendor Questionnaire*. The vendor must submit all forms together with the proper paperwork, including the required PED samples, to the evaluation laboratory.

If a Customer or MasterCard questions a PED with respect to physical security attributes (those that deter a physical attack on the device) or logical security attributes (functional capabilities that preclude, among other things, the output of a clear text PIN or a cryptographic key), MasterCard has the right to effect an independent evaluation performed at the manufacturer's expense.

MasterCard will conduct periodic security reviews with selected Acquirers and Merchants. These reviews will ensure compliance with MasterCard security requirements and generally accepted best practices.

WARNING!

The physical security of the PED depends on its penetration characteristics. Virtually any physical barrier may be defeated with sufficient effort.

For secure transmission of the PIN from the PED to the Issuer host system, the PED must encrypt the PIN using the approved algorithm(s) for PIN encipherment listed in ISO 9564-2 and the appropriate PIN block format as provided in ISO 9564-1.

If the PIN pad and the secure component of the PED are not integrated into a single tamper-evident device, then for secure transmission of the PIN from the PIN pad to the secure component, the PIN pad must encrypt the PIN using the approved algorithm(s) for PIN encipherment listed in ISO 9564-2.

4.11 Wireless POS Terminals and Internet/Stand-alone IP-enabled POS Terminal Security Standards

MasterCard has established security requirements for the encryption of sensitive data by POS Terminals. These requirements apply to POS Terminals that use wide area wireless technologies, such as general packet radio service (GPRS) and code division multiple access (CDMA), to communicate to hosts and stand-alone IP-connected terminals that link via the Internet.

All wireless POS Terminals and Internet/IP-enabled POS Terminals must support the encryption of Transaction and Cardholder data between the POS Terminal and the server system with which they communicate, using encryption algorithms approved by MasterCard.

If the deployed Internet/IP-enabled POS Terminals are susceptible to attacks from public networks, Acquirers must ensure that they are approved by the MasterCard IP POS Terminal Security (PTS) Testing Program.

Internet/IP-enabled POS Terminals may be submitted for security evaluation at laboratories recognized by the MasterCard IP PTS Testing Program for subsequent approval.

All Acquirers deploying wireless POS Terminals or Internet/IP-enabled POS Terminals must refer to the following required security documents:

- POS Terminal Security Program—Program Manual
- POS Terminal Security Program—Security Requirements
- POS Terminal Security Program—Derived Test Requirements
- POS Terminal Security Program—Vendor Questionnaire
- Payment Card Industry Data Security Standard (produced by the PCI Security Standards Council)
- Any other related security documents that MasterCard may publish from time to time.

4.12 POS Terminals Using Electronic Signature Capture Technology (ESCT)

An Acquirer that deploys POS Terminals using Electronic Signature Capture Technology (ESCT) must ensure the following:

- Proper electronic data processing (EDP) controls and security are in place, so that digitized signatures are recreated on a Transaction-specific basis. The Acquirer may recreate the signature captured for a specific Transaction only in response to a retrieval request for the Transaction.
- Appropriate controls exist over employees with authorized access to digitized signatures maintained in the Acquirer or Merchant host computers.
 Only employees and agents with a "need to know" should be able to access the stored, electronically captured signatures.
- The digitized signatures are not accessed or used in a manner contrary to the Standards.

MasterCard reserves the right to audit Customers to ensure compliance with these requirements and may prohibit the use of ESCT if it identifies inadequate controls.

4.13 Component Authentication

All components actively participating in the Interchange System must authenticate each other by means of cryptographic procedures, either explicitly by a specific authentication protocol or implicitly by correct execution of a cryptographic service possessing secret information (for example, the shared key or the logon ID).

A component actively participates in the Interchange System if, because of its position in the system, it can evaluate, modify, or process security-related information.

4.14 Triple DES Migration Standards

Triple Data Encryption Standard (DES), minimum double key length (hereafter referred to as "Triple DES"), must be implemented as follows:

- All newly installed PEDs, including replacement and refurbished PEDs that are part of POS Terminals, must be Triple DES capable. This requirement applies to POS Terminals owned by Customers and non-Customers.
- All Customer and processor host systems must support Triple DES.
- It is strongly recommended that all PEDs that are part of POS Terminals be Triple DES compliant and chip-capable.
- All PEDs that are part of ATM Terminals must be Triple DES compliant.
- All PIN-based Transactions routed to the Interchange System must be Triple DES compliant.

MasterCard recognizes that Customers may elect to use other public key encryption methods between their POS Terminals or ATMs and their host(s). In such instances, MasterCard must approve the alternate method chosen in advance of its implementation and use.

Approval will be dependent, in part, on whether MasterCard deems the alternate method to be as secure as or more secure than Triple DES. **Approval is required before implementation can begin**. All Transactions routed to the Interchange System must be Triple DES compliant.

Chapter 5 Card Recovery and Return Standards

This chapter may be of particular interest to Customers that issue MasterCard® cards. It includes guidelines for personnel responsible for Card retention and return, reporting of lost and stolen Cards, and criminal and counterfeit investigations.

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| 5.1.1 Card Retention by Merchants | 5-2 |
| 5.1.1.1 Returning Recovered Cards | 5-1 |
| 5.1.1.2 Returning Counterfeit Cards | 5-2 |
| 5.1.1.3 Liability for Loss, Costs, and Damages | 5-2 |

5.1 Card Recovery and Return

The following sections address Customer responsibilities associated with Card retention and return, rewards for Card capture, reporting of lost and stolen Cards, and criminal and counterfeit investigations.

5.1.1 Card Retention by Merchants

Acquirers and Merchants should use their best efforts to recover a Card by reasonable and peaceful means if:

- The Issuer advises the Acquirer or Merchant to recover the Card in response to an authorization request.
- The Electronic Warning Bulletin file or an effective regional *Warning Notice* lists the account number.

After recovering a Card, the recovering Acquirer or Merchant must notify its authorization center or its Acquirer and receive instructions for returning the Card. If mailing the Card, the recovering Acquirer or Merchant first should cut the Card in half through the magnetic stripe.

Maestro Card capture at a Point-of-Sale (POS) Terminal is not permitted with respect to Interregional Transactions or Intraregional Transactions that occur within the Asia/Pacific, Latin America and the Caribbean, or United States Regions.

5.1.1.1 Returning Recovered Cards

The Acquirer must follow these procedures when returning a recovered Card to the Issuer:

- 1. If the Merchant has not already done so, the Acquirer must render the Card unusable by cutting it in half vertically through the magnetic stripe.
- 2. The Acquirer must forward the recovered Card to the Issuer within five calendar days of receiving the Card along with the first copy (white) of the Interchange Card Recovery Form (ICA-6). The additional copies are file copies for the Acquirer's records. Unless otherwise noted in the "Other Information" section of the Member Information tool, a recovered Card must be returned to the Security Contact of the Issuer.

NOTE

A sample of the Interchange Card Recovery Form (ICA-6) appears in the Business Forms section of MasterCard Connect™.

A Merchant may return a Card inadvertently left at the Merchant location if the Cardholder claims the Card before the end of the next business day and presents positive identification. With respect to unclaimed Cards, a Merchant must follow the Acquirer's requirements as set forth in the Merchant Agreement.

5.1.1.2 Returning Counterfeit Cards

The Acquirer or Merchant must return counterfeit Cards to the Issuer by following the instructions provided by its authorization center. The following information identifies an Issuer:

- The Issuer's MasterCard bank identification number (BIN) present in the Account Information Area.
- The Member ID imprinted in the Card Source Identification area on the back of the Card.

In the absence of a BIN or Member ID, the Issuer may be identified by any other means, including the bank name printed on the front or back of the Card or the magnetic stripe. If the Issuer is still unidentifiable, return the Card to the MasterCard vice president of the Security and Risk Services Department.

NOTE

The above method of identifying the Issuer applies only to the return of a counterfeit Card, not to determining the Customer responsible for the counterfeit losses associated with such Cards. For more information, refer to Chapter 6—Fraud Loss Control Standards of this manual.

5.1.1.3 Liability for Loss, Costs, and Damages

Neither MasterCard nor any Customer shall be liable for loss, costs, or other damages for claims declared against them by an Issuer for requested actions in the listing of an account or a Group or Series listing on the Electronic Warning Bulletin file or in the applicable regional *Warning Notice* by the Issuer. Refer to the *Account Management System User Manual* for information about the procedures for listing accounts.

If an Acquirer erroneously uses these procedures without the Issuer's guidance and authorizes Merchant recovery of a Card not listed on the Electronic Warning Bulletin file or in the applicable regional *Warning Notice*, neither MasterCard or its Customers shall be liable for loss, costs, or other damages if a claim is made against them.

No Customer is liable under this section for any claim unless the Customer has:

- Written notice of the assertion of a claim within 120 days of the assertion of the claim, and
- Adequate opportunity to control the defense or settlement of any litigation concerning the claim.

Chapter 6 Fraud Loss Control Standards

This chapter may be of particular interest to personnel responsible for fraud loss control programs, counterfeit loss procedures and reimbursement, and Acquirer counterfeit liability.

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6.2 MasterCard Fraud Loss Control Program Standards

The existence and use of meaningful controls are an effective means to limit total fraud losses and losses for all fraud types. This section describes minimum requirements for Issuer and Acquirer fraud loss control programs.

6.2.2 Acquirer Fraud Loss Control Programs

An Acquirer's fraud loss control program must meet the following minimum requirements, and preferably will include the recommended additional parameters. The program must automatically generate daily fraud monitoring reports or real-time alerts. Acquirer staff trained to identify potential fraud must analyze the data in these reports within 24 hours.

To comply with the fraud loss control Standards, Acquirers also must transmit complete and unaltered data in all Card-read authorization request messages.

Additionally, Acquirers with high fraud levels must:

- Install "read and display" terminals in areas determined to be at high risk for fraud or counterfeit activity, or
- Install Hybrid Point-of-Sale (POS) Terminals

6.2.2.1 Acquirer Authorization Monitoring Requirements

Daily reports or real-time alerts monitoring Merchant authorization requests must be generated at the latest on the day following the authorization request, and must be based on the following parameters:

- Number of authorization requests above a threshold set by the Acquirer for that Merchant
- Ratio of non-Card-read to Card-read Transactions that is above the threshold set by the Acquirer for that Merchant
- PAN key entry ratio that is above the threshold set by the Acquirer for that Merchant
- Repeated authorization requests for the same amount or the same Cardholder account
- Increased number of authorization requests
- "Out of pattern" fallback Transaction volume

6.2.2.2 Acquirer Merchant Deposit Monitoring Requirements

Daily reports or real-time alerts monitoring Merchant deposits must be generated at the latest on the day following the deposit, and must be based on the following parameters:

- Increases in Merchant deposit volume
- Increase in a Merchant's average ticket size and number of Transactions per deposit
- Change in frequency of deposits
- Frequency of Transactions on the same Cardholder account, including credit Transactions
- Unusual number of credits, or credit dollar volume, exceeding a level of sales dollar volume appropriate to the Merchant category
- Large credit Transaction amounts, significantly greater than the average ticket size for the Merchant's sales
- Credits issued subsequent to the receipt of a chargeback with the same account number and followed by a second presentment
- Credits issued to an account number not used previously at the Merchant location

90-day Rule

The Acquirer must compare daily deposits against the average Transaction count and amount for each Merchant over a period of at least 90 days, to lessen the effect of normal variances in a Merchant's business. For new Merchants, the Acquirer should compare the average Transaction count and amount for other Merchants within the same MCC assigned to the Merchant. In the event that suspicious credit or refund Transaction activity is identified, if appropriate, the Acquirer should consider the suspension of Transactions pending further investigation.

150 Percent Recommendation

To optimize the effectiveness of fraud analysis staff, Merchants that appear in the monitoring reports should exceed the average by 150 percent or more. However, the amount over the average is at the Acquirer's discretion.

6.2.2.3 Recommended Additional Acquirer Monitoring

MasterCard recommends that Acquirers additionally monitor the following parameters:

- Fallback methods
- Credit Transactions (such as refunds) and Merchant authorization reversals
- Transactions conducted at high-risk Merchants
- PAN key-entry Transactions exceeding ratio
- Abnormal hours or seasons
- Inactive Merchants
- Transactions with no approval code
- Transactions that were declined
- Inconsistent authorization and clearing data elements for the same Transactions

Web Site Monitoring Recommendation

MasterCard recommends that Acquirers use a Web site monitoring solution to review their electronic commerce (e-commerce) Merchants' activity to avoid processing illegal or brand-damaging Transactions.

6.3 MasterCard Counterfeit Card Fraud Loss Control Standards

MasterCard actively assists law enforcement in the pursuit of organized and informal criminal groups engaged in counterfeit fraud. Although MasterCard has achieved substantial success in this area, including numerous convictions of counterfeiters and seizures of their physical plants, organized criminal elements continue to expand, with new groups emerging almost daily.

In addition to implementing the fraud loss controls described in section 6.2, Customers must also make a good-faith attempt to limit counterfeit losses. At a minimum, an Issuer is required to incorporate the Card security features described in Chapter 3 on all Cards, and an Acquirer must transmit full magnetic stripe or chip data on all Card-read POS Transactions.

6.3.1 Counterfeit Card Notification

All Customers must notify MasterCard immediately upon suspicion or detection of counterfeit Cards.

6.3.1.2 Notification by Acquirer

An Acquirer detecting or suspecting a counterfeit Card bearing neither a valid BIN nor a valid Member ID immediately must notify its regional Security and Risk Services representative and the Issuer by phone, e-mail, or telex communication. MasterCard will add the account number to the Account Management System.

6.3.1.3 Failure to Give Notice

Failure by the Acquirer or Issuer to give notice within 24 hours of detecting a counterfeit Card relieves MasterCard of any responsibility for any resulting loss incurred by any party failing to give notice.

6.3.2 Responsibility for Counterfeit Loss

Certain losses resulting from counterfeit Transactions are the responsibility of either the Issuer or Acquirer based on the circumstances described in this section.

6.3.2.1 Loss from Internal Fraud

MasterCard is not responsible for any loss arising from or related to any fraudulent, dishonest, or otherwise wrongful act of any officer, director, or employee of a Customer, or of a Customer's Service Provider, agent, or representative.

6.3.2.3 Transactions Arising from Unidentified Counterfeit Cards

The Acquirer is responsible for any counterfeit loss resulting from or related to the acceptance by a Merchant of a Card that cannot be identified by the BIN or Member ID imprinted in the Transaction record.

6.3.3 Acquirer Counterfeit Liability Program

The Acquirer Counterfeit Liability Program is intended to combat increases in worldwide counterfeiting in the credit card industry. The Program shifts partial counterfeit loss liability to Acquirers that exceed worldwide counterfeit Standards.

Fraud Management uses the Acquirer counterfeit volume ratio (ACVR) to evaluate all Customers' volumes of acquired counterfeit. The ACVR is a Customer's dollar volume of acquired counterfeit as a percentage of the total dollar volume acquired by that Customer.

Fraud Management monitors the 20 Customers with the highest ACVRs on a quarterly basis. MasterCard notifies each Customer with liability of its own ACVR, the worldwide average, the reported counterfeit, and the amount of Customer liability calculated on a quarterly basis.

MasterCard uses funds obtained from Acquirers that exceed established annual thresholds to provide the following support:

- Recover the costs associated with the administration of this Program,
- Fund the development of new fraud control programs, and
- Supplement the MasterCard liability limit for the reimbursement of Issuers' counterfeit losses.

6.3.3.1 Acquirer Counterfeit Liability

An Acquirer is liable for any counterfeit volume that is above a threshold of 10 times the worldwide ACVR.

FMP review teams will provide a report to Acquirers whose ACVR exceeds 10 times the worldwide average with recommendations on how to reduce the volume of acquired counterfeit Transactions. If an Acquirer implements all of the programs recommended by Fraud Management, or takes necessary action to curb counterfeit, MasterCard will review the actions taken and may adjust the cumulative liability that would otherwise be imposed by the Program.

Counterfeit experience inconsistent with the implementation of the required programs will result in further FMP Level 3 Customer reviews by MasterCard.

For more information about the FMP, refer to Chapter 13 of this manual.

6.3.3.2 Acquirer Liability Period

The Acquirer's ACVR liability is computed for the period from 1 January through 31 December. ACVR liability is determined after final submission of counterfeit reimbursement claims for each 12-month cycle.

6.3.3.3 Relief from Liability

To qualify for relief from liability, an Acquirer must meet the following criteria:

- 1. The Acquirer must comply with the Acquirer loss control program Standards described in section 6.2.2.
- 2. The Acquirer must issue internal procedures designating responsibilities for monitoring the exception reports, explaining how they should be used, and defining actions to be taken when thresholds are exceeded. Customers will need to maintain internal records that clearly demonstrate supervisory review of such procedures and the periodic review of results by senior management.
- 3. The Acquirer must transmit the full, unedited ISO:8583 authorization message from terminal-read Transactions to the system.
- 4. The Acquirer that is subject to liability may be required by MasterCard to take additional action to attempt further to reduce its level of counterfeit losses.

MasterCard will provide relief from reversal of responsibility to Acquirers that exceed the threshold under the Acquirer Counterfeit Liability Program and that fully meet the aforementioned criteria.

NOTE

Acquirers must submit a written application for relief in order for MasterCard to provide relief from responsibility.

6.3.3.4 Application for Relief

An Acquirer must submit the written application for relief under signature of an appropriate officer, such as the Card center manager of that Customer. The following information must be included in the application:

- Certification that the requisite controls are in place
- A detailed description of the controls
- The specific parameters being used
- A copy of the procedures document described in section 6.3.3.3
- Sample copies of the automated exception reports

The application for relief must be submitted to the vice president of Fraud Management at the address provided in Appendix C.

The effective date of the provisions of relief will be no sooner than 90 days after the Acquirer has fully implemented the requisite controls. Release from responsibility for the Acquirer will not be granted until all of the requirements are in place for at least 90 days. Continued eligibility for relief will be subject to periodic review by Security and Risk Services staff, and may be revoked at any time.

Chapter 7 Merchant, Sub-merchant, and ATM Owner Screening and Monitoring Standards

This chapter may be of particular interest to Customer personnel responsible for screening and monitoring Merchants, Sub-merchants, and ATM Owners.

| 7.1 Screening New Merchants, Sub-merchants, and ATM Owners | 7-1 |
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7.1 Screening New Merchants, Sub-merchants, and ATM Owners

A Customer is responsible for ensuring that the procedures set forth in this section for the screening of a prospective Merchant, Sub-merchant, or ATM owner are performed before the Customer enters into a Merchant Agreement or ATM Owner Agreement or a Payment Facilitator of the Customer enters into a Sub-merchant agreement.

The performance of these screening procedures does not relieve a Customer from the responsibility of following good commercial banking practices. The review of an annual report or an audited statement, for example, might suggest the need for further inquiry.

7.1.1 Screening Procedures

Each Acquirer, before signing a Merchant Agreement or ATM Owner Agreement, and each of its Payment Facilitators, before signing a Sub-merchant agreement, must verify that the prospective Merchant, ATM owner, or Sub-merchant is a bona fide business. Such verification must include at least all of the following:

- Credit check, background investigations, reference checks of the entity, and a check for validity of the business address and other information provided by the entity. If the credit check of the entity raises questions or does not provide sufficient information, the Acquirer or Payment Facilitator, as applicable, also should conduct a credit check of:
 - The owner, if the entity is a sole proprietor; or
 - The partners, if the entity is a partnership; or
 - The principal shareholders, if the entity is a corporation.
- Inquiry to the MasterCard Member Alert to Control High-risk (Merchants) (MATCHTM) system about a prospective MasterCard Merchant or Sub-merchant. The Customer itself must perform a MATCH system inquiry about a prospective MasterCard Sub-merchant.
- Investigation of the previous Merchant Agreements of a prospective Merchant.
- Confirmation that all ATMs claimed by a prospective ATM owner exist and are operational.
- Verification of the location and condition of all ATMs deployed by a prospective ATM owner.

NOTE

No Customer is exempt from participation in the MATCH system.

An Acquirer is not required to conduct a credit check of a public or private company that has annual sales revenue in excess of USD 50 million (or the foreign currency equivalent), provided the Acquirer reviews, and finds satisfactory for purposes of the acquiring being considered, the most recent annual report of the Merchant, including audited financial statements. A private company that does not have a recent audited financial statement is subject to a credit check and inspection even if its annual sales revenue exceeds USD 50 million.

It is recommended that the Acquirer, with respect to a prospective Merchant or ATM owner, and the Payment Facilitator, with respect to a prospective Sub-merchant, perform an inspection of the entity's premises (both physical locations and Internet URLs, as applicable) and records to ensure that it has the proper facilities, equipment, inventory, agreements, and personnel required and if necessary, license or permit and other capabilities to conduct the business.

The Acquirer or Payment Facilitator should be satisfied that a prospective Merchant or Sub-merchant is able to support the fulfillment of products or services to be marketed, and ensure that the Merchant or Sub-merchant has procedures and resources to handle Cardholder inquiries and to support refunds, where necessary.

7.1.2 Evidence of Compliance with Screening Procedures

As evidence that the Acquirer is in compliance with the screening requirements set forth in this chapter, MasterCard requires, at a minimum, the following information:

- A report from a credit bureau, or, if the credit bureau report is incomplete
 or unavailable, the written results of additional financial and background
 checks of the business, its principal owners, and officers;
- With respect to the screening of a Merchant or Sub-merchant for MasterCard Transaction processing, proof of the Acquirer's inquiry into the MATCH system, including a copy of the inquiry record;
- With respect to the screening of a Merchant, a statement from the Merchant about previous Merchant Agreements, including the name(s) of the entity(ies) where the Merchant has or had the agreement(s) and the reason(s) for terminating the agreement(s), if applicable.

7.1.3 Retention of Investigative Records

The Acquirer must retain all records concerning the investigation of a Merchant, Sub-merchant, or ATM owner for a minimum of two years after the date that the Merchant Agreement, Sub-merchant agreement, or ATM Owner Agreement, as applicable, is terminated or expires. MasterCard recommends that Acquirers retain the following records as a best practice:

Merchant, Sub-merchant, and ATM Owner Screening and Monitoring Standards 7.1 Screening New Merchants, Sub-merchants, and ATM Owners

- Signed Merchant Agreement
- Previous Merchant statements
- Corporate or personal banking statements
- Credit reports
- Site inspection report, to include photographs of premises, inventory verification, and the name and signature of the inspector of record
- Merchant certificate of incorporation, licenses, or permits
- Verification of references, including personal, business, or financial
- Verification of the authenticity of the supplier relationship for the goods or services (invoice records) that the Merchant is offering the Cardholder for sale
- Date-stamped MATCH inquiry records
- Date-stamped MATCH addition record
- All Customer correspondence with the Merchant or ATM owner
- All correspondence relating to Issuer, Cardholder, or law enforcement inquiries concerning the Merchant, Sub-merchant, ATM owner, or any associated Service Provider
- Signed Service Provider contract, including the name of agents involved in the due diligence process
- Acquirer due diligence records concerning the Service Provider and its agents

Refer to Chapter 7 of the *MasterCard Rules* manual for more information about Service Providers

NOTE

MasterCard recommends that the Acquirer retain these records to verify compliance with the screening procedures, in the event that MasterCard conducts an audit as described in section 7.1.4.

7.1.4 Assessments for Noncompliance with Screening Procedures

MasterCard may audit an Acquirer for compliance with the screening procedures set forth in this chapter, and each Customer must comply with and assist any such audit. MasterCard will review the applicable records retained by the Acquirer to determine whether an Acquirer has complied with these screening procedures.

If MasterCard determines that an Acquirer has not complied with these screening procedures, and if the Acquirer does not correct all deficiencies that gave rise to the violation to the satisfaction of MasterCard within 30 days of knowledge or notice of such deficiencies, MasterCard may assess the Acquirer up to USD 100,000 for each 30-day period following the aforementioned period, with a maximum aggregate assessment of USD 500,000 during any consecutive 12-month period. Any such assessment(s) will be in addition to any other financial responsibility that the Acquirer may incur, as set forth in the Standards. Violators will also be subject to chargebacks of fraudulent Transactions.

Failure to inquire to the MATCH system before signing a Merchant Agreement for MasterCard Transaction processing or before a Payment Facilitator signs a Sub-merchant agreement for MasterCard Transaction processing may result in an assessment of up to USD 5,000 for each instance of noncompliance.

7.2 Ongoing Monitoring

An Acquirer must monitor the Transaction activity of each of its Merchants (sales, credits, and chargebacks), and ensure that a Payment Facilitator conducts such monitoring with respect to each of its Sub-merchants, in an effort to deter fraud. Monitoring must focus on changes in activity over time, activity inconsistent with the Merchant's or Sub-merchant's business, or exceptional activity relating to the number of Transactions and Transaction amounts outside the normal fluctuation related to seasonal sales. Specifically for MasterCard Transaction processing, ongoing monitoring includes, but is not limited to, the Acquirer fraud loss controls relating to deposit (including credits) and authorization activity described in section 6.2.2.

