

# **Express Platform Required Terminal Settings**

Required Configuration Settings for Payment Scenarios on the Express Processing Platform

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## Express Required Terminal Settings Guide

### Express Terminal Settings Guidelines

This document is intended to guide you in selecting the correct terminal settings to include in your Express transaction request. This document is broken out based on the industry type(s) supported.

- Your integration may still fall into multiple industries based on if the cardholder is present or not when the transaction takes place.
- Make sure to work with your Integration Consultant to certify that you are using the correct settings based on your use case.
- Below are important items to keep in mind through the integration process:
  1. Your Integration Consultant may request you provide different settings than what is outlined for the specific industry.
  2. If processing a linked-return you **need** to set the Cardholder Input Code as “4/ManualKeyed”. All other terminal settings should match the original transaction.
  3. **Important Note:** If processing a **CreditCardAuthorizationCompletion** for a triPOS EMV Authorization you **need** to set the **CardInputCode** and **TerminalCapabilityCode** appropriately based on the entry mode and capabilities (for example – Magstripe, Contactless, EMV).

## Retail Transaction Processing

### Retail Swiped

A Retail Swiped transaction involves a cardholder physically presenting a card for payment at a merchant location, and the card is swiped using the merchant point of sale application.

Parameter	Value	Enumeration
CardholderPresentCode	2	Present
CardInputCode*	2*	MagstripeRead*
CardPresentCode	2	Present
CVVPresenceCode	0	UseDefault
MarketCode	7	Retail
MotoECICode	1	NotUsed
TerminalCapabilityCode*	3*	MagstripeReader*
TerminalEnvironmentCode	2	LocalAttended
TerminalType	1	PointOfSale
Other Parameters		Input Values
TerminalID		Element-assigned TerminalID (feel free to use 0001 just for testing purposes)
ReferenceNumber		unique numeric value <= 16 digits recommended
TicketNumber		unique numeric value <= 6 digits recommended
PartialApprovedFlag	1	True (required: Retail applications must support partial approvals)
TerminalSerialNumber		Device serial number submitted if sending encrypted card fields
DuplicateOverrideFlag (if handling duplicates)	1	True (resend transaction with DuplicateOverrideFlag set to True (1) if ExpressResponseCode=22 or 23)

\* For Completions of prior triPOS EMV Authorizations, use appropriate Chip Read CardInputCode/TerminalCapabilityCode

### Retail Keyed (due to Magnetic Stripe Failure)

A Retail Keyed (due to Magnetic Stripe Failure) transaction involves a cardholder physically presenting a card for payment at a merchant location, and the card is swiped using the merchant point of sale application.

However, if the swipe fails for any reason, the card must be manually keyed using the merchant point of sale application.

Parameter	Value	Enumeration
CardholderPresentCode	2	Present
CardInputCode	5	ManualKeyedMagstripeFailure (may use 4/ManualKeyed if all trans are keyed)
CardPresentCode	2	Present
CVVPresenceCode	0, 1, 2	UseDefault, NotProvided, Provided (depending on submission)
MarketCode	7	Retail
MotoECICode	1	NotUsed
TerminalCapabilityCode	3	MagstripeReader
TerminalEnvironmentCode	2	LocalAttended
TerminalType	1	PointOfSale
Other Parameters		Input Values
TerminalID		Element-assigned TerminalID (feel free to use 0001 just for testing purposes)
ReferenceNumber		unique numeric value <= 16 digits recommended
TicketNumber		unique numeric value <= 6 digits recommended
BillingZipcode		e.g. 87654 (zip match required to qualify for Retail Key Entry)
CVV		e.g. 123
PartialApprovedFlag	1	True (required: Retail applications must support partial approvals)
TerminalSerialNumber		Device serial number submitted if sending encrypted card fields
DuplicateOverrideFlag (if handling duplicates)	1	True (resend transaction with DuplicateOverrideFlag set to True (1) if ExpressResponseCode=22 or 23)

## Retail Swiped (Self-Service Kiosk)

A Retail Swiped (Self-Service Kiosk) transaction involves a cardholder physically presenting a card for payment at a merchant kiosk, and the card is swiped using the merchant kiosk application.

Parameter	Value	Enumeration
CardholderPresentCode	2	Present
CardInputCode*	2*	MagstripeRead*
CardPresentCode	2	Present
CVVPresenceCode	0	UseDefault
MarketCode	7	Retail
MotoECICode	1	NotUsed
TerminalCapabilityCode*	3*	MagstripeReader*
TerminalEnvironmentCode	3	LocalUnattended
TerminalType	1	PointOfSale
Other Parameters		Input Values
TerminalID		Element-assigned TerminalID (feel free to use 0001 just for testing purposes)
ReferenceNumber		unique numeric value <= 16 digits recommended
TicketNumber		unique numeric value <= 6 digits recommended
PartialApprovedFlag	1	True (required: Retail applications must support partial approvals)
TerminalSerialNumber		Device serial number submitted if sending encrypted card fields
DuplicateOverrideFlag (if handling duplicates)	1	True (resend transaction with DuplicateOverrideFlag set to True (1) if ExpressResponseCode=22 or 23)

\* For Completions of prior triPOS EMV Authorizations, use appropriate Chip Read CardInputCode/TerminalCapabilityCode.

