

ISO 8583

Messaging standard used in the card payment industry to facilitate communication between different systems involved in a transaction

Defines the **structure of the message** that is transmitted between the different parties, including

Message type indicator (MTI)

Bitmaps

Data elements

A standardized message format ensures that information is transmitted accurately and securely



Message type indicator (MTI)

First field in the ISO 8583

Determine how to process the incoming message

Class of the Function of the Originator of the Indicates version transaction of the message message message Authorization 1987 version Request message By acquirer class



Bitmaps

Binary representations of data elements present in the message

Primary bitmap

Presence or absence of the first 64 data elements

Secondary bitmap

Presence or absence of the remaining 64 data elements

The use of bitmaps helps reduce the message size and speeds up the transmission process



Receiving system of Bitmap

Which data elements are present in the message?
How to process the data?

The data elements carry transaction-related information

Card number

Expiration date

Transaction amount

Data element

Organized into a fixed format and

Numbered sequentially from 2 to 128

Specific purpose and length

Identified by its corresponding number



Most common data elements financial transactions

Cardholder's name

Card number

Expiration date

Transaction amount

There are many more data elements that can be included in the message, depending on the specific transaction type and requirements