With respect to an electronic commerce (e-commerce) Merchant, the Acquirer regularly, as reasonably appropriate in light of all circumstances, must review and monitor the Merchant's Web site(s) and business activities to confirm and to reconfirm regularly that any activity related to or using a Mark is conducted in a legal and ethical manner and in full compliance with the Standards. The Acquirer must ensure that a Payment Facilitator conducts such monitoring with respect to each of its Sub-merchant's Web site(s).

As a best practice, MasterCard recommends that Acquirers use a Web site monitoring solution to review their e-commerce Merchants' and Sub-merchants' activity to avoid processing illegal or brand-damaging Transactions.

7.3 Additional Requirements for Certain Merchant and Sub-merchant Categories

An Acquirer of a telecom Merchant or Sub-merchant (except a key-entry telecom Merchant or Sub-merchant), non-face-to-face adult content and services Merchant or Sub-merchant, non-face-to-face gambling Merchant or Sub-merchant, non-face-to-face pharmaceutical and tobacco product Merchant or Sub-merchant, state lottery Merchant or Sub-merchant (U.S. Region only), skill games Merchant or Sub-merchant (U.S. Region only), and/or Merchant or Sub-merchant reported under the Excessive Chargeback Program (ECP) must comply with the registration and monitoring requirements of the MasterCard Registration Program (MRP) for each such Merchant or Sub-merchant, as described in Chapter 9.

7.3.1 Merchant Education

Once an acquiring relationship is established, an Acquirer must institute a fraud prevention program, including an education process consisting of periodic visits to Merchants, distribution of related educational literature, and participation in Merchant seminars. Instructions to Merchants must include Card acceptance procedures, use of the Electronic Warning Bulletin file or *Warning Notice*, authorization procedures including Code 10 procedures, proper completion of Transaction information documents (TIDs) (including primary account number [PAN] truncation), timely presentment of the Transaction to the Acquirer, and proper handling pursuant to Card capture requests. Customers must thoroughly review with Merchants the Standards against the presentment of fraudulent Transactions. In addition, Customers must review the data security procedures to ensure that only appropriate Card data is stored, magnetic stripe data never is stored, and any storage of data is done in accordance with the Standards for encryption, Transaction processing, and other prescribed practices.

An Acquirer must also ensure that a Payment Facilitator conducts appropriate education activities for each of its Sub-merchants.

Chapter 8 MasterCard Fraud Control Programs

This chapter may be of particular interest to Customer personnel responsible for monitoring Merchant and/or Issuer activity for compliance with fraud loss control Standards.

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8.1 Presenting Valid Transactions

A Merchant must present to its Acquirer only valid Transactions between itself and a bona fide Cardholder.

A Merchant must not present a Transaction that it knows or should have known to be fraudulent or not authorized by the Cardholder, or authorized by a Cardholder who is in collusion with the Merchant for a fraudulent purpose. Within the scope of this rule, the Merchant is responsible for the actions of its employees.

8.1.1 Notifying MasterCard—Acquirer Responsibilities

An Acquirer must immediately notify Merchant Fraud Control staff in writing when, in regard to a Merchant with whom it has entered into a MasterCard Merchant Agreement:

- The Acquirer may have reason to believe that the Merchant is engaging in collusive or otherwise fraudulent or inappropriate activity, **or**
- The Acquirer determines that the Merchant's ratio of chargebacks, credits to sales exceeds criteria established by MasterCard.

An Acquirer must accept chargebacks for all fraudulent MasterCard Transactions that took place during the period when the Merchant was in violation of Rule 5.12 of the *MasterCard Rules* manual ("the Valid Transactions Rule").

Moreover, if an Acquirer fails to identify and declare a Merchant in violation of the Standard, MasterCard may do so after an audit of the Customer's Merchant file and records.

8.1.3 MasterCard Audit

MasterCard, in its sole discretion, and either itself or by use of a third party, may conduct an audit of an Acquirer's Merchant files and records to determine whether the Merchant is in violation of the Valid Transactions Rule. Merchant Fraud Control staff will notify the Acquirer of a decision to conduct such an audit. An Acquirer and its Merchants must cooperate fully. During the audit, MasterCard may list the Merchant on the Member Alert to Control High-risk (Merchants) (MATCHTM) system under MATCH reason code 00 (Questionable Merchant/Under Investigation).

In the course of the audit, staff will develop allegations from any available sources, including, but not limited to, internal studies, analyses, Customer input and complaints, and from information derived from compliance actions regarding activities by Merchants which would raise serious concerns as to whether such Merchants have caused to be entered into interchange Transactions which the Merchants knew or should have known were fraudulent or resulted in excessive costs to the industry.

It is the obligation of the Acquirer to monitor each Merchant closely.

MasterCard may assess the Acquirer for costs and expenses incurred related to the audit.

8.1.3.1 Initiation of MasterCard Audit

If MasterCard suspects that a Merchant may be in violation of the Valid Transactions Rule, MasterCard will send a letter to the Security Contact listed in the Member Information tool. The Security Contact is responsible for distributing the letter to the person responsible for the Acquirer's Merchant audit programs. The letter explains why MasterCard is conducting the audit and assessments associated with violations of the Valid Transactions Rule. Customers must return the requested information to Merchant Fraud Control for each Merchant listed in the letter within 30 calendar days of the date of the cover letter.

8.1.3.2 Information Required by MasterCard

The following is a list of some of the items that MasterCard may require Acquirers to provide during the course of an audit, initiated by MasterCard to determine whether an Acquirer's Merchant was in violation of the Valid Transactions Rule:

- 1. A detailed statement of facts explaining whether, when, and how the Customer became aware of fraudulent activity or chargeback or customer service issues, the steps taken by the Customer to control the occurrence of fraud, and the circumstances surrounding the Merchant's termination.
- 2. All internal documents about the opening and signing of the Merchant including its application, Merchant Agreement, credit report, and certified site inspection report. (The Acquirer should include the Merchant's opening and closing dates.)
- 3. All internal Customer documents regarding the due diligence procedures followed before signing the Merchant, including background checks of the company and its principals, and the telephone logs for trade and bank references that the Customer verified during the due diligence procedure.
- 4. Internal reports, where applicable, confirming inquiry by the Customer into the MATCH system before signing the Merchant and, if applicable, input of the Merchant to the MATCH system database within five business days after its decision to close the Merchant as specified in these rules.

If a Service Provider of an Acquirer facilitates the signing of a Merchant, the Service Provider must include the due diligence documents.

Additionally, if an Acquirer's Service Provider assisted in the signing of the Merchant, the Customer must provide all Service Provider due diligence documents regarding the representative that signed the Merchant.

Staff will establish an audit (review) period for which the Acquirer must provide the following supporting documentation:

1. Authorization logs for the Merchant.

- 2. If requested to do so, the Acquirer must provide a monthly breakdown of chargebacks and credits by count, amount, and Issuer bank identification number (BIN) for the suspected violation period, as specified by MasterCard.
- 3. A complete record of the Merchant sales volume, including the number of Transactions at the location, for the period for which MasterCard requests the authorization logs. Customers outside the U.S. Region that do not report their local fraud to the System to Avoid Fraud Effectively (SAFE) may not include local sales in the Merchant's sales volume.

MasterCard may require the Customer to provide additional information deemed relevant to the audit. In the event that an Acquirer refuses to disclose information requested by MasterCard, MasterCard may, in its sole discretion for the purpose of the audit, presume that the information would not be favorable to the Acquirer and declare the Merchant in violation of the Valid Transactions Rule.

8.1.3.3 Notification to Customers of Chargeback Period

If MasterCard determines that a Merchant is in violation of the Valid Transactions Rule, MasterCard will publish a *Global Security Bulletin* identifying the Merchant and specifying the appropriate chargeback period. The Issuer has 120 calendar days from the date of the *Global Security Bulletin* to charge back Transactions to the Acquirer (using IPM message reason code 4849—Questionable Merchant Activity).

In the case of Transactions occurring after the date of the *Global Security Bulletin*, but within the dates specified, the Issuer has 120 calendar days from the date of the Transaction to charge back the Transactions. The Issuer must include the number of the *Global Security Bulletin* (for example, "*Global Security Bulletin* No. XX") in the Data Record Text (Data Element 72) when processing the chargeback.

8.2 Global Merchant Audit Program

The Global Merchant Audit Program (GMAP) uses a rolling six months of data to identify MasterCard Merchant locations that, in any calendar month, meet the criteria set forth in Table 8.1.

Table 8.1—Fraud Criteria for Global Merchant Audit Program Tier Classification

| A MasterCard Merchant location is classified in the following GMAP tier | If in any calendar month, the MasterCard Merchant location meets the following fraud criteria | | |
|---|---|--|--|
| Tier 1—Informational Fraud Alert | Three fraudulent Transactions | | |
| | • At least USD 3,000 in fraudulent Transactions | | |

| A MasterCard Merchant location is classified in the following GMAP tier | If in any calendar month, the MasterCard Merchant location meets . the following fraud criteria | | | |
|---|---|--|--|--|
| | • A fraud-to-sales dollar volume ratio minimum of 3% and not exceeding 4.99% | | | |
| Tier 2—Suggested Training Fraud Alert | Four fraudulent Transactions | | | |
| | • At least USD 4,000 in fraudulent Transactions | | | |
| | • A fraud-to-sales dollar volume ratio minimum of 5% and not exceeding 7.99% | | | |
| Tier 3—High Fraud Alert | Five fraudulent Transactions | | | |
| | • At least USD 5,000 in fraudulent Transactions | | | |
| | A fraud-to-sales dollar volume ratio minimum of 8% | | | |

If a MasterCard Merchant location is identified in multiple tiers during any rolling six-month period, GMAP will use the highest tier for the Merchant identification.

NOTE

If a MasterCard Merchant has more than one location (or outlet), the program criteria apply to each location independently.

8.2.1 Acquirer Responsibilities

MasterCard will notify an Acquirer of the identification of a Tier 1, Tier 2, or Tier 3 Merchant via the Merchant Online Status Tracking (MOST) tool. GMAP Merchant identifications are provided for information only and no Acquirer response is necessary. If MasterCard notifies an Acquirer via MOST that a Tier 3 special Merchant audit has been initiated, the Acquirer must respond as described in section 8.2.2.

When a Merchant is identified in Tier 1, Tier 2, or Tier 3, the Acquirer should evaluate the fraud control measures and Merchant training procedures in place for the Merchant. MasterCard strongly recommends that the Acquirer act promptly to correct any identified deficiencies. Suggested enhancements are described in the *GMAP Best Practices Guide for Acquirers and Merchants to Control Fraud*.

MasterCard, in its sole discretion, may conduct an audit to determine whether a Merchant location is in violation of the Valid Transactions Rule, as described in section 8.1.3, and may assign chargeback liability.

8.2.2 Tier 3 Special Merchant Audit

If GMAP identifies a Merchant location in Tier 3, MasterCard will determine whether to initiate an audit of the Merchant location ("a Tier 3 special Merchant audit"). If MasterCard decides to conduct a Tier 3 special Merchant audit, the audit will proceed as follows:

- 1. **MasterCard notifies Acquirer.** The Acquirer will receive notification from MasterCard, through MOST, that a Tier 3 special Merchant audit has been initiated.
- 2. Acquirer response due within 30-day response period. No later than 30 days after the Tier 3 special Merchant audit notification date ("the 30-day response period"), the Acquirer must respond to the audit notification through MOST by either:
 - a. Notifying MasterCard that the Acquirer has terminated the Merchant (if the Acquirer determines that the Merchant must be reported to the MATCH system, the Acquirer may do so through MOST), or;
 - b. Completing the online questionnaire, if the Acquirer did not terminate the Merchant. This questionnaire is used to inform MasterCard of 1) any exceptional or extenuating circumstances pertaining to the identified Merchant's fraud and 2) the fraud control measures in place at the Merchant location.

Upon review of the completed online questionnaire, MasterCard, at its sole discretion, may:

- Grant the Merchant location an exclusion for the Merchant identification, or;
- Provide the Acquirer with the opportunity to implement additional fraud control measures ("the fraud control action plan"), as directed by MasterCard, at the Merchant location, or;
- Assign chargeback responsibility to the Acquirer for the Merchant location.
- 3. Fraud control action plan required within 90-day action period. If MasterCard requires the Acquirer to implement a fraud control action plan, MasterCard will provide the plan to the Acquirer through MOST. The Acquirer has 90 days from the first day of the month following the month in which the Merchant was identified in GMAP ("the 90-day action period") to take all required actions, including but not limited to confirmation that such fraud control action plan has taken effect. MasterCard may extend the 90-day action period at its sole discretion. For Acquirers that implement a fraud control action plan, the identified Merchant is again eligible to be newly identified in GMAP commencing on the sixth month following the month in which the Merchant was first identified in GMAP. Fraudulent Transactions reported to SAFE will be reviewed under the Program commencing on the fourth and fifth months following the month in which the Merchant was first identified in GMAP, and will continue incrementally

thereafter until the Merchant resumes a six-month rolling review period, provided the Merchant does not exceed the GMAP Tier 1, 2, or 3 thresholds.

The Acquirer of a Merchant subject to a Tier 3 special Merchant audit must provide satisfactory documentation to substantiate that reasonable controls to combat fraud have been implemented, including implementation of a MasterCard directed fraud control action plan.

Refer to Figure 8.1 for a sample timeline of a Tier 3 special Merchant audit.

Figure 8.1—Tier 3 Special Merchant Audit Sample Timeline

| February | Month 1 March | Month 2 April | Month 3 May | Month 4 June | Month 5 July | Month 6 August |
|---|--|---|--|---|---|---|
| 30-DAY RE PER 15 February | IOD | | | GMAP reviews SA Months 4 and 5, a rolling six months | ntation of the fraud of AFE reported frauduly and incrementally the is resumed. Month 6, GMAP revie | ent transactions for reafter until a |
| | 90 | -DAY ACTION PERION 1 March to 30 May | OD | | | |
| 2 February GMAP identifies a merchant in Tier 3. MasterCard conducts a review | 15 March The end of the 30-day response period. The acquirer must | 31 March to 29 May The acquirer implements the fraud control action | 30 May By this date, the acquirer must have implemented the fraud control | Fraud reported to SAFE becomes eligible for GMAP identification. | Fraud reported to SAFE becomes eligible for GMAP identification. | Merchant is eligible for GMAP identification. |
| of fraud criteria. 15 February By this date, MasterCard is expected to have notified the acquirer that a Tier 3 special merchant audit has been initiated. | respond in MOST by either indicating that the merchant has been terminated or by completing the online questionnaire through MOST. 30 March By this date, MasterCard is expected to have determined whether further action is required, and if so, provide a fraud control action plan. | plan. | action plan at the merchant location. MasterCard requires the acquirer to confirm successful implementation. | MasterCard may I Global Security B | | ng |

8.2.3 Chargeback Responsibility

MasterCard will review each Acquirer of a Merchant location subject to a Tier 3 special Merchant audit on a case-by-case basis and determine, at the sole discretion of MasterCard, if a chargeback liability period is applicable. The chargeback liability period is for six months and begins on the first day of the fourth month following the GMAP Tier 3 identification.

MasterCard, at its sole discretion, may extend the chargeback liability period to 12 months.

MasterCard reserves the right to list the Acquirer ID, Acquirer name, Merchant name, Merchant location, and chargeback liability period of any Tier 3 Merchant in a *Global Security Bulletin*.

When MasterCard lists the Acquirer and Merchant information in a *Global Security Bulletin*, Issuer chargeback rights will apply. Each Issuer then has a right to use message reason code 4849—Questionable Merchant Activity to charge back to the Acquirer any fraudulent Transactions from the Merchant that are reported to SAFE with the following fraud types:

- 00—Lost Fraud,
- 01—Stolen Fraud,
- 04—Counterfeit Card Fraud,
- 06—Card Not Present¹ Fraud, or
- 07—Multiple Imprint Fraud.

Each Transaction charged back must have occurred during the published chargeback period and must be reported to SAFE within the applicable time frame (refer to Chapter 12 of this manual). Issuers may not use message reason code 4849 to charge back Transactions from an Acquirer and Merchant identified in GMAP if the fraud type is:

- 02—Never Received Issue,
- 03—Fraudulent Application,
- 05—Account Takeover Fraud, or
- 51—Bust-out Collusive Merchant.

Once MasterCard lists the Acquirer ID, Acquirer name, Merchant name, Merchant location, and chargeback responsibility period in a *Global Security Bulletin*, the Issuer may not use message reason code 4849—Questionable Merchant Activity, in any of the following situations:

Refer to Issuer restrictions on chargebacks for message reason code 4849 for the MasterCard® SecureCode™ global liability shift as described later in this section.

- The Transaction was not reported properly to SAFE within the applicable time frame specified in this manual.
- The Transaction was reported to SAFE as a fraud type of Never Received Issue (02), Fraudulent Application (03), Account Takeover Fraud (05), or Bust-out Collusive Merchant (51).
- If the *SecureCode* global liability shift for e-commerce Transactions is in effect, and all of the following conditions occur:
 - The Merchant is Universal Cardholder Authentication Field (UCAF™)-enabled, and
 - The Issuer provided the UCAF data for that Transaction, and
 - All other e-commerce Authorization Request/0100 message and clearing requirements were satisfied, and
 - The Authorization Request Response/0110 message reflected the Issuer's approval of the Transaction.
- If an intracountry or intraregional chip liability shift or the interregional Chip Liability Shift Program (Level 1) is in effect, the Transaction was processed at a chip compliant Point-of-Interaction (POI) terminal, the Transaction was reported to SAFE as counterfeit fraud, and either the Transaction was identified properly as 1) an offline chip Transaction in the clearing record, or 2) as an online Transaction in the Authorization Request/0100 message, and the Authorization Request Response/0110 message reflected the Issuer's approval of the Transaction.

8.2.4 Exclusion from the Global Merchant Audit Program

The following sections address exclusions from GMAP.

8.2.4.1 Systematic Exclusions

The following Transactions systematically are excluded for the purposes of determining the identification of a Merchant in GMAP:

- **Debit Fraud**—This includes all fraud related to Cirrus (CIR) and Maestro (MSI).
- All Never Received Issue, Fraudulent Application, Account Takeover (ATO), and Bust-out Collusive Merchant fraud types—This includes all Transactions reported to SAFE as fraud type:
 - 02—Never Received Issue
 - 03—Fraudulent Application
 - 05—Account Takeover Fraud
 - 51—Bust-out Collusive Merchant

8.2.4.2 Exclusion after GMAP Identification

After MasterCard provides notification to an Acquirer that a Tier 3 special Merchant audit has been initiated, the Acquirer may request that MasterCard exclude the Merchant for good cause.

When requesting an exclusion, the Acquirer must submit the completed special Merchant audit online questionnaire within 30 days of the Tier 3 special Merchant audit notification and provide such other supporting information that MasterCard requires.

MasterCard staff will decide whether to exclude a Merchant from GMAP.

When evaluating exclusion requests, MasterCard may consider such matters as:

• A fraud-to-sales dollar volume ratio below 8 percent—If the Merchant's MasterCard dollar volume is not systematically available for calculation, the Acquirer will have the opportunity to provide this data to MasterCard for review. To recalculate the Merchant fraud-to-sales dollar volume ratio, the Acquirer must present supporting documentation to show only the MasterCard sales for the identified location during the applicable months in which the identification criteria are met.

If the supporting documentation demonstrates that the Merchant location did not exceed the Tier 3 fraud thresholds, the Acquirer will receive an exclusion for the Merchant.

If the supporting documentation demonstrates that the Merchant's fraud-to-sales ratio exceeds 8 percent, MasterCard will take action as described in section 8.2.2.

- The fraud control Program currently in place at the Merchant location—MasterCard will review information pertaining to the fraud control Program currently in place at the Merchant location to establish if additional fraud control measures could have prevented or reduced the fraud.
- A chain Merchant—A chain Merchant is defined in the *IPM Clearing Formats* under Data Element (DE) 43 (Card Acceptor Name/Location) as one of multiple Merchant outlets having common ownership and selling the same line of goods or services. MasterCard Standards further indicate that subfield 1 (Card Acceptor Name) of this data element must contain a unique identifier at the end of this field if the Merchant has more than one location in the same city. It is the Acquirer's responsibility to ensure that all Merchants of this nature are identified properly. Merchants with multiple locations that are in compliance with this Standard are identified uniquely in the audit programs.

Acquirers with a Merchant subject to a Tier 3 special Merchant audit based on a calculation inclusive of more than one location may apply for an exclusion. To apply for such an exclusion, the Acquirer must provide MasterCard with fraud and sales data for each location within the chain. If the same Merchant ID number is used to identify all of the Merchant locations, the Acquirer must further provide a copy of the sales draft for each Transaction identified as fraudulent.

Exclusions based on other exceptional or extenuating circumstances—An Acquirer may request an exclusion for a Merchant location from a Tier 3 special Merchant audit based on exceptional or extenuating circumstances by providing appropriate information.

The following are examples of information that MasterCard will consider with regard to an exclusion request for exceptional or extenuating circumstances:

1. SAFE data error:

- Erroneous Transaction amount reported
- Reported Transaction amount inflated as a result of currency conversion
- Transaction reported under incorrect Acquirer ID or Merchant name
- Duplicate Transactions reported
- Non-fraudulent Transaction reported to SAFE in error (such as a dispute)
- 2. The Merchant captured fraudulent Card(s) transacted at its location.
- 3. The Merchant assisted with the apprehension and conviction of criminal(s) that transacted fraudulent Cards at its location.
- 4. The Merchant identified fraudulent Transactions before shipping merchandise and issued credits to the Cardholder account in a timely fashion, provided the credit was not issued in response to a retrieval request or chargeback.

8.2.5 Notification of Merchant Identification

When a Merchant location is identified in GMAP, MasterCard will report the Merchant identification in MOST, detailing the identification.

In addition, the Acquirer will receive the Global Merchant Audit Program Report.

Acquirers must use MOST to respond to a Tier 3 special Merchant audit notification.

NOTE

Acquirers are responsible for ensuring that they are capable of receiving notification of Merchants identified in GMAP. If an Acquirer does not receive an automated notification, it is the Acquirer's responsibility to obtain this information through MasterCard ConnectTM.

8.2.5.1 Distribution of Reports

Refer to the MOST Users' Manual for information about the distribution of GMAP reports.

8.2.6 Merchant Online Status Tracking (MOST) System

The MOST system resides on the MasterCard Connect platform, and is used to administer the process for Merchants identified in GMAP. The MOST system allows an Acquirer to:

- View each Merchant identified in GMAP
- Determine the reasons that a Merchant was identified in GMAP
- Retrieve full Transaction details for each identified Merchant via Fraud Reporter
- View the status of each Merchant subject to a Tier 3 special Merchant audit
- Complete an online questionnaire as required by MasterCard for a Tier 3 special Merchant audit
- Determine the chargeback liability period for each Merchant subject to a Tier 3 special Merchant audit

8.2.6.1 MOST Mandate

Acquirers must use the MOST system available on MasterCard Connect when required by MasterCard to respond to a Tier 3 special Merchant audit in MOST. MasterCard will assess a USD 100 processing fee per individual Merchant identification for an Acquirer that does not solely use MOST to respond to a Tier 3 special Merchant audit.

MasterCard will assess the USD 100 processing fee only one time for each required Tier 3 special Merchant audit response. The fee will be collected by debiting the Acquirer's MasterCard Consolidated Billing System (MCBS) account.

In addition, MasterCard may assess an Acquirer a USD 100 processing fee if the Tier 3 special Merchant audit response is completed in MOST and is submitted using any other additional method. However, if an Acquirer responds to a Tier 3 special Merchant audit via MOST and then chooses to submit supporting documentation via another communication method, or to engage in dialogue with MasterCard staff, then MasterCard will not assess the Acquirer a processing fee.

MOST and MATCH have been incorporated into one suite of mandated products for which Acquirers globally are assessed a combined annual fee of USD 4,000.

8.2.6.2 MOST Registration

To use MOST, a user must be licensed for each acquiring Member ID/ICA number at a child level, regardless of a parent/child relationship. Each user access request to the MOST system first is submitted by the requester via the MasterCard Connect Store on MasterCard Connect. The request then is submitted to the Customer's MasterCard Online Administration Tool (MAT) administrator for approval. The MAT administrator is responsible for approving authorization for a Customer user or processor to use the MOST system for that Customer's specified Member IDs/ICA numbers. After the access request is approved by the MAT administrator, the request automatically is sent to MasterCard for processing.