## Retail Contactless Magstripe Read

A Retail Contactless Magstripe transaction involves a cardholder physically presenting a card for payment at a merchant location, and the contactless card or device is tapped at the merchant point of sale PINpad to obtain the track data.

Parameter	Value	Enumeration
CardholderPresentCode	2	Present
CardInputCode	3	ContactlessMagstripeRead
CardPresentCode	2	Present
CVVPresenceCode	0	UseDefault
MarketCode	7	Retail
MotoECICode	1	NotUsed
TerminalCapabilityCode	4	ContactlessMagstripeReader
TerminalEnvironmentCode	2	LocalAttended
TerminalType	1	PointOfSale
Other Parameters		Input Values
TerminalID		Element-assigned TerminalID (feel free to use 0001 just for testing purposes)
ReferenceNumber		unique numeric value <= 16 digits recommended
TicketNumber		unique numeric value <= 6 digits recommended
PartialApprovedFlag	1	True (required: Retail applications must support partial approvals)
TerminalSerialNumber		Device serial number submitted if sending encrypted card fields
DuplicateOverrideFlag (if handling duplicates)	1	True (resend transaction with DuplicateOverrideFlag set to True (1) if ExpressResponseCode=22 or 23)

## Retail Mobile Swiped

A Retail Mobile Swiped transaction involves a cardholder physically presenting a card for payment at a merchant location, and the card is swiped using the merchant mobile point of sale application.

Parameter	Value	Enumeration
CardholderPresentCode	2	Present
CardInputCode*	2*	MagstripeRead*
CardPresentCode	2	Present
CVVPresenceCode	0	UseDefault
MarketCode	7	Retail
MotoECICode	1	NotUsed
TerminalCapabilityCode*	3*	MagstripeReader*
TerminalEnvironmentCode	2	LocalAttended
TerminalType	7	Mobile
Other Parameters		Input Values
TerminalID		Element-assigned TerminalID (feel free to use 0001 just for testing purposes)
ReferenceNumber		unique numeric value <= 16 digits recommended
TicketNumber		unique numeric value <= 6 digits recommended
PartialApprovedFlag	1	True (required: Retail applications must support partial approvals)
TerminalSerialNumber		Device serial number submitted if sending encrypted card fields
DuplicateOverrideFlag (if handling duplicates)	1	True (resend transaction with DuplicateOverrideFlag set to True (1) if ExpressResponseCode=22 or 23)

\* For Completions of prior triPOS EMV Authorizations, use appropriate Chip Read CardInputCode/TerminalCapabilityCode.

## Retail and Subsequent Card Tokenization

A Retail transaction where the card is then immediately tokenized for future single Card-on-File transactions or ongoing Recurring transactions should submit the following settings.

Parameter	Value	Enumeration
CardholderPresentCode	2	Present
CardInputCode*	2, 5	MagstripeRead, ManualKeyedMagstripeFailure
CardPresentCode	2	Present
CVVPresenceCode	0	UseDefault
MarketCode	7	Retail
MotoECICode	1	NotUsed
TerminalCapabilityCode*	3	MagstripeReader
TerminalEnvironmentCode	2	LocalAttended
TerminalType	1	PointOfSale
PaymentType	1, 2, 3, 4	Recurring, Installment, CardHolderInitiated, CredentialsOnFile
SubmissionType	1	Initial
Other Parameters		Input Values
TerminalID		Element-assigned TerminalID (feel free to use 0001 just for testing purposes)
ReferenceNumber		unique numeric value <= 16 digits recommended
TicketNumber		unique numeric value <= 6 digits recommended
PartialApprovedFlag	1	True (required: Retail applications must support partial approvals)
TerminalSerialNumber		Device serial number submitted if sending encrypted card fields
DuplicateOverrideFlag (if handling duplicates)	1	True (resend transaction with DuplicateOverrideFlag set to True (1) if ExpressResponseCode=22 or 23)
NetworkTransactionID		Response parameter only. Store this response value for inclusion on next Card-on-File or Recurring transaction submission.

\* For Completions of prior triPOS EMV Authorizations, use appropriate Chip Read CardInputCode/TerminalCapabilityCode.

## Restaurant Transaction Processing

### Restaurant Swiped

A Restaurant Swiped transaction involves a cardholder physically presenting a card for payment at a merchant location, and the card is swiped using the merchant point of sale application.

Parameter	Value	Enumeration
CardholderPresentCode	2	Present
CardInputCode*	2*	MagstripeRead*
CardPresentCode	2	Present
CVVPresenceCode	0	UseDefault
MarketCode	4	FoodRestaurant
MotoECICode	1	NotUsed
TerminalCapabilityCode*	3*	MagstripeReader*
TerminalEnvironmentCode	2	LocalAttended
TerminalType	1	PointOfSale
Other Parameters		Input Values
TerminalID		Element-assigned TerminalID (feel free to use 0001 just for testing purposes)
ReferenceNumber		unique numeric value <= 16 digits recommended
TicketNumber		unique numeric value <= 6 digits recommended
PartialApprovedFlag	1	True (required: Retail applications must support partial approvals)
TerminalSerialNumber		Device serial number submitted if sending encrypted card fields
DuplicateOverrideFlag (if	1	True (resend transaction with DuplicateOverrideFlag set to True (1) if

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handling duplicates)	ExpressResponseCode=22 or 23)
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\* For Completions of prior triPOS EMV Authorizations, use appropriate Chip Read CardInputCode/TerminalCapabilityCode.

