



# AN 7401 Enhancing Single Message System to Support Trace ID

**Type:**

Switching release announcement

**Audience:**

Acquirer  
Issuer  
Processor  
Network enablement partner

**Region:**

Global

**Brand:**

Maestro®  
Cirrus®  
Debit Mastercard®

**Product or service:**

Send

**Release:**

23.Q4

**Action indicator:**

Attention warranted (program/service-related): acquirer, issuer

**System:**

Single Message System

**Published:**

6 June 2023

**Effective:**

13 October 2023

## Executive overview

Mastercard is enhancing the Single Message System to pass Trace ID to Single Message issuers when provided by Single Message System acquirers in Financial Transaction Request/0200 messages for MoneySend Payment Transactions.

## Effective date details

Date	Details
13 October 2023	Single Message System

## Customer benefit

Participating single message acquirers will be able to pass DE 48 (Additional Data), subelement 63 (Trace ID) field to single message issuers in Financial Transaction Request/0200 messages for MoneySend Payment Transactions.

This will allow Single Message acquirers to indicate to Single Message issuers that the current Financial Transaction Request/0200 message for a MoneySend Payment Transaction is related to a previous Financial Transaction and will allow Single Message issuers to identify such previous Financial Transaction.

## What Mastercard is doing

Mastercard is enhancing the Single Message System to pass the DE 48, subelement 63 field to issuers when provided by Single Message acquirers in Financial Transaction Request/0200 messages for MoneySend Payment Transactions.

## Background

Mastercard currently permits Dual Message System acquirers to pass Trace ID to both Dual Message issuers and Single Message issuers when provided by Dual Message System acquirers in DE 48, subelement 63 of an Authorization Request/0100 message.

Acquirers use this capability for example in Mastercard Send Fast Refunds, which use MoneySend Payment Transactions, to pass the Trace ID of the original Purchase transaction. This capability is currently not supported by Mastercard when Trace ID is provided by Single Message System acquirers.

## Version history

Each customer must determine the impact on its operations.

Date	Description of change
6 June 2023	Added Other media to Related documentation
18 April 2023	Initial publication date

## Customer impact

This section provides high-level information about customer impact. Refer to the Enhancements section for more details.

### Attention warranted (program/service-related): acquirer, issuer

Single Message System acquirers participating in MoneySend Payment Transactions may choose to populate DE 48, subelement 63 field with DE 63 (Network Data), subfield 3 (Network Reference Number) also known as Switch Serial Number, and DE 15 (Date, Settlement) from the original purchase transaction.

Single Message System issuers should be prepared to receive DE 48, subelement 63 field populated with DE 63 (Network Data), subfield 3 (Network Reference Number) also known as Switch Serial Number, and DE 15 (Date, Settlement) from the original purchase transaction when provided in MoneySend Payment Transactions.

### Transaction message flow impact

The manner in which a customer is connected to Mastercard determines the group of message flows that apply and the transaction message types they send or receive within that group. Customers can interface to the Dual Message System, Single Message System, or both, as applicable. This announcement affects the message flows marked in the Transaction message flow impact table.

### Transaction message flow impact

Acquirer to Mastercard	Mastercard to issuer	Impacted
Dual Message System	Dual Message System	
Dual Message System	Single Message System	
Single Message System	Single Message System	√
Single Message System	Dual Message System	

Examples of message types within the Dual Message System and Single Message System are:

- Authorization Request/0100 and First Presentment/1240 messages
- Financial Transaction Request/0200 and Financial Transaction Advice/0220 messages

## Enhancements

Mastercard will introduce changes to support this announcement.

### Single Message System

Mastercard will enhance the Single Message System for MoneySend Payment transactions to include the following additional data element DE 48, subelement 63.

## Related documentation

Information relevant to this release announcement can be found in the documents available on Mastercard Connect™. Mastercard updates manuals with necessary changes after release implementation. Depending on timing, information provided in this release announcement may not be reflected in a manual until it is updated.

### Reference manuals

For information about the current state of Mastercard processing refer to the *Single Message System Specifications*

### Other media

Statements made in videos presented at the Customer Technical Conference are current when the video was recorded. Videos are currently available only for those announcements presented at the Customer Technical Conference. Mastercard may update announcements without updating the corresponding video. Refer to the most recent version of the announcement for the most up-to-date information.

[AN 7401 Enhancing Single Message System to Support Trace ID](#), Customer Technical Conference, May 2023.

## Platform impact

The Platform impact table lists the impact of this announcement. For items that are marked √ (Yes), details are available in the corresponding topics.

### Platform impact

Topic	Dual Message System (Authorization)	Dual Message System (Clearing)	Single Message System
Message flows			
Message layouts			
Data element definitions			√
IPM MPE			
Interchange			
CAB programs, descriptions, and associated MCCs			
Edits			
Error numbers			
Alternate processing			
Interchange compliance			
Pricing and fees			
Reports			
Bulk files			
Forms			
Quarterly Mastercard reporting			
Transaction Investigator			

Topic	Dual Message System (Authorization)	Dual Message System (Clearing)	Single Message System
SAFE			
Single Message Transaction Manager			
250-byte Batch Data File			
80-byte Financial Institution Table File			

## Single Message System

Mastercard will introduce changes to the Single Message System to support this announcement.

### Single Message System data element definitions

DE 48 (Additional Data)

Is reserved for use based on product type.

Subelement 63 (Trace ID)

DE 48, subelement 63 contains data from DE 63, subfield 3 also known as Switch Serial Number, and DE 15 that is in the original Financial Transaction Request Reponse /0210 message for issuers on the Single Message System.

Attribute	Position	Description	Value
Subelement ID		n-2	63
Subelement length		n-2	15
Data representation		ans-15	
Number of subfields		N/A	
Network data	1–9	ans-9	Contents of DE 63, subfield 3 (Network Reference Number) Switch Serial Number from the original Financial Transaction Request Response/0210 message.
Date settlement	10–13	ans-4	Contents of DE 15 (Date, Settlement) from the original Financial Transaction Request Response/0210 message. The four-digit Settlement Date is in MMDD format.
Original message indicator	14–15	ans-2	For original Financial Transaction Request/0200 messages, value will always be spaces.

### Usage

Whether the data element is mandatory, conditional, optional, system-provided, or not required is noted for each applicable message.

Message	Org	Sys	Dst
Financial Transaction Request/0200	C	.	C
Financial Transaction Advice/0220: acquirer generated	X	.	C
Financial Transaction Advice/0220: system generated	C	.	C
Financial Transaction Advice/0220: force post	C	.	C
Acquirer Reversal Advice/0420: acquirer Initiated	.	X	C

### Application notes

Single Message acquirers may use DE 48, subelement 63 (Trace ID) to provide a reference to a related Financial Transaction in Single Message System Financial Request/0200 for MoneySend Payment Transactions.

For Debit Mastercard authorizations, Network data (the first 9 bytes) will be populated with contents of DE 63, subfield 4 (Banknet Reference Number) in the original Financial Transaction Request/0200 message.

For Debit Mastercard authorizations, Original message indicator (position 14-15) will be populated with value 01 for original Financial Transaction Request/0200 messages. For incremental messages that are sent for the same transaction event, this contains two spaces. For Reversal Transactions, this contains value 02.