MasterCard will decline requests for access to the MOST system that are not complete, accurate, or approved by the MAT administrator for each Member ID/ICA number for which the user is requesting MOST access. MasterCard staff reserves the right to request written authorization from a Customer's Security Contact, Principal Contact, or MATCH Contact to validate the user's request for MOST access. When MasterCard declines a user access request, the user must resubmit a subsequent online MOST product registration request to the Customer's MAT administrator for approval. Once approved by the MAT administrator, the request automatically will be routed to MasterCard for processing.

To register for MOST, login to MasterCard Connect (www.mastercardconnect.com) by entering your **User ID** and **Password**, then request access to MOST from the **MasterCard Connect Store** menu.

For additional assistance with registering for the MOST online system, contact the Customer Operations Services team using the contact information provided in section C.6 of Appendix C.

8.3 Excessive Chargeback Program

MasterCard designed the Excessive Chargeback Program (ECP) to encourage each Acquirer to closely monitor, on an ongoing basis, its chargeback performance at the Merchant level and to determine promptly when a MasterCard Merchant has exceeded or is likely to exceed monthly chargeback thresholds.

8.3.1 ECP Definitions

The following terms used in the ECP have the meanings set forth below.

Merchant

A Merchant is defined as any distinct MasterCard Merchant location, whether a Merchant's physical location or a Merchant's Internet site or uniform resource locator (URL) that is identified by a distinct billing descriptor by the Acquirer in the Transaction record.

Chargeback-to-Transaction Ratio (CTR)

The CTR is the number of MasterCard chargebacks received by the Acquirer for a Merchant in a calendar month divided by the number of the Merchant's MasterCard sales Transactions in the preceding month acquired by that Acquirer. (A CTR of 1% equals 100 basis points, and a CTR of 1.5% equals 150 basis points.)

Chargeback-Monitored Merchant (CMM) A CMM is a Merchant that has a CTR in excess of 100 basis points and at least 100 chargebacks in a calendar month.

Excessive Chargeback Merchant (ECM) A Merchant is an ECM if in each of two consecutive calendar months (the "trigger months"), the Merchant has a minimum CTR of 150 basis points and at least 100 chargebacks in each month. This designation is maintained until the ECM's CTR is below 150 basis points for two consecutive months.

Tier 1 ECM

A Merchant is a Tier 1 ECM during the first through sixth month (whether consecutive or non-consecutive) that the Merchant is identified as an ECM

Tier 2 ECM

A Merchant is a Tier 2 ECM during the seventh through twelfth month (whether consecutive or non-consecutive) that the Merchant is identified as an ECM.

8.3.2 Reporting Requirements

It is the Acquirer's responsibility on an ongoing basis to monitor each of its Merchants in accordance with the Standards, including but not limited to sections 6.2.2, 7.2, and 7.3.1 of this manual.

The ECP requires an Acquirer to calculate, for each calendar month, the CTR in basis points for each of its Merchants and report to MasterCard any Merchant that is a CMM or ECM as defined in section 8.3.1.

MasterCard will assess an Acquirer of an ECM the reporting fee set forth in section 8.3.2.2.

8.3.2.1 Chargeback-Monitored Merchant Reporting Requirements

Each calendar month, an Acquirer must submit to MasterCard a separate CMM report for each of its Merchant(s) that qualifies as a CMM for the previous calendar month. For the purpose of determining if an Acquirer is obligated to submit a CMM report, the Acquirer must calculate the CTR as set forth in section 8.3.1. The Acquirer must submit this report no later than 45 days from the end of the calendar month.

The Acquirer must submit the CMM report in a form and manner required by MasterCard. The Acquirer also must provide a copy of the CMM report and these ECP Standards to the specific CMM.

The Acquirer must continue to provide CMM reporting until the Merchant is no longer identified as a CMM for two consecutive months.

8.3.2.1.1 CMM Report Contents

The CMM report must include all of the following information:

- The name and location of the CMM
- The calendar month of CMM qualification being reported
- The CTR of the CMM for the reported calendar month
- The Card acceptor business code/Merchant category code (MCC) assigned to the CMM and a description of the nature of the CMM's business
- The number and gross dollar volume (GDV) of the CMM's MasterCard sales Transactions in the reported calendar month and in the preceding month
- The number and GDV of chargebacks of the CMM's MasterCard sales Transactions for the reported calendar month
- Any additional information as MasterCard may require

8.3.2.1.2 Late CMM Report Submission Assessment

If MasterCard determines that a Merchant is a CMM and the Acquirer fails to submit a timely CMM report to MasterCard for that Merchant, MasterCard may assess the Acquirer up to USD 5,000 per month for each month that a specific monthly CMM report is overdue.

8.3.2.2 Excessive Chargeback Merchant Reporting Requirements

Within 30 days of the end of the second trigger month, and on a monthly basis thereafter, the Acquirer must submit a separate ECM report for each of its ECMs (in lieu of a CMM report) until that ECM's CTR is below 150 basis points for two consecutive months. The Acquirer also must provide a copy of the ECM report and these ECP Standards to the specific ECM. MasterCard will assess the Acquirer a reporting fee of USD 100 for each ECM report submitted.

The Acquirer must continue to provide monthly ECM reporting until the Merchant is no longer identified as an ECM for two consecutive months. If during those months the Merchant is identified as a CMM, then the CMM reporting requirements will apply.

8.3.2.2.1 ECM Report Contents

The ECM report must include all of the information required for the CMM report, and the following additional information:

- A description of the Acquirer's chargeback controls in place to monitor the ECM's activities
- An evaluation of the practices that caused the ECM to exceed the ECP Standard
- An Acquirer action plan to reduce the ECM's CTR
- An electronic file that contains chargeback Transaction details for each chargeback received by the Acquirer for the ECM in the calendar month
- Any additional information as MasterCard may require from time to time

MasterCard will assess the Acquirer a reporting fee of USD 100 for each ECM report submitted.

8.3.2.2.2 Late ECM Report Submission Assessment

If MasterCard determines that a Merchant is an ECM and the Acquirer fails to submit a timely ECM report to MasterCard for that ECM, MasterCard may assess the Acquirer up to USD 500 per day for each of the first 15 days that the ECM report for that ECM is overdue and up to USD 1,000 per day thereafter until the delinquent ECM report is submitted.

8.3.3 Assessments

In addition to any applicable assessments for ECM reports or late report submissions, MasterCard may assess the Acquirer for Issuer reimbursement fees and violation assessments for excessive chargebacks arising from an ECM. MasterCard calculates the Issuer reimbursement fees and assessments as described in section 8.3.3.1 and they apply in each calendar month that the ECM exceeds a CTR of 150 basis points after the first trigger month. For the purposes of calculating Issuer reimbursement fees and assessments only (and not for the purpose of satisfying the reporting requirements contained herein), an Acquirer may offer an alternative CTR calculation that more accurately "maps back" or links the chargebacks to the relevant sales Transactions.

For the first 12 months of a Merchant's identification as an ECM, MasterCard will consider the Merchant's actual chargeback volume as a factor in its determination of Acquirer liability. During this period, MasterCard will assess the Acquirer the lesser of:

- The total of the Issuer reimbursement plus violation assessment amounts, calculated as described in section 8.3.3.1 for a given month, or
- The Merchant's chargeback dollar volume reported by the Acquirer for that month.

8.3.3.1 ECP Assessment Calculation

MasterCard determines an Acquirer's liability for the monthly Issuer reimbursement fees and assessments for each ECM as set forth below. MasterCard calculates the Issuer reimbursement fees in the following steps 1, 2, and 3, and calculates the violation assessment in step 4.

- 1. Calculate the CTR for each calendar month that the ECM exceeded a CTR of 150 basis points (which may also be expressed as 1.5% or 0.015).
- 2. From the total number of chargebacks in the above CTR calculation, subtract the number of chargebacks that account for the first 150 basis points of the CTR. (This amount is equivalent to 1.5 percent of the number of monthly sales Transactions used to calculate the CTR.) The result is the number of chargebacks above the threshold of 150 basis points.
- 3. Multiply the result from step 2 by USD 25. This is the Issuer reimbursement.
- 4. Adjust the result in step 3 to reflect the extent that the Acquirer has exceeded the 150 basis points threshold by multiplying the value in step 3 by the CTR (expressed as basis points). Divide this result by 100. This amount is the violation assessment.

Repeat steps 1–4 for each calendar month (other than the first trigger month) that the ECM exceeded a CTR of 150 basis points or 1.5 percent.

Example: The Acquirer for Merchant ABC acquired MasterCard sales Transactions and chargebacks over a six-month period as follows:

| Month | January | February | March | April | May | June | July |
|-----------------------|---------|----------|--------|--------|--------|--------|--------|
| Sales Transactions | 95,665 | 95,460 | 95,561 | 95,867 | 95,255 | 95,889 | 95,758 |
| Chargebacks | 1,050 | 1,467 | 1,635 | 1,556 | 1,495 | 1,052 | 985 |
| CTR in basis points | _ | 153 | 171 | 163 | 156 | 110 | 103 |

February and March are the trigger months, as these are two consecutive months where the CTR exceeded 150 basis points. At the end of July, Merchant ABC was no longer an ECM as its CTR was below 150 basis points for two consecutive months. MasterCard calculates assessments and Issuer reimbursements for each of the months March through July.

For example, the assessment for April (using March sales Transactions and April chargeback volumes) is calculated as follows:

- The CTR = April chargebacks/March sales Transactions = 1,556/95,561 = 0.01628 or 163 basis points (rounded)
- The number of chargebacks in excess of the 150 basis points is determined by subtracting 1.5 percent of the March sales Transactions from the number of April chargebacks. 1.5 percent of the March sales Transactions (95,561 x 0.015) is 1,433. 1,556 1,433 = 123 chargebacks
- The Issuer reimbursement for April is $123 \times USD = 25 = USD = 3,075$
- The violation assessment is (USD 3,075 x 163)/100 or 501,225/100 = USD 5.012.25

Using this methodology, the Issuer reimbursement fees and assessments for the Acquirer for Merchant ABC are as follows.

| Month | Issuer Reimbursement | Assessment | Total |
|--------------------------------|-------------------------|---------------|---------------|
| February (first trigger month) | 0 | 0 | 0 |
| March (second trigger month) | USD 5,075.00 | USD 8,678.25 | USD 13,753.25 |
| April | USD 3,075.00 | USD 5,012.25 | USD 8,087.25 |
| May | USD 1,425.00 | USD 2,223.00 | USD 3,648.00 |
| June | 0 | 0 | 0 |
| July | 0 | 0 | 0 |
| Total | USD 9,575.00 | USD 15,913.50 | USD 25,488.50 |

Example: For the month of March, the Acquirer reported Merchant ABC chargeback volume of 1,635 chargebacks totaling USD 12,145. This amount is less than the calculated amount of the Issuer reimbursement plus violation assessment total of USD 13,753.25, as shown above for March. Therefore, MasterCard will assess the Acquirer the lesser chargeback volume amount rather than the greater calculated amount.

8.3.5 Additional Tier 2 ECM Requirements

After a Merchant has been a Tier 1 ECM for six months (whether consecutive or non-consecutive), the Merchant will be deemed a Tier 2 ECM in its seventh month as an ECM.

With respect to a Tier 2 ECM, MasterCard may:

1. Advise the Acquirer with regard to the action plan and other measures that the Acquirer should take or consider taking to reduce the Merchant's CTR; and/or

2. Require the Acquirer to undergo a Fraud Management Program (FMP) Level 3 Customer review, at the Acquirer's expense, as described in Chapter 13 of this manual.

After a Merchant has been an ECM for 12 months (whether consecutive or non-consecutive), the Acquirer will be deemed to be in violation of Rule 5.11.7 of the *MasterCard Rules* manual ("the Illegal or Brand-damaging Transactions Rule"), and in addition to the assessments described in section 8.3.3, is subject to noncompliance assessments of up to USD 50,000 per month after the twelfth month that the Merchant remains an ECM.

8.4 Questionable Merchant Audit Program (QMAP)

The Questionable Merchant Audit Program (QMAP) establishes minimum standards of acceptable Merchant behavior and identifies Merchants that may fail to meet such minimum standards by participating in collusive or otherwise fraudulent or inappropriate activity. The QMAP also permits an Issuer to obtain partial recovery of up to one-half of actual fraud losses resulting from fraudulent Transactions at a Questionable Merchant, based on SAFE reporting. The criteria to identify a Questionable Merchant and the fraud recovery process are described below.

8.4.1 QMAP Definitions

For purposes of the QMAP, the following terms have the meanings set forth below:

Cardholder bust-out account means an account for which all of the following conditions are true:

- 1. The Issuer closed the account prior to the earlier of (i) the Issuer requesting that MasterCard commence an investigation as to whether a Merchant is a Questionable Merchant, or (ii) MasterCard notifying the Issuer that MasterCard has commenced an investigation as to whether a Merchant is a Questionable Merchant; and
- 2. A Transaction arising from use of the account has not been charged back for either an authorization-related chargeback (as set forth in section 3.2 of the *Chargeback Guide*) or fraud-related chargeback (as set forth in section 3.3 of the *Chargeback Guide*) during the 180 days prior to the earlier of (i) the Issuer requesting that MasterCard commence an investigation as to whether a Merchant is a Questionable Merchant, or (ii) MasterCard notifying the Issuer that MasterCard has commenced an investigation as to whether a Merchant is a Questionable Merchant; and
- 3. At least one of the following is true:
 - a. The account in question is "linked" to one or more Cardholder bust-out accounts. As used herein, to be "linked" means that personal, non-public information previously provided by an applicant in connection with the establishment of one or more Cardholder bust-out

- accounts (name, address, telephone number, social security number or other government-issued identification number, authorized user, demand deposit account number, and the like) has been provided by an applicant in connection with the establishment of the subject account; or
- b. The account is linked to one or more Cardholder bust-out accounts used in Transactions with a Merchant that MasterCard identified as a Questionable Merchant in a *Global Security Bulletin*; or
- c. The Cardholder requests that one or more additional persons be designated as an additional Cardholder of the account within a short period of time; or
- d. The Cardholder requests that the credit limit of the account be increased soon after the account is opened; or
- e. The Cardholder makes frequent balance queries or "open-to-buy" queries; or
- f. No payment has been made of charges to the account; or
- g. The Issuer closed the account after a failed payment (dishonored check or the like) of charges to the account.

Case Scope Period means the 180-calendar-day period preceding the date on which MasterCard commences an investigation into the activities of a suspected Questionable Merchant.

Questionable Merchant means a Merchant that satisfies all of the following criteria:

- 1. The Merchant submitted at least USD 50,000 in Transaction volume during the Case Scope Period;
- 2. The Merchant submitted at least five (5) Transactions to one or more Acquirers during the Case Scope Period; and
- 3. At least fifty (50) percent of the Merchant's total Transaction volume involved the use of Cardholder bust-out accounts

OR

At least three (3) of the following four (4) conditions apply to the Merchant's Transaction activity during the Case Scope Period:

- a. The Merchant's fraud-to-sales Transaction ratio was seventy (70) percent or greater.
- b. At least twenty (20) percent of the Merchant's Transactions submitted for authorization were declined by the Issuer or received a response of "01—Refer to issuer" during the Case Scope Period.
- c. The Merchant has been submitting Transactions for fewer than six (6) months.
- d. The Merchant's total number or total dollar amount of fraudulent Transactions, authorization declines, and Issuer referrals was greater

than the Merchant's total number or total dollar amount of approved Transactions.

MasterCard has sole discretion, based on information from any source, to determine whether a Merchant meeting these criteria is a Questionable Merchant.

8.4.2 MasterCard Commencement of an Investigation

MasterCard, at its sole discretion, may commence a QMAP investigation of a Merchant. During the pendency of such an investigation, MasterCard may identify the Merchant being investigated in MATCH using MATCH reason code 00 (Questionable Merchant/Under Investigation).

If an Issuer has reason to believe that a Merchant may be a Questionable Merchant, the Issuer must promptly notify MasterCard via e-mail message at qmap@mastercard.com. Transactions that occurred during the Case Scope Period may qualify as eligible for recovery under the QMAP.

In the notification, the Issuer must provide the basis for the Issuer's reason to believe that the Merchant may be a Questionable Merchant, and must provide all of the following information:

- 1. Issuer name and Member ID;
- 2. Acquirer name and Member ID;
- 3. Merchant name and address (city, state or province, and country);
- 4. Total number of Transactions conducted at the Questionable Merchant by the Issuer's Cardholders;
- 5. Total dollar volume of Issuer losses at the Questionable Merchant;
- 6. Percentage of Transactions attributed to Cardholder bust-out accounts, if applicable; and
- 7. Details of each Issuer-confirmed fraudulent Transaction, including Cardholder account number, Transaction date and time, and Transaction amount in U.S. dollars.

If an Acquirer becomes aware that it is acquiring for a Questionable Merchant, the Acquirer must notify MasterCard promptly via e-mail message at qmap@mastercard.com.

8.4.4 MasterCard Notification to Acquirers

Following the MasterCard evaluation of Transactions reported to SAFE by Issuers, MasterCard may notify any Acquirer of the investigated Merchant that such Merchant has initially met the criteria of a Questionable Merchant. Such notification will be sent via e-mail message to the Security Contact then listed for the Acquirer in the Member Information—MasterCard application available on MasterCard Connect.

Within 15 calendar days from the date of the MasterCard notification, the Acquirer may contest the MasterCard preliminary finding that a Merchant is a Questionable Merchant. In such an event, the Acquirer shall provide to MasterCard any supplemental information necessary to review the preliminary finding.

MasterCard has a right, but not an obligation, to audit an Acquirer's records for the purpose of attempting to determine whether a Merchant is a Questionable Merchant. An Acquirer must provide MasterCard such other or additional information as MasterCard may request to assist in the investigation.

The Acquirer must submit all documentation and records via e-mail message to qmap@mastercard.com.

8.4.5 Merchant Termination

If the Acquirer determines that the Merchant under investigation (or any other of its Merchants) is a Questionable Merchant and terminates the Merchant Agreement for that reason, the Acquirer must add the Merchant to MATCH using MATCH reason code 08 (MasterCard Questionable Merchant Audit Program) within five (5) calendar days of the decision to terminate the Merchant.

8.4.6 MasterCard Determination

MasterCard will determine if a Merchant is a Questionable Merchant.

If MasterCard determines that the Merchant **is not** a Questionable Merchant, MasterCard will so notify each Issuer and Acquirer that provided information pertinent to the investigation. Such notice will be provided via e-mail message to the Security Contact listed for the Customer in the Member Information—MasterCard application available on MasterCard Connect. In addition, MasterCard will delete the MATCH listing of the Merchant for MATCH reason code 00.

If MasterCard determines that the Merchant **is** a Questionable Merchant, MasterCard will:

- 1. Notify the Merchant's Acquirer, and
- 2. Identify the Merchant as a Questionable Merchant in a *Global Security Bulletin* for each of twelve (12) consecutive months, and
- 3. Modify the Merchant's MATCH record to reflect a reason code change from 00 (Under Investigation) to 20 (MasterCard Questionable Merchant Audit Program).

If the Acquirer terminates the Merchant Agreement because MasterCard determines the Merchant to be a Questionable Merchant, the Acquirer is required to identify the Merchant in MATCH with reason code 08 (MasterCard Questionable Merchant Audit Program).

8.4.7 Chargeback Responsibility

When MasterCard identifies a Questionable Merchant in a *Global Security Bulletin*, MasterCard will also specify a chargeback period ("start" and "end" dates) of at least one year. If an Acquirer continues to acquire from a Merchant after MasterCard declares the Merchant a Questionable Merchant, the Acquirer is responsible for valid chargebacks using message reason code 4849—Questionable Merchant Activity for a period of one year following publication of the *Global Security Bulletin* initially listing the Questionable Merchant; provided, MasterCard may extend the chargeback responsibility period. An Issuer has 120 days following the publication date of a *Global Security Bulletin* identifying a Questionable Merchant to charge back fraudulent Transactions that occur during the specified chargeback period to the Acquirer using reason code 4849—Questionable Merchant Activity.

8.4.8 Fraud Recovery

Following the identification of a Questionable Merchant in a *Global Security Bulletin*, and using data reported to SAFE, MasterCard will notify any Issuer deemed by MasterCard to be eligible for partial recovery of loss due to fraudulent Transactions at a Questionable Merchant. The notice will disclose the amount of the recovery, less an administrative fee described in section 8.4.9, and the date that the amount will be credited to the Issuer's MCBS account.

An Issuer is not eligible to receive partial recovery of any Transaction:

- 1. For a Merchant not listed in the Global Security Bulletin, or
- 2. Taking place after the Global Security Bulletin's date of publication, or
- 3. Not reported to MasterCard via SAFE as described in section 8.4.3 of this manual, or
- 4. For which the Issuer received recovery via any existing remedy in the MasterCard system, including chargeback, recovery process, or the Issuer's own collection process.

MasterCard reserves the right to request additional information as a condition of determining whether a Transaction satisfactorily meets the eligibility requirements for Issuer partial recovery. In addition, MasterCard will not pay claims in excess of the amount collected from the Acquirer(s) for that purpose.

MasterCard will debit the fraud recovery amount from the Acquirer account and credit the Issuer account (less any administrative fee). MasterCard will process Issuer fraud recoveries via MCBS.

8.4.9 QMAP Fees

MasterCard may charge each Issuer an administrative fee equal to 10 percent of the Issuer recovery amount from a Questionable Merchant determination.

MasterCard Fraud Control Programs 8.4 Questionable Merchant Audit Program (QMAP)

MasterCard may charge an Acquirer an audit fee not to exceed USD 2,500 for each identification of a Merchant as a Questionable Merchant.

Chapter 9 MasterCard Registration Program

This chapter may be of particular interest to Customer personnel responsible for registering Merchants, Sub-merchants, and other entities with MasterCard. The MasterCard Registration Program (MRP) formerly was referred to as the Merchant Registration Program.

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9.1 MasterCard Registration Program Overview

MasterCard requires Customers to register the following Merchant types, including Sub-merchants, and other entities using the MasterCard Registration Program (MRP) system, available via MasterCard Connect™:

- Telecom Merchants—MCCs 4814, 4816, and 5967 (refer to section 9.4.1)
- Non-face-to-face adult content and services Merchants—MCCs 5967, 7273, and 7841 (refer to section 9.4.2)
- Non–face-to-face gambling Merchants—MCCs 7995 and 9754 (refer to section 9.4.3)
- Non-face-to-face pharmaceutical Merchants—MCC 5122 and MCC 5912 (refer to section 9.4.4)
- Non-face-to-face tobacco product Merchants—MCC 5993 (refer to section 9.4.4)
- State lottery Merchants (U.S. Region only)—MCC 9399 (refer to section 9.4.5)
- Skill games Merchants (U.S. Region only)—MCC 7994 (refer to section 9.4.6) For a skill games Merchant, the Customer must submit the registration request to MasterCard by sending an e-mail to Internet_Gambling@mastercard.com.
- Merchants reported under the Excessive Chargeback Program (refer to section 8.3)

During registration, the Acquirer must provide each Web site URL from which Transactions as described in this section may arise, whether the Web site is that of a Merchant, a Payment Facilitator's Sub-merchant, or other entity. With respect to Transactions submitted by a Staged Digital Wallet Operator (DWO), each individual Web site URL at which Transactions as described in this section may be effected must be individually registered.

If a Customer acquires Transactions for any of the Merchant types listed herein without first registering the Merchant or Sub-merchant in accordance with the Standards described in this section, MasterCard may assess the Customer as set forth in section 9.2.1 of this manual. In addition, the Acquirer must ensure that the violation is corrected promptly.

Refer to the *MasterCard Registration Program User Manual* for directions for completing registration tasks available in the MRP system.

9.2 General Registration Requirements

The Customer must provide all of the information requested for each Merchant, Sub-merchant, or other entity required to be registered through the MasterCard Registration Program system. For each such entity, the requested information includes:

- The name, doing business as (DBA) name, and address
- The central access phone number, customer service phone number, or e-mail address
- The name(s), address(es), and tax identification number(s) (or other relevant national identification number) of the principal owner(s)
- A detailed description of the service(s), product(s), or both that the entity will offer to Cardholders
- A description of payment processing procedures, Cardholder disclosures, and other practices including, but not limited to:
 - Data solicited from the Cardholder
 - Authorization process (including floor limits)
 - Customer service return policies for card transactions
 - Disclosure made by the Merchant before soliciting payment information (including currency conversion at the Point of Interaction [POI])
 - Data storage and security practices
- The identity of any previous business relationship(s) involving the principal owner(s) of the entity
- A certification, by the officer of the Customer with direct responsibility to ensure compliance of the registered entity with the Standards, stating that after conducting a diligent and good faith investigation, the Customer believes that the information contained in the registration request is true and accurate

Only MasterCard can modify or delete information about a registered entity. Customers must submit any modification(s) about a registered entity in writing to MasterCard, with an explanation for the request. MasterCard reserves the right to deny a modification request.