## Restaurant Keyed (due to Magnetic Stripe Failure)

A Restaurant Keyed (due to Magnetic Stripe Failure) transaction involves a cardholder physically presenting a card for payment at a merchant location, and the card is swiped using the merchant point of sale application. However, if the swipe fails for any reason, the card must be manually keyed using the merchant point of sale application.

Parameter	Value	Enumeration
CardholderPresentCode	2	Present
CardInputCode	5	ManualKeyedMagstripeFailure (may use 4/ManualKeyed if all trans are keyed)
CardPresentCode	2	Present
CVVPresenceCode	0, 1, 2	UseDefault, NotProvided, Provided (depending on submission)
MarketCode	4	FoodRestaurant
MotoECICode	1	NotUsed
TerminalCapabilityCode	3	MagstripeReader
TerminalEnvironmentCode	2	LocalAttended
TerminalType	1	PointOfSale
Other Parameters		Input Values
TerminalID		Element-assigned TerminalID (feel free to use 0001 just for testing purposes)
ReferenceNumber		unique numeric value <= 16 digits recommended
TicketNumber		unique numeric value <= 6 digits recommended
BillingZipcode		e.g. 87654 (zip match required to qualify for Retail Key Entry)
CVV		e.g. 123
PartialApprovedFlag	1	True (required: Retail applications must support partial approvals)
TerminalSerialNumber		Device serial number submitted if sending encrypted card fields
DuplicateOverrideFlag (if handling duplicates)	1	True (resend transaction with DuplicateOverrideFlag set to True (1) if ExpressResponseCode=22 or 23)

## Restaurant Keyed (Card-Not-Present Phone)

A Restaurant Keyed (Card-Not-Present/Phone) transaction involves a cardholder calling a merchant location and providing a card number over the phone. The merchant then keys the card number using the merchant point of sale application.

Parameter	Value	Enumeration
CardholderPresentCode	5	PhoneOrder
CardInputCode	4	ManualKeyed
CardPresentCode	3	NotPresent
CVVPresenceCode	0, 1, 2	UseDefault, NotProvided, Provided (depending on submission)
MarketCode	4	FoodRestaurant
MotoECICode	2	Single (Single used for MoTo only)
TerminalCapabilityCode	5	KeyEntered
TerminalEnvironmentCode	2	LocalAttended
TerminalType	3	MOTO
Other Parameters		Input Values
TerminalID		Element-assigned TerminalID (feel free to use 0001 just for testing purposes)
ReferenceNumber		unique numeric value <= 16 digits recommended
TicketNumber		unique numeric value <= 6 digits recommended
BillingAddress1		e.g. 123 Main Street
BillingZipcode		e.g. 87654
CVV		e.g. 123

PartialApprovedFlag	1 or 0	True or False (optional)
TerminalSerialNumber		Device serial number submitted if sending encrypted card fields
DuplicateOverrideFlag (if handling duplicates)	1	True (resend transaction with DuplicateOverrideFlag set to True (1) if ExpressResponseCode=22 or 23)

## Restaurant Contactless Magstripe Read

A Restaurant Contactless Magstripe transaction involves a cardholder physically presenting a card for payment at a merchant location, and the contactless card or device is tapped at the merchant point of sale PINpad to obtain the track data.

Parameter	Value	Enumeration
CardholderPresentCode	2	Present
CardInputCode	3	ContactlessMagstripeRead
CardPresentCode	2	Present
CVVPresenceCode	0	UseDefault
MarketCode	4	FoodRestaurant
MotoECICode	1	NotUsed
TerminalCapabilityCode	4	ContactlessMagstripeReader
TerminalEnvironmentCode	2	LocalAttended
TerminalType	1	PointOfSale
Other Parameters		Input Values
TerminalID		Element-assigned TerminalID (feel free to use 0001 just for testing purposes)
ReferenceNumber		unique numeric value <= 16 digits recommended
TicketNumber		unique numeric value <= 6 digits recommended
PartialApprovedFlag	1	True (required: Retail applications must support partial approvals)
TerminalSerialNumber		Device serial number submitted if sending encrypted card fields
DuplicateOverrideFlag (if handling duplicates)	1	True (resend transaction with DuplicateOverrideFlag set to True (1) if ExpressResponseCode=22 or 23)

## Restaurant and Subsequent Card Tokenization

A Restaurant transaction where the card is then immediately tokenized for future single Card-on-File transactions or ongoing Recurring transactions should submit the following settings.