Customers should send any additional requested information and modification requests to the vice president of Merchant Fraud Control at the address provided in Appendix C.

For requirements specific to Merchants that are required to implement the MasterCard SDP Program, refer to section 10.3 of this manual.

9.2.1 Merchant Registration Fees and Noncompliance Assessments

MasterCard assesses the Acquirer an annual USD 500 registration fee for each Merchant and Sub-merchant under the categories listed in section 9.1, except telecom Merchants and Merchants reported under the Excessive Chargeback Program. MasterCard will collect the fee from the Acquirer via the MasterCard Consolidated Billing System (MCBS).

MasterCard may assess a Customer that acquires Transactions for any of these Merchant or Sub-merchant types without first registering the Merchant in accordance with the requirements of the MRP. A violation will result in an assessment of up to USD 10,000.

If, after notice by MasterCard of the Acquirer's failure to register a Merchant or Sub-merchant, that Acquirer fails to register its Merchant within 10 days of notice, the Acquirer will be subject to additional assessments of USD 5,000 per month for up to three months, and USD 25,000 per month thereafter, until the Acquirer satisfies the requirement. In addition, the Acquirer must ensure that the violation is corrected promptly. Such Merchant or Sub-merchant may also be deemed by MasterCard, in its sole discretion, to be in violation of Rule 5.11.7 of the *MasterCard Rules* manual ("the Illegal or Brand-damaging Transactions Rule").

9.3 General Monitoring Requirements

The monitoring requirements described in this section apply to Customers that acquire telecom Transactions, non-face-to-face adult content and services Transactions, non-face-to-face gambling Transactions, non-face-to-face pharmaceutical and tobacco product Transactions, state lottery Transactions (U.S. Region only), skill games Transactions (U.S. Region only), or Transactions from Merchants reported under the Excessive Chargeback Program:

- The Acquirer must ensure that each such Merchant implements real-time and batch procedures to monitor continually all of the following:
 - Simultaneous multiple Transactions using the same Account number
 - Consecutive or excessive attempts using the same Account number

When attempted fraud is evident, a Merchant should implement temporary bank identification number (BIN) blocking as a fraud deterrent.

- The Acquirer must ensure that each such Merchant complies with the fraud control Standards in Chapter 6 of this manual and maintains a total chargeback-to-interchange sales volume ratio below the Excessive Chargeback Program thresholds. For information about the Excessive Chargeback Program, refer to section 8.3 of this manual.
- On a quarterly basis, the Acquirer must submit monthly Transaction data to MasterCard (via the MRP) for the Acquirer's registered Merchants. This data contains sales (counts and amounts), chargebacks (counts and amounts), and credits (counts and amounts) by calendar month. If preferred, the Acquirer may submit this data on a monthly basis.

9.4 Additional Requirements for Specific Merchant Categories

Customers should review thoroughly these additional requirements for specific Merchant categories.

9.4.1 Telecom Merchants and Transactions

Before acquiring MasterCard Transactions reflecting any of the following telecom services, an Acquirer first must register the Merchant or Sub-merchant with MasterCard as described in section 9.2:

- MCC 4814, TCC T—Telecommunication Services, including, but not limited to, prepaid phone services and recurring phone services. This type of Transaction includes the use of a Card in both Card-reading and non–Card-reading environments. It may include prepaid and recurring phone service Transactions or other telecommunications services.
- MCC 4816, TCC T—Computer Network/Information Services. This MCC identifies providers of computer network, information services, and other online services such as e-mail or Internet access.
- MCC 5967, TCC T—Direct Marketing—Inbound Telemarketing Merchants. This MCC includes providers of information services offered over the phone (audiotext) or Internet (videotext). An audiotext call is a pay-per-call service whereby a Merchant provides audio information or entertainment to a Cardholder by phone. The Cardholder is charged either per call or per time interval, in addition to or at a rate more than the charge paid for the transmission of the call.

9.4.2 Non-face-to-face Adult Content and Services Merchants

A non-face-to-face adult content and services Transaction occurs when a consumer uses an Account in a Card-not-present environment to purchase adult content or services, which may include but is not limited to subscription Web site access; streaming video; videotape and DVD rentals and sales; and computer and video personal introduction, dating, and matchmaking services.

An Acquirer must identify all non-face-to-face adult content and services Transactions using one of the following MCC and TCC combinations, as appropriate:

- MCC 5967 (Direct Marketing—Inbound Telemarketing Merchants) and TCC T;
- MCC 7273 (Dating and Escort Services) and TCC T; or
- MCC 7841 (Video Entertainment Rental Stores) and TCC T.

Before an Acquirer may process non-face-to-face adult content and services Transactions from a Merchant or Sub-merchant, it must register the Merchant with MasterCard as described in section 9.2 of this manual.

9.4.3 Non-face-to-face Gambling Merchants

A non-face-to-face gambling Transaction occurs in a Card-not-present environment when a consumer uses an Account to place a wager or purchase chips or other value usable for gambling provided by a wagering or betting establishment as defined by MCC 7995 (Gambling Transactions) or MCC 9754 (Gambling—Horse Racing, Dog Racing, Non-Sports Intrastate Internet Gambling).

Before acquiring Transactions reflecting non–face-to-face gambling, an Acquirer first must register the Merchant or Sub-merchant with MasterCard as described in section 9.2.

An Acquirer must identify all non–face-to-face gambling Transactions using MCC 7995 and TCC U unless the Acquirer has also registered the Merchant or Sub-merchant as described below, in which case the Acquirer may use MCC 9754 instead of MCC 7995.

In addition to the requirement to register the Merchant or Sub-merchant as described in section 9.2, a U.S. Region Acquirer may register a Merchant or Sub-merchant under this section if the Merchant or Sub-merchant is located in the U.S. Region and engaged in legal gambling activity involving horse racing, dog racing, or non-sports intrastate Internet gambling. To register such a Merchant or Sub-merchant, the Acquirer must demonstrate that an adequate due diligence review was conducted by providing the following items to MasterCard as part of the registration process (herein, all references to a Merchant also apply to a Sub-merchant):

- 1. **Evidence of legal authority.** The Acquirer must provide:
 - a copy of the Merchant's license (or similar document), if any, issued by the appropriate governmental (for example, state or tribal) authority, that expressly authorizes the Merchant to engage in the gambling activity; and
 - any law applicable to the Merchant that permits the gambling activity.
- 2. **Legal opinion.** The Acquirer must obtain a reasoned legal opinion, addressed to the Acquirer, from a private sector U.S. lawyer or U.S. law firm. The legal opinion must:

- identify all relevant gambling, gaming, and similar laws applicable to the Merchant;
- identify all relevant gambling, gaming, and similar laws applicable to Cardholders permitted by the Merchant to transact with the Merchant; and
- demonstrate that the Merchant's and Cardholders' gambling and payment activities comply at all times with any laws identified above.

The Acquirer must provide MasterCard with a copy of such legal opinion. The legal opinion must be acceptable to MasterCard in its sole discretion.

- 3. **Effective controls.** The Acquirer must provide certification from a qualified independent third party demonstrating that the Merchant's systems for operating its gambling business:
 - include effective age and location verification; and
 - are reasonably designed to ensure that the Merchant's Internet gambling business will remain within legal limits (including in connection with interstate Transactions).

The certification must include all screenshots relevant to the certification (for example, age verification process). Certifications from interested parties (such as the Acquirer, Independent Sales Organizations [ISOs], the Merchant, and so on) are not acceptable substitutes for the independent third-party certification.

- 4. **Notification of changes.** The Acquirer must certify that it will notify MasterCard of any changes to the information that it has provided to MasterCard, including changes in applicable law, Merchant activities, and Merchant systems. Such notification shall include any revisions or additions to the information provided to MasterCard (for example, legal opinion, third-party certification) to make the information current and complete. Such notification is required within ten (10) days of any such change.
- 5. **Acceptance of responsibilities.** The Acquirer must specifically affirm that it will not submit restricted Transactions from the Merchant for authorization. The Acquirer must also specifically reaffirm its indemnification to MasterCard in connection with the Acquirer's or Merchant's activities. Such reaffirmation shall specifically indicate that the Acquirer acknowledges and agrees that the Transactions constitute the Acquirer's Activity and are subject to Rule 2.3 of the *MasterCard Rules* manual, regardless of the Acquirer's compliance with the MasterCard *Internet Gambling Policy* or these requirements.

9.4.4 Pharmaceutical and Tobacco Product Merchants

A non-face-to-face pharmaceutical Transaction occurs in a Card-not-present environment when a consumer uses an Account to purchase prescription medicines from a Merchant whose primary business is non-face-to-face selling of prescription drugs.

A non-face-to-face tobacco product Transaction occurs in a Card-not-present environment when a consumer uses an Account to purchase tobacco products (including, but not limited to cigarettes, cigars, or loose tobacco) from a Merchant whose primary business is non-face-to-face selling of tobacco products.

Before acquiring Transactions as described below, an Acquirer first must register the Merchant with MasterCard as described in section 9.2:

- Non–face-to-face sale of pharmaceuticals (MCC 5122 and MCC 5912)
- Non–face-to-face sale of tobacco products (MCC 5993)

An Acquirer must identify all non-face-to-face pharmaceutical Transactions using MCC 5122 (Drugs, Drug Proprietors, and Druggists Sundries) and TCC T for wholesale purchases or MCC 5912 (Drug Stores, Pharmacies) and TCC T for retail purchases. An Acquirer must identify all non-face-to-face tobacco product Transactions using MCC 5993 (Cigar Stores and Stands) and TCC T.

For clarity, the term acquiring, as used in this section, is "acquiring Activity" as such term is used in Rule 2.3 of the *MasterCard Rules* manual.

At the time of registration of a Merchant or Sub-merchant in accordance with this section, the Acquirer of such Merchant or Sub-merchant must have verified that the Merchant's or Sub-merchant's activity complies fully with all laws applicable to MasterCard, the Merchant or Sub-merchant, the Issuer, the Acquirer, and any prospective customer of the Merchant or Sub-merchant. Such verification may include, but is not limited to, a written opinion from independent, reputable, and qualified legal counsel or accreditation by a recognized third party.

By registering a Merchant or Sub-merchant as required by this section, the Acquirer represents and warrants that the Acquirer has verified compliance with applicable law as described above. The Acquirer must maintain such verification for so long as it acquires Transactions from the Merchant or Sub-merchant that is subject to the aforedescribed registration requirement and must, no less frequently than every 12 months, confirm continued compliance with applicable law concerning the business of the registered Merchant or Sub-merchant. The Acquirer must furnish MasterCard with a copy of such documentation promptly upon request.

9.4.5 State Lottery Merchants (U.S. Region Only)

A U.S. Region Acquirer may use MCC 9399 (Government Services—not elsewhere classified) to identify Transactions arising from a U.S. Region Merchant or Sub-merchant and involving the purchase of a state lottery ticket if the Acquirer has first registered the Merchant or Sub-merchant with MasterCard as described in section 9.2 and this section 9.4.5.

To register a Merchant or Sub-merchant, the Acquirer must demonstrate that an adequate due diligence review was conducted by providing the following items to MasterCard as part of the registration process (herein, all references to a Merchant also apply to a Sub-merchant):

- 1. **Evidence of legal authority.** The Acquirer must provide:
 - a copy of the Merchant's license (or similar document), if any, issued by the appropriate governmental (for example, state or tribal) authority, that expressly authorizes the Merchant to engage in the gambling activity; and
 - any law applicable to the Merchant that permits state lottery ticket sales.
- 2. **Legal opinion.** The Acquirer must obtain a reasoned legal opinion, addressed to the Acquirer, from a private sector U.S. lawyer or U.S. law firm. The legal opinion must:
 - identify all relevant state lottery and other laws applicable to the Merchant;
 - identify all relevant state lottery and other laws applicable to Cardholders permitted by the Merchant to transact with the Merchant; and
 - demonstrate that the Merchant's and Cardholders' state lottery and payment activities comply at all times with any laws identified above.

The Acquirer must provide MasterCard with a copy of such legal opinion. The legal opinion must be acceptable to MasterCard in its sole discretion.

- 3. **Effective controls.** The Acquirer must provide certification from a qualified independent third party demonstrating that the Merchant's systems for operating its state lottery business:
 - include effective age and location verification; and
 - are reasonably designed to ensure that the Merchant's state lottery business will remain within legal limits (including in connection with interstate Transactions).

The certification must include all screenshots relevant to the certification (for example, age verification process). Certifications from interested parties (such as the Acquirer, ISOs, the Merchant, and so on) are not acceptable substitutes for the independent third-party certification.

- 4. **Notification of changes.** The Acquirer must certify that it will notify MasterCard of any changes to the information that it has provided to MasterCard, including changes in applicable law, Merchant activities, and Merchant systems. Such notification shall include any revisions or additions to the information provided to MasterCard (for example, legal opinion, third-party certification) to make the information current and complete. Such notification is required within ten (10) days of any such change.
- 5. **Acceptance of responsibilities.** The Acquirer must specifically affirm that it will not submit restricted Transactions from the Merchant for authorization. The Acquirer must also specifically reaffirm its indemnification to MasterCard in connection with the Acquirer's or Merchant's activities. Such reaffirmation shall specifically indicate that the Acquirer acknowledges and agrees that the Transactions constitute the Acquirer's Activity and are subject to Rule 2.3 of the *MasterCard Rules* manual, regardless of the Acquirer's compliance with MasterCard rules, policies, and procedures or these requirements.

9.4.6 Skill Games Merchants (U.S. Region Only)

A U.S. Region Acquirer may use MCC 7994 (Video Game Arcades/Establishments) to identify Transactions arising from a U.S. Region Merchant or Sub-merchant conducting certain games (herein, "skill games") if the Acquirer has first registered the Merchant or Sub-merchant with MasterCard as described in section 9.2 and this section 9.4.6. For purposes of this section, "skill games" means:

- game participants pay a game entry fee;
- the outcome of the game is determined by the skill of the participants rather than by chance;
- the winner of a game receives cash and/or a prize of monetary value; and
- no non-participant in the game pays or receives cash and/or a prize of monetary value in relation to the game.

To register a Merchant or Sub-merchant, the Acquirer must demonstrate that an adequate due diligence review was conducted by providing the following items to MasterCard as part of the registration process (herein, all references to a Merchant also apply to a Sub-merchant):

- 1. **Evidence of legal authority.** The Acquirer must provide:
 - a copy of the Merchant's license (or similar document), if any, issued by the appropriate governmental (for example, state or tribal) authority, that expressly authorizes the Merchant to conduct the particular type of skill game(s) for which it wishes to accept Cards as payment for entry fees; and
 - any law applicable to the Merchant that permits the conduct of skill games.
- 2. **Legal opinion.** The Acquirer must obtain a reasoned legal opinion, addressed to the Acquirer, from a private sector U.S. lawyer or U.S. law firm. The legal opinion must:
 - identify all relevant laws that address the conduct of skill games (e.g., anti-gambling laws that provide an exemption for skill games) and other laws applicable to the Merchant's skill games activities;
 - identify all relevant laws that address the participation in skill games and other laws applicable to Cardholders permitted by the Merchant to participate in skill games with the Merchant; and
 - demonstrate that the Merchant's and Cardholders' skill games and payment activities comply at all times with any laws identified above.

The Acquirer must provide MasterCard with a copy of such legal opinion. The legal opinion must be acceptable to MasterCard in its sole discretion.

3. **Effective controls.** The Acquirer must provide certification from a qualified independent third party demonstrating that the Merchant's systems for operating its skill games business:

- include effective age and location verification, as applicable; and
- are reasonably designed to ensure that the Merchant's skill games business will remain within legal limits (including in connection with interstate Transactions).

The certification must include all screenshots relevant to the certification (for example, age verification process). Certifications from interested parties (such as the Acquirer, ISOs, the Merchant, and so on) are not acceptable substitutes for the independent third-party certification.

- 4. **Notification of changes.** The Acquirer must certify that it will notify MasterCard of any changes to the information that it has provided to MasterCard, including changes in applicable law, Merchant activities, and Merchant systems. Such notification shall include any revisions or additions to the information provided to MasterCard (for example, legal opinion, third-party certification) to make the information current and complete. Such notification is required within ten (10) days of any such change.
- 5. **Acceptance of responsibilities.** The Acquirer must specifically affirm that it will not submit Restricted Transactions (as defined in the *Internet Gambling Policy*) from the Merchant for authorization. The Acquirer must also specifically reaffirm its indemnification to MasterCard in connection with the Acquirer's or Merchant's activities. Such reaffirmation shall specifically indicate that the Acquirer acknowledges and agrees that the Transactions constitute the Acquirer's Activity and are subject to Rule 2.3 of the *MasterCard Rules* manual, regardless of the Acquirer's compliance with MasterCard rules, policies, and procedures or these requirements.

Chapter 10 Account Data Protection Standards and Programs

This chapter may be of particular interest to Customer personnel responsible for protecting Account, Cardholder, and Transaction data; and to Customers that have experienced or wish to protect themselves against account data compromise events.

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10.1 Account Data Protection Standards

PCI Security Standards are technical and operational requirements established by the Payment Card Industry Security Standards Council (PCI SSC) to protect Account data. MasterCard requires that all Customers that store, process, or transmit Card, Cardholder, or Transaction data and all Customer agents that store, process, or transmit Card, Cardholder, or Transaction data on the Customer's behalf adhere to the most current Payment Card Industry PIN Transmission Security Program (PCI PTS) and *Payment Card Industry Data Security Standard* (PCI DSS). Customers and their agents also must ensure that:

- a Point-of-Sale (POS) Terminal or other device at the Point of Interaction (POI) does not display, replicate, or store any Card-read data except primary account number (PAN), expiration date, service code, or Cardholder name; and
- before discarding any media containing Card, Cardholder, or Transaction data, including such data as PANs, personal identification numbers (PINs), credit limits, and account balances, the Customer or its agent must render the data unreadable; and
- access to Card, Cardholder, or Transaction data stored in computers, terminals, and PCs is limited and controlled by establishing data protection procedures that include, but are not limited to, a password system for Computer Remote Terminal (CRT) access, control over dial-up lines, and any other means of access.

10.2 Account Data Compromise Events

NOTE

This section 10.2 applies to MasterCard and Maestro Transactions, unless otherwise indicated.

Definitions

As used in this section 10.2, the following terms shall have the meaning set forth below:

Account Data Compromise Event or ADC Event An occurrence that results, directly or indirectly, in the unauthorized access to or disclosure of Account data.

Agent

Any entity that stores, processes, or has access to Account data by virtue of its contractual or other relationship, direct or indirect, with a Customer. For the avoidance of doubt, Agents include, but are not limited to, Merchants, Third Party Processors (TPPs) and Data Storage Entities (DSEs) (regardless of whether the TPP or DSE is registered with MasterCard).

Customer This term appears in the Definitions section at the

end of the manual. For the avoidance of doubt, for purposes of this section 10.2, any entity that MasterCard licenses to issue a MasterCard and/or Maestro Card(s) and/or acquire a MasterCard and/or Maestro Transaction(s) shall be deemed a Customer.

Potential Account Data Compromise Event or Potential ADC Event

An occurrence that could result, directly or indirectly, in the unauthorized access to or disclosure of Account

Sensitive Card Authentication Data

This term has the meaning set forth in the *Payment Card Industry Data Security Standard*, and includes, by way of example and not limitation, the full contents of a Card's magnetic stripe or the equivalent on a chip, Card validation code 2 (CVC 2) data, and PIN or PIN block data.

Standards

This term appears in the Definitions section at the end of the manual.

10.2.1 Policy Concerning Account Data Compromise Events and Potential Account Data Compromise Events

MasterCard operates a payment solutions system for all of its Customers. Each Customer benefits from, and depends upon, the integrity of that system. ADC Events and Potential ADC Events threaten the integrity of the MasterCard system and undermine the confidence of Merchants, Customers, Cardholders, and the public at large in the security and viability of the system. Each Customer therefore acknowledges that MasterCard has a compelling interest in adopting, interpreting, and enforcing its Standards to protect against and respond to ADC Events and Potential ADC Events.

Given the abundance and sophistication of criminals, ADC Events and Potential ADC Events are risks inherent in operating and participating in any system that utilizes payment card account data for financial or non-financial transactions. MasterCard Standards are designed to place responsibility for ADC Events and Potential ADC Events on the Customer that is in the best position to guard against and respond to such risk. That Customer is generally the Customer whose network, system, or environment was compromised or was vulnerable to compromise or that has a direct or indirect relationship with an Agent whose network, system, or environment was compromised or was vulnerable to compromise. In the view of MasterCard, that Customer is in the best position to safeguard its systems, to require and monitor the safeguarding of its Agents' systems, and to insure against, and respond to, ADC Events and Potential ADC Events.

MasterCard requires that each Customer apply the utmost diligence and forthrightness in protecting against and responding to any ADC Event or Potential ADC Event. Each Customer acknowledges and agrees that MasterCard has both the right and need to obtain full disclosure (as determined by MasterCard) concerning the causes and effects of an ADC Event or Potential ADC Event as well as the authority to impose assessments, recover costs, and administer compensation, if appropriate, to Customers that have incurred costs, expenses, losses, and/or other liabilities in connection with ADC Events and Potential ADC Events.

Except as otherwise expressly provided for in the Standards, MasterCard determinations with respect to the occurrence of and responsibility for ADC Events or Potential ADC Events are conclusive and are not subject to appeal or review within MasterCard.

Any Customer that is uncertain with respect to rights and obligations relating to or arising in connection with the Account Data Protection Standards and Programs set forth in this Chapter 10 should request advice from MasterCard Fraud Investigations.

Notwithstanding the generality of the foregoing, the relationship of network, system, and environment configurations with other networks, systems, and environments will often vary, and each ADC Event and Potential ADC Event tends to have its own particular set of circumstances. MasterCard has the sole authority to interpret and enforce the Standards, including those set forth in this chapter. Consistent with the foregoing and pursuant to the definitions set forth in section 10.2 above, MasterCard may determine, as a threshold matter, whether a given set of circumstances constitutes a single ADC Event or multiple ADC Events. In this regard, and by way of example, where a Customer or Merchant connects to, utilizes, accesses, or participates in a common network, system, or environment with one or more other Customers, Merchants, Service Providers, or third parties, a breach of the common network, system, or environment that results, directly or indirectly, in the compromise of local networks, systems, or environments connected thereto may be deemed to constitute a single ADC Event.

10.2.2 Responsibilities in Connection with ADC Events and Potential ADC Events

The Customer whose system or environment, or whose Agent's system or environment was compromised or vulnerable to compromise (at the time that the ADC Event or Potential ADC Event occurred) is fully responsible for resolving all outstanding issues and liabilities to the satisfaction of MasterCard, notwithstanding any subsequent change in the Customer's relationship with any such Agent after the ADC Event or Potential ADC Event occurred. In the event of any dispute, MasterCard will determine the responsible Customer(s).

Should a Customer, in the judgment of MasterCard, fail to fully cooperate with the MasterCard investigation of an ADC Event or Potential ADC Event, MasterCard (i) may infer that information sought by MasterCard, but not obtained as a result of the failure to cooperate, would be unfavorable to that Customer and (ii) may act upon that adverse inference in the application of the Standards. By way of example and not limitation, a failure to cooperate can result from a failure to provide requested information; a failure to cooperate with MasterCard investigation guidelines, procedures, practices and the like; or a failure to ensure that MasterCard has reasonably unfettered access to the forensic examiner.

A Customer may not, by refusing to cooperate with the MasterCard investigation, avoid a determination that there was an ADC Event. Should a Customer fail without good cause to comply with its obligations under this section 10.2 or to respond fully and in a timely fashion to a request for information to which MasterCard is entitled under this section 10.2, MasterCard may draw an adverse inference that information to which MasterCard is entitled, but that was not timely obtained as a result of the Customer's noncompliance, would have supported or, where appropriate, confirmed a determination that there was an ADC Event.

Before drawing such an adverse inference, MasterCard will notify the Customer of its noncompliance and give the Customer an opportunity to show good cause, if any, for its noncompliance. The drawing of an adverse inference is not exclusive of other remedies that may be invoked for a Customer's noncompliance.

The following provisions set forth requirements and procedures to which each Customer and its Agent(s) must adhere upon becoming aware of an ADC Event or Potential ADC Event.

10.2.2.1 Time-Specific Procedures for ADC Events and Potential ADC Events

A Customer is deemed to be aware of an ADC Event or Potential ADC Event when the Customer or the Customer's Agent first becomes aware of an ADC Event or a Potential ADC Event. A Customer or its Agent is deemed to be aware of an ADC Event or Potential ADC Event under circumstances that include, but are not limited to, any of the following:

- the Customer or its Agent is informed, through any source, of the installation or existence of any malware in any of its systems or environments, or any system or environment of one of its Agents, no matter where such malware is located or how it was introduced;
- the Customer or its Agent receives notification from MasterCard or any other source that the Customer or its Agent(s) has experienced an ADC Event or a Potential ADC Event; or

 the Customer or its Agent discovers or, in the exercise of reasonable diligence, should have discovered a security breach or unauthorized penetration of its own system or environment or the system or environment of its Agent(s).

A Customer must notify MasterCard immediately when the Customer becomes aware of an ADC Event or Potential ADC Event in or affecting any system or environment of the Customer or its Agent. In addition, a Customer must, by contract, ensure that its Agent notifies MasterCard immediately when the Agent becomes aware of an ADC Event or Potential ADC Event in or affecting any system or environment of the Customer or the Agent.

When a Customer or its Agent becomes aware of an ADC Event or Potential ADC Event either in any of its own systems or environments or in the systems or environments of its Agent(s), the Customer must take (or cause the Agent to take) the following actions, unless otherwise directed in writing by MasterCard.

- Immediately commence a thorough investigation into the ADC Event or Potential ADC Event.
- Immediately, and no later than within twenty-four (24) hours, identify, contain, and mitigate the ADC Event or Potential ADC Event, secure Account data and preserve all information, in all media, concerning the ADC Event or Potential ADC Event, including:
 - 1. preserve and safeguard all potential evidence pertinent to a forensic examination of an ADC Event or Potential ADC Event;
 - 2. isolate compromised systems and media from the network;
 - 3. preserve all Intrusion Detection Systems, Intrusion Prevention System logs, all firewall, Web, database, and events logs;
 - 4. document all incident response actions; and
 - 5. refrain from restarting or rebooting any compromised or potentially compromised system or taking equivalent or other action that would have the effect of eliminating or destroying information that could potentially provide evidence of an ADC Event or Potential ADC Event.
- Within twenty-four (24) hours, and on an ongoing basis thereafter, submit to MasterCard all known or suspected facts concerning the ADC Event or Potential ADC Event, including, by way of example and not limitation, known or suspected facts as to the cause and source of the ADC Event or Potential ADC Event.
- Within twenty-four (24) hours and continuing throughout the investigation and thereafter, provide to MasterCard, in the required format, all PANs and expiration dates associated with Account data that were actually or potentially accessed or disclosed in connection with the ADC Event or Potential ADC Event and any additional information requested by MasterCard. As used herein, the obligation to obtain and provide PANs to MasterCard applies to any MasterCard or Maestro Account number in a bank identification number (BIN)/Issuer identification number (IIN) range assigned by MasterCard. This obligation applies regardless of how or

- why such PANs were received, processed, or stored, including, by way of example and not limitation, in connection with or relating to a credit, debit (signature- or PIN-based) proprietary, or any other kind of payment Transaction, incentive, or reward program.
- Within seventy-two (72) hours, engage the services of a PCI SSC Forensic Investigator (PFI) to conduct an independent forensic investigation to assess the cause, scope, magnitude, duration, and effects of the ADC Event or Potential ADC Event. The PFI engaged to conduct the investigation must not have provided the last PCI compliance report concerning the system or environment to be examined. Prior to the commencement of such PFI's investigation, the Customer must notify MasterCard of the proposed scope and nature of the investigation and obtain preliminary approval of such proposal by MasterCard or, if such preliminary approval is not obtained, of a modified proposal acceptable to MasterCard. MasterCard and the responsible Customer(s) may agree that a PFI's investigation of, investigation findings, and recommendations concerning fewer than all of the Merchants within the scope of the ADC Event or Potential ADC Event will be deemed to be representative of and used for purposes of the application of the Standards as the investigation findings and recommendations by the PFI with respect to all of the Merchants within the scope of the ADC Event or Potential ADC Event.
- Within two (2) business days from the date on which the PFI was engaged, identify to MasterCard the engaged PFI and confirm that such PFI has commenced its investigation.
- Within three (3) business days from the commencement of the forensic investigation, ensure that the PFI submits to MasterCard a preliminary forensic report detailing all investigative findings to date.
- Within twenty (20) business days from the commencement of the forensic investigation, provide to MasterCard a final forensic report detailing all findings, conclusions, and recommendations of the PFI, continue to address any outstanding exposure, and implement all recommendations until the ADC Event or Potential ADC Event is resolved to the satisfaction of MasterCard. In connection with the independent forensic investigation and preparation of the final forensic report, no Customer may engage in or enter into (or permit an Agent to engage in or enter into) any conduct, agreement, or understanding that would impair the completeness, accuracy, or objectivity of any aspect of the forensic investigation or final forensic report. The Customer shall not engage in any conduct (or permit an Agent to engage in any conduct) that could or would influence, or undermine the independence of, the PFI or undermine the reliability or integrity of the forensic investigation or final forensic report. By way of example, and not limitation, a Customer must not itself, or permit any of its Agents to, take any action or fail to take any action that would have the effect of:
 - 1. precluding, prohibiting, or inhibiting the PFI from communicating directly with MasterCard;
 - 2. permitting a Customer or its Agent to substantively edit or otherwise alter the forensic report; or

3. directing the PFI to withhold information from MasterCard.

Notwithstanding the foregoing, MasterCard may engage a PFI on behalf of the Customer in order to expedite the investigation. The Customer on whose behalf the PFI is so engaged will be responsible for all costs associated with the investigation.

10.2.2.2 Ongoing Procedures for ADC Events and Potential ADC Events

From the time that the Customer or its Agent becomes aware of an ADC Event or Potential ADC Event until the investigation is concluded to the satisfaction of MasterCard, the Customer must:

- Provide weekly written status reports containing current, accurate, and updated information concerning the ADC Event or Potential ADC Event, the steps being taken to investigate and remediate same, and such other information as MasterCard may request.
- Preserve all files, data, and other information pertinent to the ADC Event or Potential ADC Event, and refrain from taking any actions (e.g., rebooting) that could result in the alteration or loss of any such files, forensic data sources, including firewall and event log files, or other information.
- Respond fully and promptly, in the manner prescribed by MasterCard, to any questions or other requests (including follow-up requests) from MasterCard with regard to the ADC Event or Potential ADC Event and the steps being taken to investigate and remediate same.
- Authorize and require the PFI to respond fully, directly, and promptly to any written or oral questions or other requests from MasterCard, and to so respond in the manner prescribed by MasterCard, with regard to the ADC Event or Potential ADC Event, including the steps being taken to investigate and remediate same.
- Consent to, and cooperate with, any effort by MasterCard to engage and direct a PFI to perform an investigation and prepare a forensic report concerning the ADC Event or Potential ADC Event, in the event that the Customer fails to satisfy any of the foregoing responsibilities.
- Ensure that the compromised entity develops a remediation action plan, including implementation and milestone dates related to findings, corrective measures, and recommendations identified by the PFI and set forth in the final forensic report.
- Monitor and validate that the compromised entity has fully implemented the remediation action plan, recommendations, and corrective measures.

10.2.3 Forensic Report

The responsible Customer (or its Agent) must ensure that the PFI retain and safeguard all draft forensic report(s) pertaining to the ADC Event or Potential ADC Event and, upon request of MasterCard, immediately provide to MasterCard any such draft. The final forensic report required under section 10.2.2.1 must include the following, unless otherwise directed in writing by MasterCard:

- A statement of the scope of the forensic investigation, including sources of evidence and information used by the PFI.
- A network diagram, including all systems and network components within the scope of the forensic investigation. As part of this analysis, all system hardware and software versions, including POS applications and versions of applications, and hardware used by the compromised entity within the past twelve (12) months, must be identified.
- A payment Card Transaction flow depicting all POIs associated with the transmission, processing, and storage of Account data and network diagrams.
- A written analysis explaining the method(s) used to breach the subject entity's network or environment as well as method(s) used to access and exfiltrate Account data.
- A written analysis explaining how the security breach was contained and the steps (and relevant dates of the steps) taken to ensure that Account data are no longer at risk of compromise.
- An explanation of investigative methodology as well as identification of forensic data sources used to determine final report findings.
- A determination and characterization of Account data at-risk of compromise, including the number of Accounts and at-risk data elements (magnetic stripe data—Track 1 and Track 2, Cardholder name, PAN, expiration date, CVC 2, PIN, and PIN block).
- The location and number of Accounts where restricted Account data (magnetic stripe, Track 1 and Track 2, Cardholder name, PAN, expiration date, CVC 2, PIN, or PIN block), whether encrypted or unencrypyted, was or may have been stored by the entity that was the subject of the forensic investigation. This includes restricted Account data that was or may have been stored in unallocated disk space, backup media, and malicious software output files.
- A time frame for Transactions involving Accounts determined to be at risk of compromise. If Transaction date/time is not able to be determined, file-creation timestamps must be supplied.
- A determination of whether a security breach that exposed payment card data to compromise occurred.

On a requirement-by-requirement basis, a conclusion as to whether, at the
time that the ADC Event or Potential ADC Event occurred, each applicable
PCI SSC requirement was complied with. For the avoidance of doubt, as of
the date of the publication of these Standards, the PCI Security Standards
include the PCI DSS, PIN Entry Device (PCI PED) Security Requirements,
and Payment Application Data Security Standard (PA-DSS).

MasterCard may require the Customer to cause a PFI to conduct a PCI gap analysis and include the result of that analysis in the final forensic report.

The Customer must direct the PFI to submit a copy of the preliminary and final forensic reports to MasterCard via Secure Upload.

10.2.4 Alternative Standards Applicable to Certain Merchants

In the event of an ADC Event or Potential ADC Event (for purposes of this section 10.2.4, an "Event") for which the subject is a Level 2, Level 3, or Level 4 Merchant, in lieu of complying with the responsible Customer obligations set forth in section 10.2.2.1, the first bullet point of section 10.2.2.2, and section 10.2.3 of this Chapter 10, a responsible Customer may comply with the Standards set forth in this section 10.2.4 provided all of the following criteria are satisfied:

| Criterion A | MasterCard determin | es that fewer than | 7,500 Accounts |
|-------------|---------------------|--------------------|----------------|
|-------------|---------------------|--------------------|----------------|

are at risk of unauthorized disclosure as a result of

the Event; and

Criterion B MasterCard determines that the Merchant has not been

the subject of an ADC Event or Potential ADC Event for the thirty-six (36) consecutive months immediately preceding the date that MasterCard determines likely to be the earliest possible date of the Event; and

Criterion C The responsible Customer determines that the

Merchant uses a computer-based acceptance system that is not used by another Merchant or Merchants and that is not operated by a Service Provider of the

responsible Customer.

Should MasterCard determine that the subject of the Event is a Level 2, 3, or 4 Merchant and that Criteria A and B, above, are satisfied, MasterCard will provide notice to the responsible Customer via an e-mail message to the responsible Customer's Security Contact listed in the Member Information—MasterCard application then available on MasterCard Connect $^{\text{TM}}$.

Upon receipt of such notice, the responsible Customer may elect to cause a PFI to conduct an examination of the Merchant in accordance with section 10.2.2.1 of this Chapter 10. Alternatively, and provided the responsible Customer determines that Criterion C is satisfied, the responsible Customer itself may elect to investigate the Event in lieu of causing a PFI to conduct an examination of the Merchant.

If the responsible Customer itself elects to conduct the investigation, not later than sixty (60) days following the date of the notice by MasterCard described above, the responsible Customer must provide to MasterCard a written certification by an officer of the responsible Customer certifying that all of the following are true:

- The responsible Customer elected to investigate the ADC Event or Potential ADC Event in lieu of causing a PFI to investigate the ADC Event or Potential ADC Event; and
- The Merchant that is the subject of the ADC Event or Potential ADC Event does not use a computer-based acceptance system that is used by another Merchant or Merchants; and
- The responsible Customer's investigation of the ADC Event or Potential ADC Event has been completed and all security vulnerabilities have been eliminated; and
- The Merchant has newly validated or revalidated compliance with the PCI DSS. Documentation confirming such validation or revalidation must be provided to MasterCard with the officer certification.

Except as specifically set forth in this section 10.2.4, all other MasterCard and Customer rights and obligations with respect to an ADC Event or Potential ADC Event shall continue with respect to any ADC Event or Potential ADC Event that a responsible Customer itself elects to investigate in accordance with this section 10.2.4. Further, and for the avoidance of doubt, MasterCard has a right at any time to require a responsible Customer to cause a PFI to conduct a forensic examination of a Merchant notwithstanding the provisions of this section 10.2.4.

10.2.5 MasterCard Determination of ADC Event or Potential ADC Event

MasterCard will evaluate the totality of known circumstances, including but not limited to the following, to determine whether or not an occurrence constitutes an ADC Event or Potential ADC Event:

- a Customer or its Agent acknowledges or confirms the occurrence of an ADC Event or Potential ADC Event;
- any PFI report; or
- any information determined by MasterCard to be sufficiently reliable at the time of receipt.

10.2.5.1 Assessments for PCI Violations in Connection with ADC Events

Based on the totality of known circumstances surrounding an ADC Event or Potential ADC Event, including the knowledge and intent of the responsible Customer, MasterCard (in addition to any assessments provided for elsewhere in the Standards) may assess a responsible Customer up to USD 100,000 for each violation of a requirement of the PCI SSC.

10.2.5.2 Potential Reduction of Financial Responsibility

Notwithstanding a MasterCard determination that an ADC Event occurred, MasterCard may consider any actions taken by the compromised entity to establish, implement, and maintain procedures and support best practices to safeguard Account data prior to, during, and after the ADC Event or Potential ADC Event, in order to relieve, partially or fully, an otherwise responsible Customer of responsibility for any assessments, ADC operational reimbursement, ADC fraud recovery, and/or investigative costs. In determining whether to relieve a responsible Customer of any or all financial responsibility, MasterCard may consider whether the Customer has complied with all of the following requirements:

- Substantiation to MasterCard from a PCI SSC-approved Qualified Security Assessor (QSA) of the compromised entity's compliance with the PCI DSS at the time of the ADC Event or Potential ADC Event.
- Reporting that certifies any Merchant(s) associated with the ADC Event or Potential ADC Event as compliant with the PCI DSS and all applicable MasterCard Site Data Protection (SDP) Program requirements at the time of the ADC Event or Potential ADC Event in accordance with section 10.3.3 of this manual. Such reporting must also affirm that all third party-provided payment applications used by the Merchant(s) associated with the ADC Event or Potential ADC Event are compliant with the *Payment Card Industry Payment Application Data Security Standard*, as applicable. The applicability of the PCI PA-DSS to third party-provided payment applications is defined in the *PCI PA-DSS Program Guide*, found at pcisecuritystandards.org.
- If the compromised entity is a Europe Region Merchant, a PFI has validated that the Merchant was compliant with milestones one through four of the *PCI DSS Prioritized Approach* at the time of the ADC Event or Potential ADC Event.
- Registration of any TPP(s) or DSE(s) associated with the ADC Event through MasterCard Connect, in accordance with Chapter 7 of the *MasterCard Rules*.

- Notification of an ADC Event or Potential ADC Event to and cooperation with MasterCard and, as appropriate, law enforcement authorities.
- Verification that the forensic investigation was initiated within seventy-two (72) hours of the ADC Event or Potential ADC Event and completed as soon as practical.
- Timely receipt by MasterCard of the unedited (by other than the forensic examiner) forensic examination findings.
- Evidence that the ADC Event or Potential ADC Event was not foreseeable or preventable by commercially reasonable means and that, on a continuing basis, best security practices were applied.

In connection with its evaluation of the Customer's or its Agent's actions, MasterCard will consider, and may draw adverse inferences from, evidence that a Customer or its Agent(s) deleted or altered data.

As soon as practicable, MasterCard will contact the Customer's Security Contact, Principal Contact, or Merchant Acquirer Contact as they are listed in the Member Information tool, notifying all impacted parties of the impending financial obligation or compensation, as applicable.

It is the sole responsibility of each Customer, not MasterCard, to include current and complete information in the Member Information tool.

10.2.5.3 ADC Operational Reimbursement and ADC Fraud Recovery—MasterCard Only

NOTE

This section applies to MasterCard Transactions only.

ADC operational reimbursement enables an Issuer to partially recover costs incurred in reissuing Cards and for enhanced monitoring of compromised and/or potentially compromised MasterCard Accounts associated with an ADC Event. ADC fraud recovery enables an Issuer to recover partial incremental magnetic-stripe (POS 90) and/or Hybrid POS Terminal unable to process (POS 80) counterfeit fraud losses associated with an ADC Event. MasterCard determines ADC operational reimbursement and ADC fraud recovery.

ADC operational reimbursement and ADC fraud recovery are available to an Issuer that is licensed to access MasterCard Alerts at the time of the ADC Event. MasterCard reserves the right to determine which ADC Events will be eligible for ADC operational reimbursement and/or ADC fraud recovery and to limit or "claw back" ADC operational reimbursement and/or ADC fraud recovery based on the amount collected from the responsible Customer, excluding assessments, or for the purpose of compromising any claim asserted that arises from or is related to an ADC Event.

With regard to any particular ADC Event, MasterCard has no obligation to disburse an amount in excess of the amount that MasterCard actually and finally collects from the responsible Customer. In that regard, (i) any such amount actually and finally charged to a responsible Customer with respect to a particular ADC Event is determined by MasterCard following the full and final resolution of any claim asserted against MasterCard that arises from or is related to that ADC Event; and (ii) any funds disbursed by MasterCard to a Customer as ADC operational reimbursement and/or ADC fraud recovery is disbursed conditionally and subject to "claw back" until any claim and all claims asserted against MasterCard that arise from or are related to the ADC Event are fully and finally resolved.

MasterCard will charge the Issuer an administrative fee as established from time to time for administering the ADC operational reimbursement and ADC fraud recovery processes.

In the administration of the ADC operational reimbursement (OR) and ADC fraud recovery (FR) programs, MasterCard may determine the responsible Customer's financial responsibility with respect to an ADC Event. When determining financial responsibility, MasterCard may take into consideration the compromised entity's PCI level (as set forth in section 10.3.4), annual sales volume, and the factors set forth in section 10.2.5.2.

The annual sales volume is derived from the Merchant's clearing Transactions processed during the previous year via the Global Clearing Management System (GCMS). Transactions that are not processed by MasterCard will be included in the annual sales volume if such data is available. In the event that the Merchant's annual sales volume is not known, MasterCard will use the Merchant's existing sales volume to project the annual sales volume.

10.2.5.4 Operational Reimbursement (OR) Calculation—MasterCard Only

NOTE

This section applies to MasterCard Transactions only.

Subject to section 10.2.5.3, MasterCard generally calculates OR as follows:

- 1. Establish the total number of at-risk Accounts per Issuer ICA number by type of Card, assuming one and one-half (1 1/2) Cards per Account.
- 2. Subtract a fixed deductible (to be periodically published in a *Global Security Bulletin* or other MasterCard publication), to account for Card expirations, Card re-issuance cycles, Accounts included in previous MasterCard Alerts and the re-issuance of Accounts using the same PAN but a different expiration date.
- 3. Multiply the number of Accounts by an amount fixed by MasterCard from time to time.
- 4. **United States Region only**—For ADC Event investigation cases opened by MasterCard on or after 1 October 2013, subtract an additional 50 percent

deductible from the product resulting from Step 3 if the compromised entity is a U.S. Region Acquirer's Merchant located in the U.S. Region and MasterCard determines that all of the following are true:

- a. At least 75 percent of the Merchant's annual total Transaction count originating from POS Terminals **and** the Transaction processing environment deemed by MasterCard to be within the scope of the ADC Event were processed through Dual Interface Hybrid POS Terminals at the time of the subject ADC Event.
 - The Merchant's annual total Transaction count is determined based on the Merchant's clearing Transactions processed during the twelve (12) months prior to the date of publication of the MasterCard Alert, via the GCMS. Transactions that were not processed by MasterCard are included in the annual Transaction count if data is readily available to MasterCard. In the event that MasterCard is unable to readily determine the Merchant's annual total Transaction count, MasterCard may substitute any known Transaction count as a basis to project an annual total Transaction count; **and**
- b. The Merchant has not been identified by MasterCard as having experienced a different ADC Event during the twelve (12) months prior to the date of publication of the earliest MasterCard Alert for the subject ADC Event; **and**
- c. The Merchant was not storing Sensitive Card Authentication Data.
- 5. **United States Region only**—Effective 1 October 2015, MasterCard will not assess for OR if the compromised entity is a U.S. Region Acquirer's Merchant located in the U.S. Region and MasterCard has determined that:
 - a. At least 95 percent of the Merchant's annual total Transaction count originating from POS Terminals **and** the Transaction processing environment deemed by MasterCard to be within the scope of the ADC Event were processed through Dual Interface Hybrid POS Terminals at the time of the subject ADC Event.
 - The Merchant's annual total Transaction count is determined based on the Merchant's clearing Transactions processed during the twelve (12) months prior to the date of publication of the MasterCard Alert, via the GCMS. Transactions that were not processed by MasterCard are included in the annual Transaction count if data is readily available to MasterCard. In the event that MasterCard is unable to readily determine the Merchant's annual total Transaction count, MasterCard may substitute any known Transaction count as a basis to project an annual total Transaction count; **and**
 - b. The Merchant has not been identified by MasterCard as having experienced a different ADC Event during the twelve (12) months prior to the date of publication of the earliest MasterCard Alert for the subject ADC Event; **and**
 - c. The Merchant was not storing Sensitive Card Authentication Data.

10.2.5.5 Fraud Recovery (FR) Calculation—MasterCard Only

NOTE

This section applies to MasterCard Transactions only.

MasterCard determines FR in the manner set forth in this section.

Subject to section 10.2.5.3, MasterCard determines an amount of incremental counterfeit fraud attributable to an ADC Event based on the fraud data reported to the System to Avoid Fraud Effectively (SAFE). As used in the immediately preceding sentence, the word "incremental counterfeit fraud" means counterfeit fraud incremental to the counterfeit fraud that MasterCard determines would have been expected to occur had the ADC Event not occurred.

NOTE

If the fraud type reported to SAFE for one or more fraud transactions is changed after MasterCard has calculated the ADC fraud recovery amount, MasterCard does not recalculate the ADC fraud recovery amount.

The calculation of FR uses an "at-risk time frame." The at-risk time frame may be known or unknown.

The at-risk time frame is "known" if MasterCard is able to determine a period of time during which Accounts were placed at risk of use in fraudulent transactions due to or in connection with an ADC Event. In such case, the at-risk time frame for an Account number commences as of the date that MasterCard determines that Account became at risk, and ends, as the case may be, 30, 45, or 60 days after the date of publication of the earliest MasterCard Alert pertaining to that ADC Event disclosing that Account number (see the *ADC User's Guide* for additional information).

The at-risk time frame is "unknown" if MasterCard is unable to determine a known at-risk time frame. In such event, an at-risk time frame for an Account number commences twelve (12) months prior to the date of publication of the earliest MasterCard Alert for the ADC Event that discloses that Account number, and ends, as the case may be, 30, 45, or 60 days after the date of publication of that MasterCard Alert (see the *ADC User's Guide* for additional information).

An Account number disclosed in a MasterCard Alert in connection with a different ADC Event during the six (6) months prior to the earliest disclosure of that Account number in a MasterCard Alert published in connection with the subject ADC Event is not eligible for ADC fraud recovery for the subject ADC Event. In addition, a standard deductible, published from time to time, is applied to compensate for chargeback recoveries on Transactions using at-risk Account numbers and prior reissuance of at-risk Account numbers with different expiration dates.