Parameter	Value	Enumeration
CardholderPresentCode	2	Present
CardInputCode*	2, 5	MagstripeRead, ManualKeyedMagstripeFailure
CardPresentCode	2	Present
CVVPresenceCode	0	UseDefault
MarketCode	4	FoodRestaurant
MotoECICode	1	NotUsed
TerminalCapabilityCode*	3	MagstripeReader
TerminalEnvironmentCode	2	LocalAttended
TerminalType	1	PointOfSale
PaymentType	1, 2, 3, 4	Recurring, Installment, CardHolderInitiated (most common), CredentialsOnFile
SubmissionType	1	Initial
Other Parameters		Input Values
TerminalID		Element-assigned TerminalID (feel free to use 0001 just for testing purposes)
ReferenceNumber		unique numeric value <= 16 digits recommended
TicketNumber		unique numeric value <= 6 digits recommended
PartialApprovedFlag	1	True (required: Retail applications must support partial approvals)
TerminalSerialNumber		Device serial number submitted if sending encrypted card fields

DuplicateOverrideFlag (if handling duplicates)	1	True (resend transaction with DuplicateOverrideFlag set to True (1) if ExpressResponseCode=22 or 23)
NetworkTransactionID		Response parameter only. Store this response value for inclusion on next Card-on-File or Recurring transaction submission.

\* For Completions of prior triPOS EMV Authorizations, use appropriate Chip Read CardInputCode/TerminalCapabilityCode.

## Direct Marketing Transaction Processing

### Direct Marketing Keyed (Card-Not-Present Mail/Phone) (No Card Tokenization)

A Direct Marketing (Card-Not-Present Mail/Phone) transaction involves a cardholder calling a merchant location and providing a card number over the phone. The merchant then keys the card number using the merchant point of sale application.

Parameter	Value	Enumeration
CardholderPresentCode	3, 4, 5	NotPresent or MailOrder or PhoneOrder
CardInputCode	4	ManualKeyed
CardPresentCode	3	NotPresent
CVVPresenceCode	1 or 2	NotProvided or Provided
MarketCode	2	DirectMarketing
MotoECICode	2	Single (Single used for MoTo only)
TerminalCapabilityCode	5	KeyEntered
TerminalEnvironmentCode	2	LocalAttended
TerminalType	3	MOTO
Other Parameters		Input Values
TerminalID		Element-assigned TerminalID (feel free to use 0001 just for testing purposes)
ReferenceNumber		unique numeric value <= 16 digits recommended
TicketNumber		unique numeric value <= 6 digits recommended
BillingAddress1		e.g. 123 Main Street
BillingZipcode		e.g. 87654
CVV		e.g. 123
PartialApprovedFlag	1 or 0	True or False (optional)
TerminalSerialNumber		Device serial number submitted if sending encrypted card fields
DuplicateOverrideFlag (if handling duplicates)	1	True (resend transaction with DuplicateOverrideFlag set to True (1) if ExpressResponseCode=22 or 23)

### Direct Marketing Keyed and Subsequent Card Tokenization

A Direct Marketing (Card-Not-Present Mail/Phone) transaction involves a cardholder calling a merchant location and providing a card number over the phone. The merchant then keys the card number using the merchant point of sale application, and subsequently tokenizes the card for future Card-on-File/Recurring use.

Parameter	Value	Enumeration
CardholderPresentCode	3, 4, 5	NotPresent or MailOrder or PhoneOrder
CardInputCode	4	ManualKeyed
CardPresentCode	3	NotPresent
CVVPresenceCode	1 or 2	NotProvided or Provided
MarketCode	2	DirectMarketing
MotoECICode	2	Single (Single used for MoTo only)
TerminalCapabilityCode	5	KeyEntered
TerminalEnvironmentCode	2	LocalAttended
TerminalType	3	MOTO

PaymentType	1, 2, 3, 4	Recurring, Installment, CardHolderInitiated, CredentialsOnFile
SubmissionType	1	Initial
Other Parameters		Input Values
TerminalID		Element-assigned TerminalID (feel free to use 0001 just for testing purposes)
ReferenceNumber		unique numeric value <= 16 digits recommended
TicketNumber		unique numeric value <= 6 digits recommended
BillingAddress1		e.g. 123 Main Street
BillingZipcode		e.g. 87654
CVV		e.g. 123
PartialApprovedFlag	1 or 0	True or False (optional)
TerminalSerialNumber		Device serial number submitted if sending encrypted card fields
DuplicateOverrideFlag (if handling duplicates)	1	True (resend transaction with DuplicateOverrideFlag set to True (1) if ExpressResponseCode=22 or 23)
NetworkTransactionID		Response parameter only. Store this response value for inclusion on next Card-on-File or Recurring transaction submission.

### Direct Marketing Card-on-File using Tokenization

A Direct Marketing (Card-Not-Present Mail/Phone) transaction using tokenization involves a merchant location processing a transaction using a token on file for the cardholder. For Recurring/Installment, use either the Recurring or Installment scenario lower in this document.