United States Region only—MasterCard will:

1. For an ADC Event investigation case opened by MasterCard on or after 1 October 2013, apply an additional 50 percent deductible against the calculation of FR if the compromised entity is a U.S. Region Acquirer's

Merchant located in the U.S. Region and MasterCard determines that all of the following are true:

- a. At least 75 percent of the Merchant's annual total U.S.-acquired Transaction count originating from POS Terminals **and** the Transaction processing environment deemed by MasterCard to be within the scope of the ADC Event were processed through Dual Interface Hybrid POS Terminals at the time of the subject ADC Event.
 - The Merchant's annual total U.S.-acquired Transaction count is determined based on the Merchant's clearing Transactions processed during the twelve (12) months prior to the date of publication of the MasterCard Alert, via the GCMS. Transactions that were not processed by MasterCard are included in the annual U.S.-acquired Transaction count if the data is readily available to MasterCard. In the event that MasterCard is unable to readily determine the Merchant's annual total U.S.-acquired Transaction count, MasterCard may substitute any known U.S.-acquired Transaction count as a basis to project an annual total Transaction count; **and**
- b. The Merchant has not been identified by MasterCard as having experienced a different ADC Event during the twelve (12) months prior to the date of publication of the earliest MasterCard Alert for the subject ADC Event; **and**
- c. The Merchant was not storing Sensitive Card Authentication Data.
- 2. For an ADC Event investigation case opened by MasterCard on or after 1 October 2015, apply a 100 percent deductible against the calculation of FR if the compromised entity is a U.S. Region Acquirer's Merchant located in the U.S. Region and MasterCard determines that all of the following are true:
 - a. At least 95 percent of the Merchant's annual total U.S.-acquired Transaction count originating from POS Terminals **and** the Transaction processing environment deemed by MasterCard to be within the scope of the ADC Event were processed through Dual Interface Hybrid POS Terminals at the time of the subject ADC Event.
 - The Merchant's annual total U.S.-acquired Transaction count is determined based on the Merchant's clearing Transactions processed during the twelve (12) months prior to the date of publication of the MasterCard Alert, via the GCMS. Transactions that were not processed by MasterCard are included in the annual U.S.-acquired Transaction count if the data is readily available to MasterCard. In the event that MasterCard is unable to readily determine the Merchant's annual total U.S.-acquired Transaction count, MasterCard may substitute any known U.S.-acquired Transaction count as a basis to project an annual total Transaction count; **and**
 - b. The Merchant has not been identified by MasterCard as having experienced a different ADC Event during the twelve (12) months prior to the date of publication of the earliest MasterCard Alert for the subject ADC Event; **and**

c. The Merchant was not storing Sensitive Card Authentication Data.

10.2.5.6 Investigation and Other Costs

MasterCard may assess the responsible Customer for all investigation and other costs incurred by MasterCard in connection with an ADC Event and may assess a Customer for all investigative and other costs incurred by MasterCard in connection with a Potential ADC Event.

10.2.6 Assessments and/or Disqualification for Noncompliance

If the Customer fails to comply with the procedures set forth in this section 10.2, MasterCard may impose an assessment of up to USD 25,000 per day for each day that the Customer is noncompliant and/or disqualify the Customer from participating as a recipient of ADC operational reimbursement and fraud recovery disbursements, whether such disbursements are made in connection with the subject ADC Event or any other ADC Event, from the date that MasterCard provides the Customer with written notice of such disqualification until MasterCard determines that the Customer has resolved all compliance issues under this section 10.2.

10.2.7 Final Financial Responsibility Determination

Upon completion of its investigation, if MasterCard determines that a Customer bears financial responsibility for an ADC Event or Potential ADC Event, MasterCard will notify the responsible Customer of such determination and, either contemporaneous with such notification or thereafter, specify the amount of the Customer's financial responsibility for the ADC Event or Potential ADC Event.

The responsible Customer has thirty (30) calendar days from the date of such notification of the amount of the Customer's financial responsibility to submit a written appeal to MasterCard, together with any documentation and/or other information that the Customer wishes MasterCard to consider in connection with the appeal. Only an appeal that both contends that the MasterCard financial responsibility determination was not in accordance with the Standards and specifies with particularity the basis for such contention will be considered.

If the appeal is timely and meets these criteria, MasterCard will consider the appeal and the documentation and/or other information submitted therewith in determining whether or not the MasterCard final financial responsibility determination was made in accordance with the Standards. An appeal that is not timely or does not meet these criteria will not be considered. The MasterCard decision with respect to an appeal is final and there are no additional internal appeal rights.

This section does not relieve a Customer of any responsibility set forth in sections 10.2.2 and 10.2.3, including the responsibility to submit to MasterCard on a continuing basis throughout the pendency of the MasterCard investigation the information required by those sections. If MasterCard determines that a Customer knew or should have known with reasonable diligence of documents or other information that the Customer was required to submit to MasterCard during the pendency of the MasterCard investigation in accordance with sections 10.2.2 or 10.2.3, but failed to do so, such documents or other information will not be considered by MasterCard in deciding the appeal.

10.3 MasterCard Site Data Protection (SDP) Program

NOTE

This section applies to MasterCard and Maestro Transactions.

The MasterCard Site Data Protection (SDP) Program is designed to encourage Customers, Merchants, Third Party Processors (TPPs), and Data Storage Entities (DSEs) to protect against Account data compromises. The SDP Program facilitates the identification and correction of vulnerabilities in security processes, procedures, and Web site configurations. For the purposes of the SDP Program, TPPs and DSEs are collectively referred to as "Service Providers" in this chapter.

An Acquirer must implement the MasterCard SDP Program by ensuring that its Merchants and Service Providers are compliant with the *Payment Card Industry Data Security Standard (PCI DSS)* and that all applicable third party-provided payment applications used by its Merchants and Service Providers are compliant with the *Payment Card Industry Payment Application Data Security Standard* (PCI PA-DSS), in accordance with the implementation schedule defined in section 10.3.1 of this manual. Going forward, the *Payment Card Industry Data Security Standard* and the *Payment Card Industry Payment Application Data Security Standard* will be components of the SDP Program; these documents set forth security Standards that MasterCard hopes will be adopted as industry standards across the payment brands.

A Customer that complies with the SDP Program requirements may qualify for a reduction, partial or total, of certain costs or assessments if the Customer, a Merchant, or a Service Provider is the source of an Account data compromise.

MasterCard has sole discretion to interpret and enforce the SDP Program Standards.

10.3.1 Payment Card Industry Data Security Standards

The Payment Card Industry Data Security Standard and the Payment Card Industry Payment Application Data Security Standard establish data security requirements. Compliance with the Payment Card Industry Data Security Standard is required for all Issuers, Acquirers, Merchants, Service Providers, and any other person or entity that a Customer permits, directly or indirectly, to store, transmit, or process Account data. MasterCard requires validation of compliance only for those entities specified in the SDP Program implementation schedule in section 10.3.4. All Merchants and Service Providers that use third party-provided payment applications must only use payment applications that are compliant with the Payment Card Industry Payment Application Data Security Standard, as applicable. The applicability of the PCI PA-DSS to third party-provided payment applications is defined in the PCI PA-DSS Program Guide.

The Payment Card Industry Data Security Standard, the Payment Card Industry Payment Application Data Security Standard, the PCI PA-DSS Program Guide, and other PCI Security Standards manuals are available on the PCI Security Standards Council (SSC) Web site at www.pcisecuritystandards.org.

10.3.2 Compliance Validation Tools

As defined in the implementation schedule in section 10.3.4, Merchants and Service Providers must validate their compliance with the *Payment Card Industry Data Security Standard* by using the following tools:

Onsite Reviews

The onsite review evaluates Merchant or Service Provider compliance with the *Payment Card Industry Data Security Standard*. Onsite reviews are an annual requirement for Level 1 Merchants and for Level 1 Service Providers. Merchants may use an internal auditor or independent assessor recognized by MasterCard as acceptable. Service Providers must use an acceptable third-party assessor as defined on the SDP Program Web site. Onsite reviews must be conducted in accordance with the *Payment Card Industry Security Audit Procedures* manual.

The Payment Card Industry Self-assessment Questionnaire The *Payment Card Industry Self-assessment Questionnaire* is available at no charge on the PCI SSC Web site. To be compliant, each Level 2, 3, and 4 Merchant, and each Level 2 Service Provider must generate acceptable ratings on an annual basis.

Network Security Scan

The network security scan evaluates the security measures in place at a Web site. To fulfill the network scanning requirement, all Level 1 to 3 Merchants and all Service Providers as required by the implementation schedule must conduct scans on a quarterly basis using a vendor listed on the PCI SSC Web site. To be compliant, scanning must be conducted in accordance with the guidelines contained in the *Payment Card Industry DSS Security Scanning Procedures* manual.

10.3.3 Acquirer Compliance Requirements

To ensure compliance with the MasterCard SDP Program, an Acquirer must:

- For each Level 1, Level 2, and Level 3 Merchant, submit a quarterly status report via an e-mail message to sdp@mastercard.com using the form provided on the SDP Program Web site. This submission form must be completed in its entirety and may include information on:
 - The name and primary contact information of the Acquirer
 - The name of the Merchant
 - The Merchant identification number of the Merchant
 - The number of Transactions that the Acquirer processed for the Merchant during the previous 12-month period
 - The Merchant's level under the implementation schedule provided in section 10.3.4 of this manual
 - The Merchant's compliance status with its applicable compliance validation requirements
 - The Merchant's anticipated compliance validation date or the date on which the Merchant last validated its compliance (the "Merchant Validation Anniversary Date")
- Communicate the SDP Program requirements to each Level 1, Level 2, and Level 3 Merchant, and validate the Merchant's compliance with the *Payment Card Industry Data Security Standard* by reviewing its *Payment Card Industry Self-assessment Questionnaire* and the Reports on Compliance (ROC) that resulted from network security scans and onsite reviews of the Merchant, if applicable.
- Communicate the SDP Program requirements to each Level 1 and Level 2 Service Provider, and ensure that Merchants use only compliant Service Providers.

In submitting a quarterly SDP status report indicating that the Merchant has validated compliance within 12 months of the report submission date, the Acquirer certifies that:

- 1. The Merchant has, when appropriate, engaged and used the services of a data security firm(s) considered acceptable by MasterCard for onsite reviews, security scanning, or both.
- 2. Upon reviewing the Merchant's onsite review results, *Payment Card Industry Self-assessment Questionnaire*, or network scan reports, the Acquirer has determined that the Merchant is in compliance with the *Payment Card Industry Data Security Standard* requirements.
- 3. On an ongoing basis, the Acquirer will monitor the Merchant's compliance. If at any time the Acquirer finds the Merchant to be noncompliant, the Acquirer must notify the MasterCard SDP Department in writing at sdp@mastercard.com.

At its discretion and from time to time, MasterCard may also request the following information:

- Merchant principal data
- The name of any TPP or DSE that performs Transaction processing services for the Merchant's Transactions
- Whether the Merchant stores Account data

When considering whether a Merchant stores Account data, Acquirers carefully should survey each Merchant's data processing environment. Merchants that do not store Account information in a database file still may accept payment Card information via a Web page and therefore store Account data temporarily in memory files. Per the MasterCard data storage definition, any temporary or permanent retention of Account data is considered to be storage. A Merchant that does not store Account data never processes the data in any form, such as in the case of a Merchant that outsources its environment to a Web hosting company, or a Merchant that redirects customers to a payment page hosted by a third-party Service Provider.

10.3.4 Implementation Schedule

All onsite reviews, network security scans, and self-assessments must be conducted according to the guidelines in section 10.3.2. For purposes of the SDP Program, Service Providers in this section refer to TPPs and DSEs.

The Acquirer must ensure, with respect to each of its Merchants, that "transition" from one PCI level to another (for example, the Merchant transitions from Level 4 to Level 3 due to Transaction volume increases), that such Merchant achieves compliance with the requirements of the applicable PCI level as soon as practical, but in any event not later than one year after the date of the event that results in or causes the Merchant to transition from one PCI level to another.

All Level 1, 2, and 3 Merchants and all Service Providers that use any third party-provided payment applications must validate that each payment application used is listed on the PCI SSC Web site at www.pcisecuritystandards.org as compliant with the *Payment Card Industry Payment Application Data Security Standard*, as applicable. The applicability of the PCI PA-DSS to third party-provided payment applications is defined in the *PCI PA-DSS Program Guide*.

Level 1 Merchants

A Merchant that meets any one or more of the following criteria is deemed to be a Level 1 Merchant and must validate compliance with the *Payment Card Industry Data Security Standard*:

- Any Merchant that has suffered a hack or an attack that resulted in an Account data compromise,
- Any Merchant having greater than six million total combined MasterCard and Maestro transactions annually,
- Any Merchant meeting the Level 1 criteria of Visa, and
- Any Merchant that MasterCard, in its sole discretion, determines should meet the Level 1 Merchant requirements to minimize risk to the system.

To validate compliance, each Level 1 Merchant must successfully complete:

- An annual onsite assessment conducted by a PCI SSC approved Qualified Security Assessor (QSA) or internal auditor, and
- Quarterly network scans conducted by a PCI SSC Approved Scanning Vendor (ASV).

Level 1 Merchants that use internal auditors for compliance validation must ensure that primary internal auditor staff engaged in validating compliance with the *Payment Card Industry Data Security Standard* attend the PCI SSC-offered Internal Security Assessor (ISA) Program and pass the PCI SSC associated accreditation examination annually in order to continue to use internal auditors.

Level 2 Merchants

Unless deemed to be a Level 1 Merchant, the following are deemed to be a Level 2 Merchant and must validate compliance with the *Payment Card Industry Data Security Standard*:

- Any Merchant with greater than one million but less than or equal to six million total combined MasterCard and Maestro transactions annually, and
- Any Merchant meeting the Level 2 criteria of Visa.

To validate compliance, each Level 2 Merchant must successfully complete:

- An annual self-assessment, and
- Quarterly network scans conducted by a PCI SSC ASV.

Each Level 2 Merchant must ensure that staff engaged in self-assessing the Merchant's compliance with the *Payment Card Industry Data Security Standard* attend the PCI SSC-offered ISA Program and pass the associated PCI SSC accreditation examination annually in order to continue the option of self-assessment for compliance validation. Level 2 Merchants may alternatively, at their own discretion, engage a PCI SSC-approved QSA for an onsite assessment instead of performing a self-assessment.

Level 3 Merchants

Unless deemed to be a Level 1 or Level 2 Merchant, the following are deemed to be a Level 3 Merchant and must validate compliance with the *Payment Card Industry Data Security Standard*:

- Any Merchant with greater than 20,000 but less than or equal to one million total combined MasterCard and Maestro electronic commerce (e-commerce) transactions annually, and
- Any Merchant meeting the Level 3 criteria of Visa.

To validate compliance, each Level 3 Merchant must successfully complete:

- An annual self-assessment, and
- Quarterly network scans conducted by a PCI SSC ASV.

Level 4 Merchants

Any Merchant not deemed to be a Level 1, Level 2, or Level 3 Merchant is deemed to be a Level 4 Merchant. Compliance with the *Payment Card Industry Data Security Standard* is required for a Level 4 Merchant, although validation of compliance (and all other MasterCard SDP Program Acquirer requirements set forth in section 10.3.3) is optional for a Level 4 Merchant. However, a validation of compliance is strongly recommended for Acquirers with respect to each Level 4 Merchant in order to reduce the risk of Account data compromise and for an Acquirer potentially to gain a partial waiver of related assessments.

A Level 4 Merchant may validate compliance with the *Payment Card Industry Data Security Standard* by successfully completing:

- An annual self-assessment, and
- Quarterly network scans conducted by a PCI SSC ASV.

If a Level 4 Merchant has validated its compliance with the *Payment Card Industry Data Security Standard* and the *Payment Card Industry Payment Application Data Security Standard* as described in this section, the Acquirer may, at its discretion, fulfill the reporting requirements described in section 10.3.3.

Level 1 Service Providers

A Level 1 Service Provider is any TPP (regardless of volume) and any DSE that stores, transmits, or processes more than 300,000 total combined MasterCard and Maestro transactions annually.

Each Level 1 Service Provider must validate compliance with the *Payment Card Industry Data Security Standard* by successfully completing:

- An annual onsite assessment by a PCI SSC approved QSA, and
- Quarterly network scans conducted by a PCI SSC ASV.

Level 2 Service Providers

A Level 2 Service Provider is any DSE that is not deemed a Level 1 Service Provider and that stores, transmits, or processes 300,000 or less total combined MasterCard and Maestro transactions annually.

Each Level 2 Service Provider must validate compliance with the *Payment Card Industry Data Security Standard* by successfully completing:

- · An annual self-assessment, and
- Quarterly network scans conducted by a PCI SSC ASV.

MasterCard has the right to audit Customer compliance with the SDP Program requirements. Noncompliance on or after the required implementation date may result in assessments described in Table 10.1.

Table 10.1—Assessments for Noncompliance with the SDP Program

| Failure of the following to comply with the SDP Program mandate | May result in an assessment of |
|---|---|
| Classification | Violations per calendar year |
| Level 1 and Level 2 Merchants | Up to USD 25,000 for the first violation Up to USD 50,000 for the second violation Up to USD 100,000 for the third violation Up to USD 200,000 for the fourth violation |
| Level 3 Merchants | Up to USD 10,000 for the first violation Up to USD 20,000 for the second violation Up to USD 40,000 for the third violation Up to USD 80,000 for the fourth violation |
| Level 1 and Level 2 Service Providers | Up to USD 25,000 for the first violation Up to USD 50,000 for the second violation Up to USD 100,000 for the third violation Up to USD 200,000 for the fourth violation |

Noncompliance also may result in Merchant termination, deregistration of a TPP or DSE as a Service Provider, or termination of the Acquirer as a Customer as provided in Rule 2.1.2 of the *MasterCard Rules* manual.

The Acquirer must provide compliance action plans and quarterly compliance status reports for each Level 1, Level 2, and Level 3 Merchant using the SDP Acquirer Submission and Compliance Status Form, available at http://www.mastercard.com/us/sdp/index.html or by contacting the MasterCard SDP Department at sdp@mastercard.com.

Acquirers must complete the form(s) in their entirety and submit the form(s) via e-mail message to sdp@mastercard.com on or before the last day of the quarter, as indicated below.

| For this quarter | Submit the form(s) no later than |
|--------------------------|----------------------------------|
| 1 January to 31 March | 31 March |
| 1 April to 30 June | 30 June |
| 1 July to 30 September | 30 September |
| 1 October to 31 December | 31 December |

Late submission or failure to submit the required form(s) may result in an additional assessment to the Acquirer as described for Category A violations in Rule 2.1.4 of the *MasterCard Rules* manual.

10.3.4.1 MasterCard PCI DSS Risk-based Approach

A qualifying Level 1 or Level 2 Merchant located outside of the U.S. Region may use the MasterCard PCI DSS Risk-based Approach, pursuant to which the Merchant:

- Validates compliance with the first four of the six total milestones set forth in the *PCI DSS Prioritized Approach*, as follows:
 - A Level 1 Merchant must validate compliance through an onsite assessment conducted by a PCI SSC-approved QSA, or by conducting an onsite assessment using internal resources that have been trained and certified through the PCI SSC-offered ISA Program.
 - A Level 2 Merchant must validate compliance using a Self-Assessment Questionnaire (SAQ) completed by internal resources that have been trained and certified through the PCI SSC-offered ISA Program. Alternatively, the Level 2 Merchant may validate PCI DSS compliance via an onsite assessment.
- Annually revalidates compliance with milestones one through four using an SAQ. The SAQ must be completed by internal staff trained and currently certified through the PCI SSC-offered ISA Program.

To qualify as compliant with the MasterCard PCI DSS Risk-based Approach, a Merchant must satisfy all of the following:

- The Merchant must certify that it is not storing Sensitive Card Authentication Data.
- On a continuous basis, the Merchant must keep fully segregated the "Card-not-present" Transaction environment from the "face-to-face" Transaction environment. A face-to-face Transaction requires the Card, the Cardholder, and the Merchant to all be present together at the time and place of the Transaction.
- For a Merchant located in the Europe Region, at least 95 percent of the Merchant's annual total count of Card-present MasterCard and Maestro transactions must occur at Hybrid POS Terminals.
- For a Merchant located in the Asia/Pacific Region, Canada Region, Latin America and the Caribbean Region, or South Asia/Middle East/Africa Region, at least 75 percent of the Merchant's annual total count of Card-present MasterCard and Maestro transactions must occur at Hybrid POS Terminals.
- The Merchant must not have experienced an ADC Event within the last 12 months. At the discretion of MasterCard, this and other criteria may be waived if the Merchant validated full PCI DSS compliance at the time of the ADC Event or Potential ADC Event.
- The Merchant must establish and annually test an ADC Event incident response plan.

Information about the *PCI DSS Prioritized Approach* is available at: www.pcisecuritystandards.org/education/prioritized.shtml

10.3.4.2 MasterCard PCI DSS Compliance Validation Exemption Program

A qualifying Level 1 or Level 2 Merchant may participate in the MasterCard PCI DSS Compliance Validation Exemption Program (the "Exemption Program"), which exempts the Merchant from the requirement to annually validate its compliance with the PCI DSS.

To qualify or remain qualified to participate in the Exemption Program, a duly authorized and empowered officer of the Merchant must certify to the Merchant's Acquirer in writing that the Merchant has satisfied all of the following:

- 1. The Merchant validated its compliance with the PCI DSS within the previous twelve (12) months or, alternatively, has submitted to its Acquirer, and the Acquirer has submitted to MasterCard, a defined remediation plan satisfactory to MasterCard designed to ensure that the Merchant achieves PCI DSS compliance based on a PCI DSS gap analysis;
- 2. The Merchant does not store Sensitive Card Authentication Data. The Acquirer must notify MasterCard through compliance validation reporting of the status of Merchant storage of Sensitive Card Authentication Data;

- 3. The Merchant has not been identified by MasterCard as having experienced an ADC Event during the prior twelve (12) months;
- 4. The Merchant has established and annually tests an ADC Event incident response plan in accordance with PCI DSS requirements; and
- 5. At least 75 percent of the Merchant's annual total acquired MasterCard and Maestro Transaction count is processed through Dual Interface Hybrid POS Terminals, as determined based on the Merchant's transactions processed during the previous twelve (12) months via the GCMS and/or Single Message System. Transactions that were not processed by MasterCard may be included in the annual acquired Transaction count if the data is readily available to MasterCard.

An Acquirer must retain all Merchant certifications of eligibility for the Exemption Program for a minimum of five (5) years. Upon request by MasterCard, the Acquirer must provide a Merchant's certification of eligibility for the Exemption Program and any documentation and/or other information applicable to such certification. An Acquirer is responsible for ensuring that each Exemption Program certification is truthful and accurate.

A Merchant that does not satisfy the Exemption Program's eligibility criteria, including any Merchant whose Transaction volume is primarily from e-commerce and Mail Order/Telephone Order (MO/TO) acceptance channels, must continue to validate its PCI DSS compliance in accordance with the MasterCard SDP implementation schedule.

All Merchants must maintain ongoing compliance with the PCI DSS regardless of whether annual compliance validation is a requirement.

10.3.4.3 Mandatory Compliance Requirements for Compromised Entities

Under the audit requirement set forth in section 10.2.2.1, the Acquirer must ensure that a detailed forensics evaluation is conducted.

At the conclusion of the forensics evaluation, MasterCard will provide a MasterCard Site Data Protection (SDP) Account Data Compromise Information Form for completion by the compromised entity itself, if the compromised entity is a TPP or DSE, or by its Acquirer, if the compromised entity is a Merchant. The form must be returned via e-mail to pci-adc@mastercard.com within 30 calendar days of its receipt, and must include:

- The names of the QSA and the ASV that conducted the forensics evaluation, and
- The entity's current level of compliance with the *Payment Card Industry Data Security Standard*, and
- A gap analysis providing detailed steps required for the entity to achieve full compliance with the *Payment Card Industry Data Security Standard*.

As soon as practical, but no later than 60 calendar days from the conclusion of the forensics evaluation, the compromised entity or its Acquirer must provide evidence from a QSA and an ASV that the compromised entity has achieved full compliance with the *Payment Card Industry Data Security Standard*.

Such evidence (for example, a letter attesting to the entity's compliance, a compliance certificate, or a compliance status report) must be submitted to MasterCard via e-mail to pci-adc@mastercard.com.

Failure to comply with these requirements may result in SDP noncompliance assessments as described in section 10.3.4. Any Merchant or Level 1 or Level 2 Service Provider that has suffered a confirmed Account data compromise will be automatically reclassified to become a Level 1 Merchant or a Level 1 Service Provider, respectively. All compliance validation requirements for such Level 1 entities will apply.

10.4 Connecting to MasterCard—Physical and Logical Security Requirements

Each Customer and any agent thereof must be able to demonstrate to the satisfaction of MasterCard the existence and use of meaningful physical and logical security controls for any communications processor or other device used to connect the Customer's processing systems to the MasterCard Worldwide Network (herein, "a MasterCard Network Device") and all associated components, including all hardware, software, systems, and documentation (herein collectively referred to as "Service Delivery Point Equipment") located on-site at the Customer or agent facility. Front-end communications processors include MasterCard interface processors (MIPs), network interface units (NIUs), and debit interface units (DIUs).

The controls must meet the minimum requirements described in this section, and preferably will include the recommended additional parameters.

10.4.1 Minimum Security Requirements

At a minimum, the Customer or its agent must put in place the following controls at each facility housing Service Delivery Point Equipment:

- Each network segment connecting a MasterCard Network Device to the Customer's processing systems must be controlled tightly, as appropriate or necessary to prevent unauthorized access to or from other public or private network segments.
- 2. The connectivity provided by each such network segment must be dedicated wholly and restricted solely to the support of communications between MasterCard and the Customer's processing systems.
- 3. The Customer or its agent must replace each vendor-supplied or default password present on the Customer's processing systems, each MasterCard Network Device, and any device providing connectivity between them with

- a "strong password." A strong password contains at least eight characters, uses a combination of letters, numbers, symbols, punctuation, or all, and does not include a name or common word(s).
- 4. The Customer or its agent must conduct regular periodic reviews of all systems and devices that store Account information to ensure that access is strictly limited to appropriate Customer personnel on a "need to know" basis.
- 5. The Customer or its agent must notify MasterCard within 30 business days of any change in the personnel designated to administer the MasterCard Network Device. Refer to Appendix C of this manual for contact information.
- 6. The Customer or its agent must maintain and document appropriate audit procedures for each MasterCard Network Device. Audit reports must be maintained and accessible to the Customer for at least one year, including a minimum of 90 days in an easily retrieved electronic format.
- 7. The Customer must ensure that the software employed in any system or device used to provide connectivity to the MasterCard Worldwide Network is updated with all appropriate security patches, revisions, and other updates as soon after a release as is practicable.
- 8. The physical location of the Service Delivery Point Equipment must be accessible only by authorized personnel of the Customer or its agent. Visitor access must be controlled by at least one of the following measures:
 - a. Require each visitor to provide government-issued photo identification before entering the physical location; and/or
 - b. Require each visitor to be escorted to the physical location by authorized personnel of the Customer or its agent.
- 9. If the physical location of the Service Delivery Point Equipment provides common access to other devices or equipment, then the MasterCard Network Device must be stored in a cabinet that is locked both in front and the rear at all times. Keys to the cabinet must be stored in a secured location.
- 10. The Customer or its agent must have documented procedures for the removal of Service Delivery Point Equipment from the physical location.

10.4.2 Additional Recommended Security Requirements

Customers and their agents are strongly encouraged to put in place the following additional controls at each facility housing a MasterCard Network Device:

- 1. Placement of the MasterCard Network Device in a physical location that is enclosed by floor-to-ceiling walls.
- 2. Continual monitoring of the MasterCard Network Device by cameras or other type of electronic surveillance system. Video records should be maintained for a minimum of 90 days.

10.4.3 Ownership of Service Delivery Point Equipment

MasterCard is the sole and exclusive owner of all Service Delivery Point Equipment placed by MasterCard at the Service Delivery Point.

Effective as of date of placement, the Customer is granted a nonexclusive, non-assignable License to use the Service Delivery Point Equipment. The Customer may not take any action adverse to MasterCard with respect to its ownership of the Service Delivery Point Equipment.

The Customer at all times remains responsible for the safety and proper use of all Service Delivery Point Equipment placed at a location by request of the Customer, and must employ at that location the minimum security requirements set forth in this section 10.4. At its own expense, the Customer must promptly return all Service Delivery Point Equipment to MasterCard upon request of MasterCard and without such request, in the event of bankruptcy or insolvency.

Chapter 11 MATCH System

This chapter is for Acquirer personnel responsible for investigating and signing potential new Merchants and for adding Merchants to the Member Alert to Control High-risk (Merchants) (MATCH $^{\text{TM}}$) system.

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11.1 MATCH Overview

MasterCard designed MATCHTM, the Member Alert to Control High-risk (Merchants) system, to provide Acquirers with the opportunity to develop and review enhanced or incremental risk information before entering into a Merchant Agreement. MATCH is a mandatory system for MasterCard Acquirers. The MATCH database includes information about certain Merchants (and their owners) that an Acquirer has terminated.

When an Acquirer considers signing a Merchant, MATCH can help the Acquirer assess whether the Merchant was terminated by another Acquirer due to circumstances that could affect the decision whether to acquire for this Merchant and, if a decision is made to acquire, whether to implement specific action or conditions with respect to acquiring.

WARNING!

MasterCard does not verify, otherwise confirm, or ask for confirmation of either the basis for or accuracy of any information that is reported to or listed in MATCH. It is possible that information has been wrongfully reported or inaccurately reported. It is also possible that facts and circumstances giving rise to a MATCH report may be subject to interpretation and dispute.

11.1.1 System Features

MATCH uses Customer-reported information regarding Merchants and their owners to offer Acquirers the following fraud detection features and options for assessing risk:

- Acquirers may add and search for information regarding up to five principal and associate business owners per Merchant.
- Acquirers may designate regions and countries for database searches.
- MATCH uses multiple fields to determine possible matches.
- MATCH edits specific fields of data and reduces processing delays by notifying inquiring Customers of errors as records are processed.
- MATCH supports retroactive alert processing of data residing on the database for up to 360 days.
- Acquirers determine whether they want to receive inquiry matches, and if so, the type of information that the system returns.
- MATCH processes data submitted by Acquirers once per day and provides daily detail response files.
- Acquirers may access MATCH data online in real time using a PC at the Acquirer's site.

Through direct communication with the listing Acquirer, an inquiring Acquirer may determine whether the Merchant inquired of is the same Merchant previously reported to MATCH, terminated, or inquired about within the past 360 days. The inquiring Acquirer must then determine whether additional investigation is appropriate, or if it should take other measures to address risk issues.

11.1.2 How does MATCH Search when Conducting an Inquiry?

MATCH searches the database for possible matches between the information provided in the inquiry and the following:

- Information reported and stored during the past five years
- Other inquiries during the past 360 days

MATCH searches for exact possible matches and phonetic possible matches.

NOTE

All MATCH responses reflecting that inquiry information is resident on MATCH are deemed "possible matches" because of the nature of the search mechanisms employed and the inability to report a true and exact match with absolute certainty.

NOTE

There are two types of possible matches, including a data match (for example, name to name, address to address) and a phonetic (sound-alike) match made using special software.

NOTE

For convenience only, the remainder of this manual may sometimes omit the word "possible" when referring to "possible matches" or "a possible match."

The Acquirer determines the number of phonetic matches—one to nine—that will cause a possible match to be trustworthy.

MATCH returns the first 100 responses for each inquiry submitted by an Acquirer. MATCH returns all terminated Merchant MATCH responses regardless of the number of possible matches.

11.1.2.1 Retroactive Possible Matches

If the information in the original inquiry finds new possible matches of a Merchant or inquiry record in the MATCH database added since the original inquiry was submitted and this information has not been previously reported to the Acquirer at least once within the past 360 days, the system returns a **retroactive** possible match response.

11.1.2.2 Exact Possible Matches

MATCH finds an exact possible match when data in an inquiry record matches data on the MATCH system letter-for-letter, number-for-number, or both. An exact match to any of the following data results in a possible match response from MasterCard:

Table 11.1—Exact Possible Match Criteria

| Field | + | Field | + | Field | = | Match |
|--|---|-------------------------|---|-------------------------|---|--------------|
| Business Name | | | | | = | √ |
| Business Phone Number | | | | | = | \checkmark |
| Business National Tax ID | + | Country | | | = | √ |
| Business State Tax ID | + | State | | | = | √ |
| Business Street Address | + | City | + | State ¹ | = | \checkmark |
| Business Street Address | + | City | + | Country ² | = | √ |
| Principal Owner's (PO) First Initial | + | Last Name | | | = | √ |
| PO First Name | + | Last Name | | | = | \checkmark |
| PO Phone Number | | | | | = | √ |
| PO Social Security Number ¹ | | | | | = | √ |
| PO National ID ² | | | | | = | \checkmark |
| PO Street Address (lines 1 and 2) | + | PO City | + | PO State ¹ | = | $\sqrt{}$ |
| PO Street Address (lines 1 and 2) | + | PO City | + | PO Country ² | = | √ |
| PO Driver's License (DL) Number | + | DL State ¹ | | | = | √ |
| PO Driver's License Number | + | DL Country ² | | | = | √ |

NOTE

MATCH uses Street, City, and State if the Merchant's country is USA; otherwise, Street, City, and Country are used.

^{1.} If country is USA.

^{2.} If country is not USA.

11.1.2.3 Phonetic Possible Matches

The MATCH system converts certain alphabetic data, such as Business Name and Principal Owner Last Name to a phonetic code. The phonetic code generates matches on words that sound alike, such as "Easy" and "EZ." The phonetic matching feature of the system also matches names that are not necessarily a phonetic match but might differ because of a typographical error, such as "Rogers" and "Rokers," or a spelling variation, such as "Lee," "Li," and "Leigh."

MATCH evaluates the following data to determine a phonetic possible match.

Table 11.2—Phonetic Possible Match Criteria

| Field | + | Field | + | Field | = | Match |
|--------------------------------------|---|-----------|---|-------------------------|---|-----------|
| Business Name | | | | | = | $\sqrt{}$ |
| Doing Business As (DBA) Name | | | | | = | |
| Business Street Address | + | City | + | State ³ | = | |
| Business Street Address | + | City | + | Country ⁴ | = | |
| Principal Owner's (PO) First Initial | + | Last Name | | | = | |
| PO Street Address (lines 1 and 2) | + | PO City | + | PO State ³ | = | |
| PO Street Address (lines 1 and 2) | + | PO City | + | PO Country ⁴ | = | |

NOTE

MATCH uses Street, City, and State if the Merchant's country is USA; otherwise, Street, City, and Country are used.

11.2 MATCH Standards

MasterCard mandates that all Acquirers with Merchant activity use MATCH.⁵ To use means both to:

- Add information about a Merchant that is terminated while or because a circumstance exists (See section 11.2.2), and
- Inquire against the MATCH database

Customers must act diligently, reasonably, and in good faith to comply with MATCH Standards.

^{3.} If country is USA

^{4.} If country is not USA

^{5.} Acquirers globally are assessed an annual MATCH usage fee of USD 4,000. In addition, Acquirers are assessed a MATCH inquiry fee (per Member ID/ICA number) for each MATCH inquiry.

11.2.1 Certification

Each Acquirer that conducts Merchant acquiring Activity must be certified by MasterCard to use MATCH because it is a mandatory system. An Acquirer that does not comply with these requirements may be assessed for noncompliance, as described in this chapter.

Certification is the process by which MasterCard connects an Acquirer to the MATCH system, so that the Acquirer may send and receive MATCH records to and from MasterCard. To be certified for MATCH usage, Acquirers must request access for each Member ID/ICA number under which acquiring Activity is conducted.

NOTE

An Acquirer that conducts Merchant acquiring Activity under a Member ID/ICA number that does not have access to the MATCH system is not considered certified.

An Acquirer that is not MATCH-certified is subject to noncompliance assessments as described in Table 11.3.

11.2.2 When to Add a Merchant to MATCH

If either the Acquirer or the Merchant acts to terminate the acquiring relationship (such as by giving notice of termination) and, at the time of that act, the Acquirer has reason to believe that a condition described in Table 11.4 exists, then the Acquirer must add the required information to MATCH within five calendar days of the earlier of either:

- 1. A decision by the Acquirer to terminate the acquiring relationship, regardless of the effective date of the termination, or
- 2. Receipt by the Acquirer of notice by or on behalf of the Merchant of a decision to terminate the acquiring relationship, regardless of the effective date of the termination.

Acquirers must act diligently, reasonably, and in good faith to comply with MATCH system requirements.

Acquirers may not use or threaten to use MATCH as a collection tool for minor Merchant discretionary activity. One of the defined reason codes in Table 11.4 must be met or suspected (at decision to terminate) to justify a Merchant addition. Acquirers that use or threaten to use MATCH as a collection tool for minor Merchant discretionary activity are subject to noncompliance assessments as described in Table 11.3.

An Acquirer that fails to enter a Merchant into MATCH is subject to a noncompliance assessment, and may be subject to an unfavorable ruling in a compliance case filed by a subsequent Acquirer of that Merchant.

11.2.3 Inquiring about a Merchant

An Acquirer must check MATCH **before** signing an agreement with a Merchant in accordance with section 7.1 of this manual.

An Acquirer that enters into a Merchant Agreement without first submitting an inquiry to MATCH about the Merchant may be subject to an unfavorable ruling in a compliance case filed by a subsequent Acquirer of that Merchant.

Acquirers must conduct inquiries under the proper Member ID for reporting compliance reasons. If an Acquirer does not conduct the inquiry under the proper Member ID (that is, the Member ID that is actually processing for the Merchant), MasterCard may find the Acquirer in noncompliance and may impose an assessment.

Failure to comply with either the requirement of adding a terminated Merchant or inquiring about a Merchant may result in noncompliance assessments as described in Table 11.3.

11.2.6 MATCH Record Retention

An Acquirer should retain all MATCH records returned by MasterCard to substantiate that the Acquirer complied with the required procedures. MasterCard recommends that the Acquirer retain these records in a manner that allows for easy retrieval.

Merchant records remain on the MATCH system for five years. Each month, MATCH automatically purges any Merchant information that has been in the database for five years.

NOTE

The MATCH system database stores inquiry records for 360 days.

11.4 Merchant Removal from MATCH

MasterCard may remove a Merchant listing from MATCH for the following reasons:

- The Acquirer reports to MasterCard that the Acquirer added the Merchant to MATCH in error.
- The Merchant listing is for reason code 12 (*Payment Card Industry Data Security Standard* Noncompliance) and the Acquirer has confirmed that the Merchant has become compliant with the *Payment Card Industry Data Security Standard*. The Acquirer must submit the request to remove a MATCH reason code 12 Merchant listing from MATCH in writing on the Acquirer's letterhead to Merchant Fraud Control. Such request must include the following information:
 - 1. Acquirer ID Number

- 2. Merchant ID Number
- 3. Merchant Name
- 4. Doing Business As (DBA) Name
- 5. Business Address
 - a. Street Address
 - b. City
 - c. State
 - d. Country
 - e. Postal Code
- 6. Principal Owner (PO) Data
 - a. PO's First Name and Last Name
 - b. PO's Country of Residence

Refer to section C.2 of Appendix C of this manual for the contact information of Merchant Fraud Control.

Any request relating to a Merchant listed for reason code 12 must contain:

- The Acquirer's attestation that the Merchant is in compliance with the Payment Card Industry Data Security Standard, and
- A letter or certificate of validation from a MasterCard certified forensic examiner, certifying that the Merchant has become compliant with the *Payment Card Industry Data Security Standard*.

If an Acquirer is unwilling or unable to submit a request to MasterCard with respect to a Merchant removal from a MATCH listing as a result of the Merchant obtaining compliance with the *Payment Card Industry Data Security Standard*, the Merchant itself may submit a request to MasterCard for this reason. The Merchant must follow the same process as described above for Acquirers to submit the MATCH removal request.

11.5 MATCH Reason Codes

MATCH reason codes identify whether a Merchant was added to the MATCH system by the Acquirer or by MasterCard, and the reason for the listing.

11.5.1 Reason Codes for Merchants Listed by the Acquirer

The following reason codes indicate why an Acquirer reported a terminated Merchant to MATCH.

Table 11.4—MATCH Listing Reason Codes Used by Acquirers

| MATCH Reason Code | Description |
|-------------------------|--|
| 01 | Account Data Compromise The Merchant unknowingly or unintentionally facilitated, by any means, the unauthorized disclosure or use of Account information. |
| 02 | Common Point of Purchase (CPP) The Merchant knowingly caused or facilitated, by any means, the unauthorized disclosure or use of Account information. |
| 03 | Laundering The Merchant was engaged in laundering activity. Laundering means that a Merchant presented to its Acquirer Transaction records that were not valid Transactions for sales of goods or services between that Merchant and a bona fide Cardholder. |
| 04 | Excessive Chargebacks With respect to a Merchant reported by a MasterCard Acquirer, the Merchant's chargebacks in any single month exceeded 1% of its MasterCard sales Transactions in that month, and those chargebacks totaled USD 5,000 or more. With respect to a merchant reported by an American Express acquirer (ICA numbers 102 through 125), the merchant exceeded the chargeback thresholds of American Express, as determined by American Express. |
| 05 | Excessive Fraud The Merchant effected fraudulent Transactions of any type (counterfeit or otherwise) meeting or exceeding the following minimum reporting Standard: the Merchant's fraud-to-sales dollar volume ratio was 8% or greater in a calendar month, and the Merchant effected 10 or more fraudulent Transactions totaling USD 5,000 or more in that calendar month. |
| 06 | Reserved for Future Use (Refer to Table 11.5) |
| 07 | Fraud Conviction There was a criminal fraud conviction of a principal owner or partner of the Merchant. |
| 08 | MasterCard Questionable Merchant Audit Program The Merchant was determined to be a Questionable Merchant as per the criteria set forth in the MasterCard Questionable Merchant Audit Program (refer to section 8.4 of this manual). |
| 09 | Bankruptcy/Liquidation/Insolvency The Merchant was unable or is likely to become unable to discharge its financial obligations. |

| MATCH Reason | |
|-----------------|---|
| Code | Description |
| 10 | Violation of Standards |
| | With respect to a Merchant reported by a MasterCard Acquirer, the Merchant was in violation of one or more Standards that describe procedures to be employed by the Merchant in Transactions in which Cards are used, including, by way of example and not limitation, the Standards for honoring all Cards, displaying the Marks, charges to Cardholders, minimum/maximum Transaction amount restrictions, and prohibited Transactions set forth in Chapter 5 of the <i>MasterCard Rules</i> manual. |
| | With respect to a merchant reported by an American Express acquirer (ICA numbers 102 through 125), the merchant was in violation of one or more American Express bylaws, rules, operating regulations, and policies that set forth procedures to be employed by the merchant in transactions in which American Express cards are used. |
| 11 | Merchant Collusion |
| | The Merchant participated in fraudulent collusive activity. |
| 12 | PCI Data Security Standard Noncompliance |
| | The Merchant failed to comply with <i>Payment Card Industry (PCI) Data Security Standard</i> requirements. |
| 13 | Illegal Transactions |
| | The Merchant was engaged in illegal Transactions. |
| 14 | Identity Theft The Acquirer has determined that the identity of the listed Merchant or its principal owner(s) was unlawfully assumed for the purpose of unlawfully entering into a Merchant Agreement. |

One additional reason code may apply to Merchants listed in MATCH. Acquirers no longer may add Merchants to MATCH using the reason code in Table 11.5; however, this code still may appear in legacy MATCH reports.

Table 11.5—MATCH Reason Codes No Longer Available for Listing Purposes

| MATCH Reason Code | Description |
|-------------------------|---|
| 06 | Violation of Merchant Agreement |
| | The Merchant was in violation of a significant term or condition of the Merchant Agreement. As used herein, a significant term or condition means one that concerns the truthfulness of the Merchant or the commercial reasonableness of the Merchant's manner of doing business and does not mean a technical violation of the Merchant Agreement, such as one resulting in a minor financial dispute. |

Chapter 12 Omitted

This chapter has been omitted.

Chapter 13 Fraud Management Program (FMP)

This chapter describes the Fraud Management Program (FMP) Standards and applies to all MasterCard Customers, Service Providers, and Payment Facilitators.

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|---|----|----|---|
| 13.1.2 FMP Level 2 Non-Customer Reviews | 13 | 3- | 1 |

13.1 About FMP

The MasterCard Fraud Management Program (FMP) is a tool for assessing a MasterCard Customer's current capability to manage, anticipate, and protect against internal and external risks in the issuing and acquiring portfolio.

FMP also determines the effectiveness of existing fraud loss controls and other risk reduction measures and assists MasterCard Customers in identifying specific areas where such measures may be inadequate.

In addition, FMP provides industry best practices to support business growth by enhancing the overall operational efficiency and profitability of the issuing and acquiring portfolio while maintaining losses at an acceptable level.

FMP consists of three mandatory levels and one optional level. The three mandatory levels are Level 1 reviews for prospective MasterCard Principal Customers and MasterCard Affiliate Customers, Level 2 Non-Customer reviews, and Level 3 Customer reviews. A Maestro Customer identified by MasterCard as a Group 3 Issuer pursuant to the Maestro Issuer Loss Control Program may also be required to undergo a Level 3 Customer review. A Customer may also choose to participate in Level 4 Customer Consultative reviews. This chapter describes the Standards for each review level.

13.1.2 FMP Level 2 Non-Customer Reviews

The FMP Level 2 Non-Customer review is an annual review conducted for selected Service Providers and Payment Facilitators, at the sole discretion of Security and Risk Services staff.

MasterCard will examine the Service Provider's or Payment Facilitator's ability to support MasterCard Customers so that they can adhere to the minimum fraud loss control Program requirements described in Chapter 6 of this manual.

A Service Provider or Payment Facilitator that fails an FMP Level 2 Non-Customer review is subject to deregistration.

Appendix A Omitted

This chapter has been omitted.

Appendix B Formset Specifications

This appendix contains specifications for the interchange copy of MasterCard® Card Transaction formsets.

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|---|-----|
| B.1.1 Formset Physical Dimensions | B-1 |
| B.1.2 Number of Copies and Retention Requirements | B-1 |
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B.1 MasterCard Formset Specifications

A formset is a Transaction information document (TID) produced with a manual imprinter. This appendix describes the Standards for the interchange copy of Point-of-Sale (POS) Transaction, refund Transaction, Manual Cash Disbursement Transaction, and information formsets, including physical dimensions, weight, color, carbon paper, registration marks, numbering, and printing.

B.1.1 Formset Physical Dimensions

Formsets must be the size of a standard 80-column Card (3.250 inches x 7.375 inches, or 8.260 cm x 18.744 cm) or a standard 51-column Card (3.250 inches x 4.852 inches, or 8.260 cm x 12.332 cm), with an upper right-hand corner cut.

B.1.2 Number of Copies and Retention Requirements

Each formset must consist of at least two copies, one complete copy for the Merchant/Acquirer, and one complete copy for the customer. MasterCard recommends that the Merchant or the Acquirer process the copy signed by the Cardholder. If this is the only copy retained, the Merchant must hold the copy (microfilm or otherwise reproduced copy) for at least 13 months to satisfy the MasterCard retention requirement.

B.1.3 Paper Stock Characteristics

Formsets must be no less than 28-pound stock and no more than 103-pound stock, U.S. Region Standards.

B.1.4 Color of Interchange Copy

The color of the interchange copy of a formset must be manila or white if Card stock (for example, 95-pound stock, U.S. Region standards or heavier), and must be white if paper stock (for example, 28-pound stock, U.S. Region standards or heavier but less than 95-pound stock).

B.1.5 Carbon

The carbon paper used to imprint the interchange copy of a formset must be black and of optical character recognition (OCR) quality. All formsets ordered by Customers supplying formsets to Merchants must be manufactured so that the Account number cannot be identified on any carbons that may be discarded after a sales Transaction is completed. The following types of formsets are examples that comply with this rule:

- Carbonless formsets
- Carbon on the back formsets
- Formsets with carbons that are perforated in such a manner that no complete Account number remains on the carbon to be discarded

B.1.6 Registration Mark

If the interchange copy of an 80-column formset has a registration mark, then the registration mark must be preprinted and of uniform density of non-reflective (preferably black) ink. The stroke width of the mark must be 0.030 inches \pm 0.010 inches (0.0762 cm \pm 0.0254 cm), and the length of each leg of the mark, measured on its inner edge, must be at least 0.400 inches (1.017 cm). The mark must be aligned with the aligning edge with no visible skew (\pm 2 degrees).

B.1.6.1 Registration Mark Location

If the interchange copy of an 80-column formset has a registration mark, then the location of the registration mark in relation to the leading and aligning edges cannot vary from document to document more than \pm 0.050 inches (\pm 127 cm). The leading edge of the vertical leg of the registration mark shall be 2.40625 inches (6.116 cm) from the left edge of the interchange copy (with the stub removed) and the bottom edge of the horizontal leg shall be 0.625 inches (1.589 cm) from the bottom edge.

B.1.7 Formset Numbering

Each Acquirer must supply its Merchants with consecutively pre-numbered formsets with sequential reference numbers. Each reference number must consist of seven digits, with the seventh digit from the right being a Transaction code (the number "5" on POS Transaction slips, the number "6" on refund Transaction slips, and the number "7" on Manual Cash Disbursement Transaction slips), and must be in 7B font with nominal horizontal spacing of seven characters to the inch.

B.1.7.1 Formset Number Location

On an 80-column Card size formset, the sequential reference number must be located in the 0.500 inches (1.271 cm) clear band area at the top front of each copy of the form. The first (or low order) digit of the reference number must be a minimum of 1.4375 inches (3.653 cm) from the right-most edge of the formset to the beginning of that character; the seventh (or high order) digit must be a maximum of 2.625 inches (6.672 cm) from the right-most edge of the formset to the end of that character; and the centerline of the numbers must be 0.219 inches \pm 0.040 inches (0.557 cm \pm 0.102 cm) from the top of the formset.

B.1.8 Information Slip Specifications

Information slips provide the Cardholder with additional details related to a POS Transaction, refund Transaction, or Manual Cash Disbursement Transaction (herein, "financial Transactions"). The information slip must be the same size, weight, and color as all other MasterCard formsets.