Parameter	Value	Enumeration
CardholderPresentCode	3	NotPresent
CardInputCode	4	ManualKeyed
CardPresentCode	3	NotPresent
CVVPresenceCode	0	UseDefault
MarketCode	2	DirectMarketing
MotoECICode	2	Single (Single used for MoTo only)
TerminalCapabilityCode	5	KeyEntered
TerminalEnvironmentCode	2	LocalAttended
TerminalType	3	MOTO
PaymentType	4, 3	CredentialsOnFile, CardHolderInitiated
SubmissionType	2, 3, 4	Subsequent, Resubmission, ReAuthorization
Other Parameters		Input Values
TerminalID		Element-assigned TerminalID (feel free to use 0001 just for testing purposes)
ReferenceNumber		unique numeric value <= 16 digits recommended
TicketNumber		unique numeric value <= 6 digits recommended
BillingAddress1		e.g. 123 Main Street
BillingZipcode		e.g. 87654
CVV		e.g. 123
PartialApprovedFlag	1 or 0	True or False (optional)
TerminalSerialNumber		Device serial number submitted if sending encrypted card fields
DuplicateOverrideFlag (if handling duplicates)	1	True (resend transaction with DuplicateOverrideFlag set to True (1) if ExpressResponseCode=22 or 23)
NetworkTransactionID		Include stored NetworkTransactionID stored from prior transaction for same cardholder.

### Direct Marketing Recurring using Tokenization (Ongoing Regular Amounts or Periods)

A Direct Marketing Recurring transaction using tokenization involves a merchant location processing an ongoing recurring payment using a token on file for the cardholder.

Parameter	Value	Enumeration
CardholderPresentCode	6	StandingAuth
CardInputCode	4	ManualKeyed
CardPresentCode	3	NotPresent
MarketCode	2	DirectMarketing
MotoECICode	3	Recurring
TerminalCapabilityCode	5	KeyEntered
TerminalEnvironmentCode	2	LocalAttended
TerminalType	3	MOTO
RecurringFlag	1	True
PaymentType	1	Recurring
SubmissionType	2, 3, 4	Subsequent, Resubmission, ReAuthorization
Other Parameters		Input Values
TerminalID		Element-assigned TerminalID (feel free to use 0001 just for testing purposes)
ReferenceNumber		unique numeric value <= 16 digits recommended
TicketNumber		unique numeric value <= 6 digits recommended
BillingAddress1		e.g. 123 Main Street
BillingZipcode		e.g. 87654
NetworkTransactionID		Include stored NetworkTransactionID stored from prior transaction for same cardholder.

## Direct Marketing Installment

A Direct Marketing Installment transaction using tokenization involves a merchant location processing an installment payment using a token on file for the cardholder.

Parameter	Value	Enumeration
CardholderPresentCode	6	StandingAuth
CardInputCode	4	ManualKeyed
CardPresentCode	3	NotPresent
MarketCode	2	DirectMarketing
MotoECICode	4	Installment
TerminalCapabilityCode	5	KeyEntered
TerminalEnvironmentCode	2	LocalAttended
TerminalType	3	MOTO
RecurringFlag	0	False
PaymentType	2	Installment
SubmissionType	2,3,4	Subsequent, Resubmission, ReAuthorization
Other Parameters		Input Values
TerminalID		Element-assigned TerminalID (feel free to use 0001 just for testing purposes)
ReferenceNumber		unique numeric value <= 16 digits recommended
TicketNumber		unique numeric value <= 6 digits recommended
BillingAddress1		e.g. 123 Main Street
BillingZipcode		e.g. 87654
DuplicateOverrideFlag (if handling duplicates)	1	True (resend transaction with DuplicateOverrideFlag set to True (1) if ExpressResponseCode=22 or 23)
NetworkTransactionID		Include stored NetworkTransactionID stored from prior transaction for same cardholder.

## Ecommerce Transaction Processing

### Ecommerce Keyed

An Ecommerce transaction involves a cardholder visiting a merchant web site or mobile application and keying their card number directly into that web site or mobile application to purchase goods/services. The merchant may also process a card-on-file token on behalf of the cardholder.

Parameter	Value	Enumeration
CardholderPresentCode	7	ECommerce
CardInputCode	4	ManualKeyed
CardPresentCode	3	NotPresent
CVVPresenceCode	1 or 2	NotProvided or Provided
MarketCode	3	ECommerce
MotoECICode	7	NonAuthenticatedSecureECommerceTransaction
TerminalCapabilityCode	5	KeyEntered
TerminalEnvironmentCode	6	ECommerce
TerminalType	2	ECommerce
Other Parameters		Input Values
TerminalID		Element-assigned TerminalID (feel free to use 0001 just for testing purposes)
ReferenceNumber		unique numeric value <= 16 digits recommended
TicketNumber		unique numeric value <= 6 digits recommended
BillingAddress1		e.g. 123 Main Street
BillingZipcode		e.g. 87654
CVV		e.g. 123
PartialApprovedFlag	1 or 0	True or False (optional)
DuplicateOverrideFlag (if handling duplicates)	1	True (resend transaction with DuplicateOverrideFlag set to True (1) if ExpressResponseCode=22 or 23)

### Ecommerce Keyed and Subsequent Card Tokenization

An Ecommerce transaction where the card is then immediately tokenized for future single Card-on-File transactions or ongoing Recurring transactions should submit the following settings.