B.2 Formset Printing Standards

The Standards listed below apply to the printing of formsets.

B.2.1 Financial Transaction Formsets

This section applies to the printing of the interchange copy of the MasterCard Card formsets for financial Transactions. Refer to section B.1.8 for printing requirements specific to information slips.

- 1. The reverse side of any interchange copy shall be blank.
- 2. The space reserved for imprinting on the interchange copy must remain clear of any printing. This space shall be not less than 3.125 inches (7.943 cm) long by 2.125 inches (5.401 cm) high lying horizontally across the top and commencing at the upper left-hand corner (with the stubs removed).
- 3. The interchange copies of formsets must have an area not less than 4.250 inches (10.802 cm) long and 0.500 inches (1.271 cm) high lying horizontally across the bottom and commencing at the lower right-hand corner, left clear of any printing.
- 4. This area shall be not less than 4.500 inches (11.437 cm) long and 0.625 inches (1.589 cm) high, and the balance of the area within 0.625 inches (1.589 cm) of the bottom shall be left clear of any magnetic ink character recognition (MICR) and OCR active printing or markings with the exception of MICR encoding.
- 5. The interchange copies of formsets must have an area not less than the length of the slip by 0.500 inches (1.271 cm) high lying horizontally across the top of the slip, left clear of any preprinting except for the sequential reference number on an 80-column slip and also discretionary data (located between 0.375 inches and 1.3125 inches [0.953 cm and 3.3359 cm] from the right-hand edge in 7B font).
- 6. If the formset has a registration mark, a square, formed by a clear band 1/8 inches (0.318 cm) from the external edges and tips of a minimum length registration mark and not less than 11/16 inches by 11/16 inches (1.747 cm x 1.747 cm), shall be left clear of any printing except for the registration mark.
- 7. The printing on the face of the copies of refund Transaction slips shall be in red ink. The printing on the face of the copies of POS Transaction and Manual Cash Disbursement Transaction slips must not be in red ink. MasterCard recommends that the printing on POS Transaction slips be in

either blue or black ink and on Manual Cash Disbursement slips in either green or black ink.

B.2.2 Information Slip Formsets

Following is a list of requirements for printing information slips:

- 1. The following areas shall be left clear of printing:
 - 0.500 inches (1.271 cm) high lying horizontally across the entire length of the top of the slip.
 - 4.500 inches (11.437 cm) long by 0.625 inches (1.589 cm) high lying horizontally across the bottom of the slip commencing at the lower right-hand corner.
 - 1.344 inches (3.415 cm) long by 0.375 inches (0.953 cm) high lying horizontally starting 4.875 inches (12.390 cm) from the left edge and 0.970 inches (2.468 cm) from the top edge of the slip.
 - 0.875 inches (2.224 cm) long by 0.375 inches (0.953 cm) high lying horizontally starting 6.219 inches (15.805 cm) from the left edge and 0.970 inches (2.468 cm) from the top edge of the slip.
 - 6.156 inches (15.647 cm) long by 0.375 inches (0.953 cm) high lying horizontally starting 0.375 inches (0.953 cm) from the left edge and 2.281 inches (5.798 cm) from the top edge.
 - 1.250 inches (3.177 cm) long by 0.375 inches (0.953 cm) high lying horizontally starting 6 inches (15.250 cm) from the left edge and 2.281 inches (5.798 cm) from the top edge.
- 2. MasterCard recommends using black ink for all printing.
- 3. For Transaction date identification, the information slip must contain a computer-printed date area. Enter the elements of the date in this area by indicating the sequence (for example, month-day-year) in English and, at the Acquirer's option, also in the local language.
- 4. For situations when the Transaction date is not available, each information slip will be preprinted with the expression, "Transaction date not available" in English and, at the Acquirer's option, also in the local language.
- 5. The reverse side shall be blank.

B.2.3 Imprinters

Each Customer is responsible for supplying to its Merchants conducting face-to-face POS Transactions, on such terms as may be agreed upon between them, and for maintaining at each Customer location that disburses cash to Cardholders, imprinters capable of producing a satisfactory imprint from a Card upon the interchange copy of a formset. The imprinter must contain a plate that will imprint on the interchange copy of the formset the name and number of the Merchant, or the name of the Customer disbursing the cash disbursement, and the city and state (or country, if the location is outside the United States) where the Transaction occurred.

Appendix C Omitted

This chapter has been omitted.

Appendix D Best Practices Guides

This appendix contains a description of the publications in the MasterCard "Best Practices" series and access instructions via MasterCard Connect TM .

D.1 Acquirers' Best Practices Guide

The *Acquirers' Best Practices Guide* covers critical issues of which Acquirers and their Merchants should be aware in order to recognize and to combat fraud. It reviews the entire process, from signing Merchants, to training them, to ongoing monitoring. The guide also describes common fraudulent schemes to help Acquirers recognize illegal activity in their businesses.

Appendix E Omitted

This chapter has been omitted.

Definitions

The following terms used in this manual have the meanings set forth below.

Access Device

A device other than a Card that uses at least one Payment Application to provide access to an Account in compliance with the Standards. A Contactless Payment Device is a type of Access Device. A Cirrus Access Device, Maestro Access Device, and MasterCard Access Device is each an Access Device. *Also see* Mobile Payment Device.

Account

An account maintained by or on behalf of a Cardholder by an Issuer for the processing of Transactions, and which is identified with an IIN/BIN designated by the Corporation in its routing tables for routing to the Interchange System. See Cirrus Account, Maestro Account, MasterCard Account.

Acquirer

A Customer in its capacity as an acquirer of a Transaction.

Activity(ies)

The undertaking of any act that can be lawfully undertaken only pursuant to License by the Corporation.

Affiliate Customer, Affiliate

A Customer that participates indirectly in Activity through the Sponsorship of a Principal or, solely with respect to MasterCard Activity, through the Sponsorship of an Association. An Affiliate may not Sponsor any other Customer.

Association Customer, Association

A MasterCard Customer that participates directly in MasterCard Activity using its assigned BINs and which may Sponsor one or more MasterCard Affiliates but may not directly issue MasterCard Cards or acquire MasterCard Transactions without the express prior written consent of the Corporation.

Automated Teller Machine (ATM)

An unattended self-service POI device that performs basic banking functions such as accepting deposits, cash withdrawals, ordering transfers among accounts, loan payments and account balance inquiries.

ATM Owner Agreement

An agreement between an ATM owner and a Customer that sets forth the terms pursuant to which the ATM accepts Cards.

ATM Terminal

An ATM that enables a Cardholder to effect a Transaction with a Card in accordance with the Standards.

ATM Transaction

A cash withdrawal effected at an ATM Terminal with a Card and processed through the MasterCard ATM Network. An ATM Transaction is identified with MCC 6011 (Automated Cash Disbursements—Customer Financial Institution)

Card

A card issued by a Customer pursuant to License and in accordance with the Standards and that provides access to an Account. Unless otherwise stated herein, Standards applicable to the use and acceptance of a Card are also applicable to an Access Device and, in a Card-not-present environment, an Account. A Cirrus Card, Maestro Card, and MasterCard Card is each a Card.

Cardholder

The authorized user of a Card or Access Device issued by a Customer.

Chip Card (Smart Card, Integrated Circuit Card, IC Card, or ICC)

A Card with an embedded EMV-compliant chip containing memory and interactive capabilities used to identify and store additional data about a Cardholder, an Account, or both.

Chip Transaction

A Contact Chip Transaction or a Contactless Chip Transaction.

Cirrus Access Device

An Access Device that uses at least one Cirrus Payment Application to provide access to a Cirrus Account when used at an ATM Terminal or PIN-based In-Branch Terminal.

Cirrus Account

An account eligible to be a Cirrus Account, as set forth in Rule 6.1.3.2 of the *MasterCard Rules* manual, and identified with a BIN/IIN associated with a Portfolio designated by the Corporation as a Cirrus Portfolio in its routing tables.

Cirrus Card

A Card that provides access to a Cirrus Account.

Cirrus Customer

A Customer that has been granted a Cirrus License in accordance with the Standards.

Cirrus Payment Application

A Payment Application that stores Cirrus Account data.

Contact Chip Transaction

A Transaction in which data is exchanged between the Chip Card and the POI Terminal through the reading of the chip using the contact interface, in conformance with EMV specifications.

Contactless Chip Transaction, Contactless Transaction

A Transaction in which data is exchanged between the Chip Card or Access Device and the POI Terminal through the reading of the chip using the contactless interface, by means of radio frequency communications. MasterCard *PayPass* Magnetic Stripe Profile Transactions, MasterCard *PayPass*-M/Chip Transactions and Maestro *PayPass* Transactions are Contactless Chip Transactions. "Contactless Transaction" is an alternative term for Contactless Chip Transaction.

Contactless Payment Device

A means other than a Card by which a Cardholder may access an Account at a POI Terminal in accordance with the Standards. A Contactless Payment Device is a type of Access Device that exchanges data with the POI Terminal by means of radio frequency communications.

Corporation

MasterCard International Incorporated, Maestro International Inc., and their subsidiaries and affiliates. As used herein, Corporation also means the President and Chief Executive Officer of MasterCard International Incorporated, or his or her designee, or such officers or other employees responsible for the administration and/or management of a program, service, product, system or other function. Unless otherwise set forth in the Standards, and subject to any restriction imposed by law or regulation, or by the Board of Directors of MasterCard International Incorporated, or by the MasterCard International Incorporated Certificate of Incorporation or the MasterCard Incorporated Certificate of Incorporation (as each such Certificate of Incorporation may be amended from time to time), each such person is authorized to act on behalf of the Corporation and to so act in his or her sole discretion.

Cross-border Transaction

A Transaction that originates via a Point-of-Interaction (POI) Terminal located in a different country from the country in which the Card was issued.

Customer

A financial institution or other entity that has been approved for Participation. A Customer may be a Principal, Association, or Affiliate. Also see Cirrus Customer, Maestro Customer, MasterCard Customer, Member.

Data Storage Entity (DSE)

A Service Provider that performs any one or more of the services described in Rule 7.1 of the *MasterCard Rules* manual as DSE Program Service.

Digital Wallet Operator (DWO)

A Service Provider that performs any one or more of the services described in Rule 7.1 of the *MasterCard Rules* manual as DWO Program Service. *Also see* Staged Digital Wallet Operator and Pass-through Digital Wallet Operator.

Digital Wallet Operator Mark, DWO Mark

A mark identifying a particular Pass-through Digital Wallet and/or Staged Digital Wallet, and which may be displayed at the POI to denote that a retailer, or any other person, firm, or corporation, accepts payments effected by means of that Pass-through Digital Wallet and/or Staged Digital Wallet. A "Staged DWO Mark" and a "Pass-through DWO Mark" are both types of DWO Marks.

Domestic Transaction

See Intracountry Transaction.

Dual Interface Hybrid POS Terminal

A Hybrid POS Terminal that is capable of processing Contactless Chip Transactions by means of its contactless interface and Contact Chip Transactions by means of its contact interface. Dual Interface Hybrid POS Terminals include, but are not limited to, those which support mobile contactless chip Transactions by means of near field communications (NFC) technology.

Hybrid ATM Terminal

An ATM Terminal that:

- 1. Is capable of processing both chip Transactions and magnetic stripe Transactions;
- 2. Has the equivalent hardware, software, and configuration as a Terminal with full EMV Level 1 and Level 2 type approval status with regard to the chip technical specifications; and
- 3. Has satisfactorily completed the Corporation's Terminal Integration Process (TIP) in the appropriate environment of use.

Hybrid MPOS Terminal

An MPOS Terminal that meets all of the criteria of a Hybrid POS Terminal.

Hybrid PIN-based In-Branch Terminal

A PIN-based In-Branch Terminal that:

- 1. Is capable of processing both chip Transactions and magnetic stripe Transactions;
- 2. Has the equivalent hardware, software, and configuration as a Terminal with full EMV Level 1 and Level 2 type approval status with regard to the chip technical specifications; and
- 3. Has satisfactorily completed the Corporation's Terminal Integration Process (TIP) in the appropriate environment of use.

Hybrid POI Terminal

A POI Terminal, including any POS or MPOS Terminal ("Hybrid POS Terminal", "Hybrid MPOS Terminal"), ATM Terminal ("Hybrid ATM Terminal"), or PIN-based In-Branch Terminal ("Hybrid PIN-based In-Branch Terminal"), that:

- 1. Is capable of processing both chip Transactions and magnetic stripe Transactions;
- 2. Has the equivalent hardware, software, and configuration as a Terminal with full EMV Level 1 and Level 2 type approval status with regard to the chip technical specifications; and
- 3. Has satisfactorily completed the Corporation's Terminal Integration Process (TIP) in the appropriate environment of use.

Independent Sales Organization (ISO)

A Service Provider that performs any one or more of the services described in Rule 7.1 of the *MasterCard Rules* manual as ISO Program Service.

Interchange System

The computer hardware and software operated by and on behalf of the Corporation for the routing, processing, and settlement of Transactions including, without limitation, the MasterCard Worldwide Network, the MasterCard ATM Network, the Dual Message System, the Single Message System, the Global Clearing Management System (GCMS), and the Settlement Account Management (SAM) system.

Interregional Transaction

A Transaction that originates via a POI Terminal located in a different Region from the Region in which the Card was issued.

Intracountry Transaction

A Transaction that originates via a POI Terminal located in the same country as the country in which the Card was issued. A Transaction conducted with a Card bearing one or more of the Brand Marks, either alone or in combination with the marks of another payment scheme, and processed as a Transaction, as shown by the Card type identification in the Transaction record, via either the Interchange System or a different network, qualifies as an Intracountry Transaction. "Domestic Transaction" is an alternative term for Intracountry Transaction.

Intraregional Transaction

A Transaction that occurs at a POI Terminal located in a different country from the country in which the Card was issued, within the same Region.

Issuer

A Customer in its capacity as an issuer of a Card or Account.

License, Licensed

The contract between the Corporation and a Customer granting the Customer the right to use one or more of the Marks in accordance with the Standards. To be "Licensed" means to have such a right pursuant to a License.

Maestro

Maestro International Incorporated, a Delaware U.S.A. corporation or any successor thereto.

Maestro Access Device

An Access Device that uses at least one Maestro Payment Application to provide access to a Maestro Account when used at a POI Terminal.

Maestro Account

An account eligible to be a Maestro Account, as set forth in Rule 6.1.2.1 of the *MasterCard Rules* manual, and identified with a BIN/IIN associated with a Portfolio designated by the Corporation as a Maestro Portfolio in its routing tables.

Maestro Card

A Card that provides access to a Maestro Account.

Maestro Customer

A Customer that has been granted a Maestro License in accordance with the Standards.

Maestro Payment Application

A Payment Application that stores Maestro Account data.

Maestro Transaction

A Transaction effected with a Maestro Access Device or Account.

Manual Cash Disbursement Transaction

A disbursement of cash performed upon the acceptance of a MasterCard Card or, at a PIN-based In-Branch Terminal, a Maestro or Cirrus Card by a Customer financial institution teller. A Manual Cash Disbursement Transaction is identified with MCC 6010 (Manual Cash Disbursements—Customer Financial Institution).

Marks

Marks

The names, logos, trade names, logotypes, trademarks, service marks, trade designations, and other designations, symbols, and marks that the Corporation owns, manages, licenses, or otherwise Controls and makes available for use by Customers and other authorized entities in accordance with a License. A "Mark" means any one of the Marks.

MasterCard

MasterCard International Incorporated, a Delaware U.S.A. corporation.

MasterCard Access Device

An Access Device that uses at least one MasterCard Payment Application to provide access to a MasterCard Account when used at a POI Terminal.

MasterCard Account

Any type of account (credit, debit, prepaid, commercial, etc.) identified as a MasterCard Account with a primary account number (PAN) that begins with a BIN in the range of 510000 to 559999.

MasterCard-branded Application Identifier (AID)

Any of the Corporation's EMV chip application identifiers for MasterCard, Maestro, and Cirrus Payment Applications as defined in the *M/Chip Requirements* manual.

MasterCard Card

A Card that provides access to a MasterCard Account.

MasterCard Customer

A Customer that has been granted a MasterCard License in accordance with the Standards. *Also see* Member.

MasterCard Europe

MasterCard Europe sprl, a Belgian private limited liability (company).

MasterCard Incorporated

MasterCard Incorporated, a Delaware U.S.A. corporation.

MasterCard Payment Application

A Payment Application that stores MasterCard Account data.

MasterCard PayPass Magnetic Stripe Profile Transaction

A Contactless Chip Transaction in which the POS Terminal receives static and dynamic data from the chip and constructs messages that can be transported in a standard magnetic stripe message format, in compliance with the Standards.

MasterCard PayPass-M/Chip Transaction

A Contactless Chip Transaction in which the POS Terminal and the chip exchange data, enabling the chip to approve the Transaction offline on the Issuer's behalf or to request online authorization from the Issuer, in compliance with the Standards.

MasterCard Transaction

A Transaction effected with a MasterCard Access Device or Account.

Member, Membership

A financial institution or other entity that is approved to be a MasterCard Customer in accordance with the Standards and which, as a MasterCard Customer, has been granted membership ("Membership") in and has become a member ("Member") of the Corporation. "Membership" also means "Participation".

Merchant

A retailer, or any other person, firm or corporation that, pursuant to a Merchant Agreement, agrees to accept Cards when properly presented.

Merchant Agreement

An agreement between a Merchant and a Customer that sets forth the terms pursuant to which the Merchant is authorized to accept Cards.

Mobile Payment Device

A Cardholder-controlled mobile phone containing a Payment Application compliant with the Standards, and which uses an integrated keyboard and screen to access an Account. A Mobile Payment Device is a type of Contactless Payment Device.

Mobile POS (MPOS) Terminal

An MPOS Terminal enables a mobile device to be used as a POS Terminal. Card "reading" and software functionality that meets the Corporation's requirements may reside within the mobile device, on a server accessed by the mobile device, or in a separate accessory connected (such as via Bluetooth or a USB port) to the mobile device. The mobile device may be any multi-purpose mobile computing platform, including, by way of example and not limitation, a feature phone, smart phone, tablet, or Personal Digital Assistant (PDA).

Participation

The right to participate in Activity granted to a Customer by the Corporation. For a MasterCard Customer, Participation is an alternative term for Membership.

Pass-through Digital Wallet

Functionality by which the Pass-through Digital Wallet Operator stores MasterCard or Maestro Account data provided by the Cardholder to the DWO for purposes of effecting a payment initiated by the Cardholder to a Merchant or Sub-merchant, and upon the performance of a Transaction, transfers the Account data to the Merchant or Sub-merchant or to its Acquirer or the Acquirer's Service Provider.

Pass-through Digital Wallet Operator (DWO)

The operator of a Pass-through Digital Wallet.

Payment Application

The magnetic stripe or M/Chip functionality that stores Account data on or in a Card or Contactless Payment Device and enables the reading and/or transmission of such data to a POI Terminal via a contact or contactless interface to effect a Transaction, in accordance with the Standards. A MasterCard Payment Application, Maestro Payment Application, and Cirrus Payment Application is each a Payment Application.

Payment Facilitator

A Merchant registered by an Acquirer to facilitate Transactions on behalf of Sub-merchants. Unless otherwise stated herein, any reference to Merchants encompasses Payment Facilitators and Sub-merchants. The Standards applicable to a Merchant are applicable to a Payment Facilitator and a Sub-merchant.

PIN-based In-Branch Terminal

An attended POI device, located on the premises of a Customer or other financial institution designated as its authorized agent by the Corporation, that facilitates a cash withdrawal Transaction by a Cardholder.

PIN-based In-Branch Terminal Transaction

A cash withdrawal Transaction effected by a financial institution teller at a PIN-based In-Branch Terminal and identified with MCC 6010 (Manual Cash Disbursements—Customer Financial Institution).

Point of Interaction (POI)

The location at which a Transaction occurs, as determined by the Corporation.

POI Terminal

Any attended or unattended POI device that meets the Corporation requirements and that permits a Cardholder to effect a Transaction in accordance with the Standards. *See* ATM Terminal, PIN-based In-Branch Terminal, POS Terminal.

Portfolio

All Cards issued bearing the same major industry identifier, BIN/IIN, and any additional digits that uniquely identify Cards for routing purposes.

Point-of-Sale (POS) Terminal

An attended or unattended POI device located in or at a Merchant's premises that enables a Cardholder to effect a Transaction for the purchase of products or services sold by such Merchant with an Access Device, in accordance with the POS Terminal security and other applicable Standards.

POS Transaction

The sale of products or services by a Merchant to a Cardholder pursuant to acceptance of a Card by the Merchant. A POS Transaction may be a Card-present Transaction taking place in a face-to-face environment or at an unattended POS Terminal, or a Card-not-present Transaction taking place in a non-face-to-face environment (for example, an e-commerce, mail order, phone order, or recurring payment Transaction).

Principal Customer, Principal

A Customer that participates directly in Activity using its assigned BINs/IINs and which may Sponsor one or more Affiliates.

Program

A Customer's Card issuing program, Merchant acquiring program, ATM Terminal acquiring program, or all.

Program Services

Any service described in Rule 7.1 of the *MasterCard Rules* manual or elsewhere in the Standards that directly or indirectly supports a Program and regardless of whether the entity providing the service is registered as a Service Provider of one or more Customers. The Corporation has the sole right to determine whether a service is a Program Service.

Region

A geographic region as defined by the Corporation from time to time. *See* Appendix A of the *MasterCard Rules* manual.

Rules

The Standards set forth in this manual.

Service Provider

A person that performs Program Service. The Corporation has the sole right to determine whether a person is or may be a Service Provider and if so, the category of Service Provider. A Service Provider is an agent of the Customer that receives or otherwise benefits from Program Service, whether directly or indirectly, performed by such Service Provider.

Service Provider Registration Facilitator

A Service Provider that performs Service Provider identification and registration services.

Settlement

The process by which Customers exchange financial data and value resulting from Transactions.

Settlement Date

Date that funds are committed for settlement between an Acquirer and an Issuer.

Sponsor, Sponsorship

The relationship described in the Standards between a Principal or Association and an Affiliate that engages in Activity indirectly through the Principal or Association. In such event, the Principal or Association is the Sponsor of the Affiliate and the Affiliate is Sponsored by the Principal or Association. "Sponsorship" means the Sponsoring of a Customer.

Staged Digital Wallet

Functionality by which the Staged Digital Wallet Operator effects a two-stage payment to a retailer to complete a purchase initiated by a consumer, as follows:

- Payment stage—In the payment stage, the Staged DWO pays the retailer by means of:
 - A transaction conducted using MasterCard or Maestro Account or other account data assigned to the consumer by the DWO or by an issuer, acting for or on behalf of the DWO (herein, a "consumer-assigned payment account"); or
 - A funds transfer to an account held by the Staged DWO for or on behalf of the retailer.
- **Funding stage**—In the funding stage, the Staged DWO uses MasterCard or Maestro Account or other account data provided to the Staged DWO by the consumer (herein, the "funding account") to perform a transaction that funds or reimburses the Staged Digital Wallet.

Neither the retailer nor, if the retailer is a Merchant, its Acquirer or the Acquirer's Service Provider receives MasterCard or Maestro Account data and other information identifying the network brand and payment card issuer for the funding account.

Staged Digital Wallet Operator (DWO)

The operator of a Staged Digital Wallet.

Standards

The Amended and Restated Certificate of Incorporation and the bylaws, operating rules, regulations, policies, and procedures of the Corporation, including but not limited to any manuals, guides or bulletins, as may be amended from time to time.

Stand-In Parameters

A set of authorization requirements established by the Corporation or the Issuer that are accessed by the Interchange System using the Stand-In Processing Service to determine the appropriate responses to authorization requests.

Stand-In Processing Service

A service offered by the Corporation in which the Interchange System authorizes or declines Transactions on behalf of and uses Stand-In Parameters provided by the Issuer (or in some cases, by the Corporation). The Stand-In Processing Service responds only when the Issuer is unavailable, the Transaction cannot be delivered to the Issuer, or the Issuer exceeds the response time parameters set by the Corporation.

Sub-merchant

A merchant that, pursuant to an agreement with a Payment Facilitator, is authorized to accept Cards when properly presented.

Terminal

An ATM Terminal or PIN-based In-Branch Terminal.

Third Party Processor (TPP)

A Service Provider that performs any one or more of the services described in Rule 7.1 of the *MasterCard Rules* manual as TPP Program Service.

Transaction

A financial transaction arising from the proper acceptance of an Access Device or Account at a Card acceptance location and identified in messages with a Card Program identifier. *See* ATM Transaction, Manual Cash Disbursement Transaction, Merchandise Transaction, POS Transaction, Shared Deposit Transaction.

Volume

The aggregate financial value of a group of Transactions. "Volume" does not mean the number of Transactions.