Parameter	Value	Enumeration
CardholderPresentCode	7	ECommerce
CardInputCode	4	ManualKeyed
CardPresentCode	3	NotPresent
CVVPresenceCode	1 or 2	NotProvided or Provided
MarketCode	3	ECommerce
MotoECICode	7	NonAuthenticatedSecureECommerceTransaction
TerminalCapabilityCode	5	KeyEntered
TerminalEnvironmentCode	6	ECommerce
TerminalType	2	ECommerce
PaymentType	1, 2, 3, 4	Recurring, Installment, CardHolderInitiated (most common), CredentialsOnFile
SubmissionType	1	Initial
Other Parameters		Input Values
TerminalID		Element-assigned TerminalID (feel free to use 0001 just for testing purposes)
ReferenceNumber		unique numeric value <= 16 digits recommended
TicketNumber		unique numeric value <= 6 digits recommended

BillingAddress1		e.g. 123 Main Street
BillingZipcode		e.g. 87654
CVV		e.g. 123
PartialApprovedFlag	1 or 0	True or False (optional)
DuplicateOverrideFlag (if handling duplicates)	1	True (resend transaction with DuplicateOverrideFlag set to True (1) if ExpressResponseCode=22 or 23)
NetworkTransactionID		Response parameter only. Store this response value for inclusion on next Card-on-File or Recurring transaction submission.

## Ecommerce Credentials-on-File/Card-on-File using Tokenization

An Ecommerce transaction using tokenization involves the cardholder submitting a transaction where the card data had been previously tokenized by the merchant and therefore did not require the cardholder to re-enter full card data.

Parameter	Value	Enumeration
CardholderPresentCode	7	ECommerce
CardInputCode	4	ManualKeyed
CardPresentCode	3	NotPresent
CVVPresenceCode	1 or 2	NotProvided or Provided
MarketCode	3	ECommerce
MotoECICode	7	NonAuthenticatedSecureECommerceTransaction
TerminalCapabilityCode	5	KeyEntered
TerminalEnvironmentCode	6	ECommerce
TerminalType	2	ECommerce
PaymentType	3, 4	CardHolderInitiated (most common), CredentialsOnFile
SubmissionType	2, 3, 4	Subsequent (most common), Resubmission, ReAuthorization
Other Parameters		Input Values
TerminalID		Element-assigned TerminalID (feel free to use 0001 just for testing purposes)
ReferenceNumber		unique numeric value <= 16 digits recommended
TicketNumber		unique numeric value <= 6 digits recommended
BillingAddress1		e.g. 123 Main Street
BillingZipcode		e.g. 87654
CVV		e.g. 123
PartialApprovedFlag	1 or 0	True or False (optional)
DuplicateOverrideFlag (if handling duplicates)	1	True (resend transaction with DuplicateOverrideFlag set to True (1) if ExpressResponseCode=22 or 23)
NetworkTransactionID		Include stored NetworkTransactionID stored from prior transaction for same cardholder.

## Mobile In-App Transaction Processing

### Mobile In-App Purchase

An In-App purchase involves a cardholder using a merchant's mobile application to make a purchase using the Mobile Wallet functionality on a mobile device. Note that In-App purchases are only supported on the Express/Vantiv platform.

Parameter	Value	Enumeration
CardholderPresentCode	7	ECommerce
CardInputCode	4	ManualKeyed
CardPresentCode	3	NotPresent

CVVPresenceCode	0	NOTE: CVV is not used for In-App transactions.
MarketCode	3	ECommerce
MotoECICode	5,6,9	Value obtained from the Mobile Wallet when retrieving the DPAN. 5 = Secure Electronic Commerce (Visa/MC/Discover secured with AAV) 6 = Non-Authenticated Secure Transaction (Visa/MC without AAV) 9 = American Express Token
TerminalCapabilityCode	5	KeyEntered
TerminalEnvironmentCode	6	ECommerce
TerminalType	1	PointOfSale (Vantiv In-App purchases require TerminalType set as 1)
Other Parameters		Input Values
WalletType	0,1,2,3	0 = Null (submit as 0 if Wallet Type used is not listed below) 1 = Android Wallet 2 = Apple Wallet 3 = Samsung Wallet Element-assigned TerminalID (feel free to use 0001 just for testing purposes)
Cryptogram		Cryptogram value from the Mobile Wallet
CardNumber		DPAN value from the Mobile Wallet
ExpirationMonth		Expiration Month from the Mobile Wallet
ExpirationYear		Expiration Year from the Mobile Wallet
TerminalID		Element-assigned TerminalID (feel free to use 0001 just for testing purposes)
ReferenceNumber		unique numeric value <= 16 digits recommended
TicketNumber		unique numeric value <= 6 digits recommended
BillingAddress1		e.g. 123 Main Street
BillingZipcode		e.g. 87654
CVV		NOTE: CVV is not used for In-App transactions.
PartialApprovedFlag	1 or 0	True or False (optional)
DuplicateOverrideFlag (if handling duplicates)	1	True (resend transaction with DuplicateOverrideFlag set to True (1) if ExpressResponseCode=22 or 23)

## Hotel/Lodging Transaction Processing

### Hotel/Lodging Swiped

A Hotel/Lodging Swiped transaction involves a cardholder physically presenting a card for payment at a merchant location, and the card is swiped using the merchant point of sale application.

Parameter	Value	Enumeration
CardholderPresentCode	2	Present
CardInputCode*	2*	MagstripeRead*
CardPresentCode	2	Present
MarketCode	5	HotelLodging
MotoECICode	1	NotUsed
TerminalCapabilityCode*	3*	MagstripeReader*
TerminalEnvironmentCode	2	LocalAttended
TerminalType	1	PointOfSale
Other Parameters		Input Values
TerminalID		Element-assigned TerminalID (feel free to use 0001 just for testing purposes)
ReferenceNumber		unique numeric value <= 16 digits recommended
TicketNumber		unique numeric value <= 6 digits recommended
Lodging Parameters		submit where applicable

PartialApprovedFlag	1	True (required: Retail applications must support partial approvals)
TerminalSerialNumber		Device serial number submitted if sending encrypted card fields
DuplicateOverrideFlag (if handling duplicates)	1	True (resend transaction with DuplicateOverrideFlag set to True (1) if ExpressResponseCode=22 or 23)

\* For Completions of prior triPOS EMV Authorizations, use appropriate Chip Read CardInputCode/TerminalCapabilityCode

### Hotel/Lodging Keyed (due to Magnetic Stripe Failure)

A Hotel/Lodging Keyed (due to Magstripe Failure) transaction involves a cardholder physically presenting a card for payment at a merchant location, and the card is swiped using the merchant point of sale application. However, if the swipe fails for any reason, the card must be manually keyed using the merchant point of sale application.

Parameter	Value	Enumeration
CardholderPresentCode	2	Present
CardInputCode	5	ManualKeyedMagstripeFailure (may use 4/ManualKeyed if all trans are keyed)
CardPresentCode	2	Present
MarketCode	5	HotelLodging
MotoECICode	1	NotUsed
TerminalCapabilityCode	3	MagstripeReader
TerminalEnvironmentCode	2	LocalAttended
TerminalType	1	PointOfSale
Other Parameters		Input Values
TerminalID		Element-assigned TerminalID (feel free to use 0001 just for testing purposes)
ReferenceNumber		unique numeric value <= 16 digits recommended
TicketNumber		unique numeric value <= 6 digits recommended
Lodging Parameters		submit where applicable
PartialApprovedFlag	1	True (required: Retail applications must support partial approvals)
TerminalSerialNumber		Device serial number submitted if sending encrypted card fields
DuplicateOverrideFlag (if handling duplicates)	1	True (resend transaction with DuplicateOverrideFlag set to True (1) if ExpressResponseCode=22 or 23)

### Hotel/Lodging Keyed (Card-Not-Present Mail/Phone)

A Hotel/Lodging (Card-Not-Present/Mail/Phone) transaction involves a cardholder calling a merchant location and providing a card number over the phone. The merchant then keys the card number using the merchant point of sale application.

Parameter	Value	Enumeration
CardholderPresentCode	5	PhoneOrder
CardInputCode	4	ManualKeyed
CardPresentCode	3	NotPresent
MarketCode	5	HotelLodging
MotoECICode	2	Single (Single used for MoTo only)
TerminalCapabilityCode	5	KeyEntered
TerminalEnvironmentCode	2	LocalAttended
TerminalType	3	MOTO
Other Parameters		Input Values
TerminalID		Element-assigned TerminalID (feel free to use 0001 just for testing purposes)
ReferenceNumber		unique numeric value <= 16 digits recommended
TicketNumber		unique numeric value <= 6 digits recommended
BillingAddress1		e.g. 123 Main Street

BillingZipcode		e.g. 87654
CVV		e.g. 123
Lodging Parameters		submit where applicable
PartialApprovedFlag	1 or 0	True or False (optional)
TerminalSerialNumber		Device serial number submitted if sending encrypted card fields
DuplicateOverrideFlag (if handling duplicates)	1	True (resend transaction with DuplicateOverrideFlag set to True (1) if ExpressResponseCode=22 or 23)

## Hotel/Lodging Keyed (Ecommerce)

A Hotel/Lodging Ecommerce transaction involves a cardholder visiting a merchant web site or mobile application and keying their card number directly into that web site or mobile application to purchase goods/services.

Parameter	Value	Enumeration
CardholderPresentCode	7	ECommerce
CardInputCode	4	ManualKeyed
CardPresentCode	3	NotPresent
CVVPresenceCode	1 or 2	NotProvided or Provided
MarketCode	5	HotelLodging
MotoECICode	7	NonAuthenticatedSecureECommerceTransaction
TerminalCapabilityCode	5	KeyEntered
TerminalEnvironmentCode	6	ECommerce
TerminalType	2	ECommerce
Other Parameters		Input Values
TerminalID		Element-assigned TerminalID (feel free to use 0001 just for testing purposes)
ReferenceNumber		unique numeric value <= 16 digits recommended
TicketNumber		unique numeric value <= 6 digits recommended
BillingAddress1		e.g. 123 Main Street
BillingZipcode		e.g. 87654
CVV		e.g. 123
Lodging Parameters		submit where applicable
PartialApprovedFlag	1 or 0	True or False (optional)
DuplicateOverrideFlag (if handling duplicates)	1	True (resend transaction with DuplicateOverrideFlag set to True (1) if ExpressResponseCode=22 or 23)

## Auto Rental Transaction Processing

### Auto Rental Swiped

An Auto Rental Swiped transaction involves a cardholder physically presenting a card for payment at a merchant location, and the card is swiped using the merchant point of sale application.

Parameter	Value	Enumeration
CardholderPresentCode	2	Present
CardInputCode*	2*	MagstripeRead*
CardPresentCode	2	Present
MarketCode	1	AutoRental
MotoECICode	1	NotUsed
TerminalCapabilityCode*	3*	MagstripeReader*
TerminalEnvironmentCode	2	LocalAttended
TerminalType	1	PointOfSale
Other Parameters		Input Values

TerminalID		Element-assigned TerminalID (feel free to use 0001 just for testing purposes)
ReferenceNumber		unique numeric value <= 16 digits recommended
TicketNumber		unique numeric value <= 6 digits recommended
Auto Rental Parameters		submit where applicable
PartialApprovedFlag	1	True (required: Retail applications must support partial approvals)
TerminalSerialNumber		Device serial number submitted if sending encrypted card fields
DuplicateOverrideFlag (if handling duplicates)	1	True (resend transaction with DuplicateOverrideFlag set to True (1) if ExpressResponseCode=22 or 23)

\* For Completions of prior triPOS EMV Authorizations, use appropriate Chip Read CardInputCode/TerminalCapabilityCode.

### Auto Rental Keyed (due to Magnetic Stripe Failure)

An Auto Rental Keyed (due to Magstripe Failure) transaction involves a cardholder physically presenting a card for payment at a merchant location, and the card is swiped using the merchant point of sale application. However, if the swipe fails for any reason, the card must be manually keyed using the merchant point of sale application.

Parameter	Value	Enumeration
CardholderPresentCode	2	Present
CardInputCode	5	ManualKeyedMagstripeFailure (may use 4/ManualKeyed if all trans are keyed)
CardPresentCode	2	Present
MarketCode	1	AutoRental
MotoECICode	1	NotUsed
TerminalCapabilityCode	3	MagstripeReader
TerminalEnvironmentCode	2	LocalAttended
TerminalType	1	PointOfSale
Other Parameters		Input Values
TerminalID		Element-assigned TerminalID (feel free to use 0001 just for testing purposes)
ReferenceNumber		unique numeric value <= 16 digits recommended
TicketNumber		unique numeric value <= 6 digits recommended
Auto Rental Parameters		submit where applicable
PartialApprovedFlag	1	True (required: Retail applications must support partial approvals)
TerminalSerialNumber		Device serial number submitted if sending encrypted card fields
DuplicateOverrideFlag (if handling duplicates)	1	True (resend transaction with DuplicateOverrideFlag set to True (1) if ExpressResponseCode=22 or 23)

### Auto Rental Keyed (Card-Not-Present Mail/Phone)

An Auto Rental (Card-Not-Present/Mail/Phone) transaction involves a cardholder calling a merchant location and providing a card number over the phone. The merchant then keys the card number using the merchant point of sale application.

Parameter	Value	Enumeration
CardholderPresentCode	5	PhoneOrder
CardInputCode	4	ManualKeyed
CardPresentCode	3	NotPresent
MarketCode	1	AutoRental
MotoECICode	2	Single (Single used for MoTo only)
TerminalCapabilityCode	5	KeyEntered
TerminalEnvironmentCode	2	LocalAttended
TerminalType	3	MOTO
Other Parameters		Input Values

TerminalID		Element-assigned TerminalID (feel free to use 0001 just for testing purposes)
ReferenceNumber		unique numeric value <= 16 digits recommended
TicketNumber		unique numeric value <= 6 digits recommended
BillingAddress1		e.g. 123 Main Street
BillingZipcode		e.g. 87654
CVV		e.g. 123
Auto Rental Parameters		submit where applicable
PartialApprovedFlag	1 or 0	True or False (optional)
TerminalSerialNumber		Device serial number submitted if sending encrypted card fields
DuplicateOverrideFlag (if handling duplicates)	1	True (resend transaction with DuplicateOverrideFlag set to True (1) if ExpressResponseCode=22 or 23)

### Auto Rental Keyed (Ecommerce)

An Auto Rental Ecommerce transaction involves a cardholder visiting a merchant web site or mobile application and keying their card number directly into that web site or mobile application to purchase goods/services.

Parameter	Value	Enumeration
CardholderPresentCode	7	ECommerce
CardInputCode	4	ManualKeyed
CardPresentCode	3	NotPresent
CVVPresenceCode	1 or 2	NotProvided or Provided
MarketCode	1	AutoRental
MotoECICode	7	NonAuthenticatedSecureECommerceTransaction
TerminalCapabilityCode	5	KeyEntered
TerminalEnvironmentCode	6	ECommerce
TerminalType	2	ECommerce
Other Parameters		Input Values
TerminalID		Element-assigned TerminalID (feel free to use 0001 just for testing purposes)
ReferenceNumber		unique numeric value <= 16 digits recommended
TicketNumber		unique numeric value <= 6 digits recommended
BillingAddress1		e.g. 123 Main Street
BillingZipcode		e.g. 87654
CVV		e.g. 123
Auto Rental Parameters		submit where applicable
PartialApprovedFlag	1 or 0	True or False (optional)
DuplicateOverrideFlag (if handling duplicates)	1	True (resend transaction with DuplicateOverrideFlag set to True (1) if ExpressResponseCode=22 or 23)