



## Operation Manual

# Mastercard. Message codes for processing "Clearing&Settlement" files

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This document is a catalog of messages for processing settlement data from Mastercard "Clearing&Settlement" files in Way4.

The document is intended for Way4 users (bank or processing center employees) who are responsible for setting up and/or carrying out settlements with payment systems.

When working with this document, it is recommended to use the following resources from the OpenWay documentation series:

- "Mastercard Interchange Interface".
- "Mastercard "Clearing&Settlement" File".
- "Payment system settlement in Way4".

The following notation can be used in the document:

- Field labels in screen forms are shown in *italics*.
- Key combinations are shown in angular brackets, for example, <Ctrl>+<F3>.
- Names of screen form buttons and tabs are shown in square brackets, for example, [Approve].
- Sequences for selecting user menu items or context menu items are shown using arrows as follows: "Issuing → Contracts Input & Update".
- Sequences for selecting system menu items are shown using arrows as follows: Database => Change password.
- Variables that differ for each local instance, such as directory and file names, as well as file paths are shown in angular brackets, as in <OWS\_HOME>.

Warnings and information are marked as follows:



Warnings about potentially hazardous situations or actions.



Messages with information about important features, additional options, or the best use of certain system functions.

# 1 Messages for processing Mastercard files

This section contains messages and message codes that are used in import and processing of "Clearing&Settlement" files (for more information, see the section "File structure" of the document "Mastercard "Clearing&Settlement" File") – OpenWay → MasterCard → MC.Daily Procedures → MC.Inward Processing → IPM Inward Processing. These messages are generated based on payment system data.

When using this information, note the following:

1. The section contains an exhaustive list of messages that are supported in Way4 for this payment system; the use of messages depends on the configuration of the client's system.
2. Message code values "S1%" and "S2%" in the "Message Code" column indicate the file's settlement data level (total or detailed) to which a message being imported belongs. To use these codes, set the parameter NEW\_SETTL\_MSG\_CODES = Y for the file import pipe (see the section "File structure" of the document "Mastercard "Clearing&Settlement" File").
3. The "+" sign in the "Mastercard"/"Mastercard SMS" columns indicates that the message is used when importing or processing files. If the column:
  - Contains the "+" sign and "default", the message is used by default.
  - Contains the "+" sign and <name of parameter> = Y, the message is used when the specified parameter is set for the import pipe.
4. Not all messages starting with "S1" (total level of the file's settlement data) can be used simultaneously, since some of them are mutually exclusive. For example, either "Net Interchange Total Out" and "Net Interchange Total Inc", or "Acq Interchange Total" + "Iss Interchange Total" + "Acq Reimbursement Fee Total" + "Iss Reimbursement Fee Total" + "Fee Collection and Funds Disbursement Total" can be used.  
For more information, see the section "Setup of the file's total level" of the document "Mastercard "Clearing&Settlement" File".
5. Not all messages starting with "S2" (detailed level of the file's settlement data) can be used simultaneously. If more detailed messages are used, less detailed messages of the same type cannot be used. For example, it is possible to use the "Acq Reimb Fee Detail Secondary Out" message as a whole or split it into transaction types: "Acq Reimb Fee Detail Secondary Retail Out", "Acq Reimb Fee Detail Secondary ATM Out", "Acq Reimb Fee Detail Secondary Cash Out", etc.).  
For more information, see the section "Setup of the file's detailed level" of the document "Mastercard "Clearing&Settlement" File" (details of Mastercard dispute transactions using the SETTLE\_SEC\_BY\_TT parameter).
6. The table also contains *Source* and *Target* field values of transaction subtypes corresponding to the indicated messages. These values make it possible to define accounts for recording operations.

Message Name	Message Code	Mastercard	Mastercard SMS	Source/Target
Acq Interchange Total	S1-AI---	+ S1_DTLS=Y	+	Nostro – Nostro Suspense
Iss Interchange Total	S1-II---	+ S1_DTLS=Y	+	Nostro – Nostro Suspense
Acq Reimbursement Fee Total	S1-AF---	+ S1_DTLS=Y	+	Nostro – Nostro Suspense
Iss Reimbursement Fee Total	S1-IF---	+ S1_DTLS=Y	+	Nostro – Nostro Suspense
Net Interchange Total Inc	S1I-T---	+ default		Nostro – Nostro Suspense
Net Interchange Total Out	S1O-T---	+ default		Nostro – Nostro Suspense
Fee Collection and Funds Disbursement Total	S1--I--F	+ S1_DTLS=Y		Nostro – Nostro Suspense
Fee Collection and Funds Disbursement Inc	S2I-I--F	+		Nostro Suspense – Incoming Suspense
Fee Collection and Funds Disbursement Out	S2O-I--F	+		Nostro Suspense – Outgoing Suspense

Message Name	Message Code	Mastercard	Mastercard SMS	Source/Target
Acq Reimb Fee Detail Original Retail with Reversals Out	S2OAF001	+		Nostro Suspense – Retail Fee Passive
Acq Reimb Fee Detail Original Retail Out	S2OAF000		+	Nostro Suspense – Retail Fee Passive
Iss Reimb Fee Detail Original Retail with Reversals Inc	S2IIF001	+		Nostro Suspense – Retail Fee Passive
Iss Reimb Fee Detail Original Retail Inc	S2IIF000		+	Nostro Suspense – Retail Fee Passive
Acq Reimb Fee Detail Original Retail with CashBack Out	S2OAF090	+ (S2OAF091)	+	Nostro Suspense – Retail Fee Passive
Iss Reimb Fee Detail Original Retail with CashBack Inc	S2IIF090	+ (S2IIF091)	+	Nostro Suspense – Retail Fee Passive
Acq Reimb Fee Detail Original ATM with Reversals Out	S2OAF011	+		Nostro Suspense – ATM Fee Passive
Acq Reimb Fee Detail Original ATM Out	S2OAF010		+	Nostro Suspense – ATM Fee Passive
Iss Reimb Fee Detail Original ATM with Reversals Inc	S2IIF011	+		Nostro Suspense – ATM Fee Passive
Iss Reimb Fee Detail Original ATM Inc	S2IIF010		+	Nostro Suspense – ATM Fee Passive

Message Name	Message Code	Mastercard	Mastercard SMS	Source/Target
Acq Reimb Fee Detail Original Cash with Reversals Out	S2OAF121	+		Nostro Suspense – Cash Fee Passive
Acq Reimb Fee Detail Original Cash Out	S2OAF120		+	Nostro Suspense – Cash Fee Passive
Iss Reimb Fee Detail Original Cash with Reversals Inc	S2IIF121	+		Nostro Suspense – Cash Fee Passive
Iss Reimb Fee Detail Original Cash Inc	S2IIF120		+	Nostro Suspense – Cash Fee Passive
Acq Reimb Fee Detail Original Unique with Reversals Out	S2OAF181	+		Nostro Suspense – Retail Fee Passive
Iss Reimb Fee Detail Original Unique with Reversals Inc	S2IIF181	+		Nostro Suspense – Retail Fee Passive
Acq Reimb Fee Detail Original Credit with Reversals Out	S2OAF201	+		Nostro Suspense – Retail Fee Passive
Acq Reimb Fee Detail Original Credit Out	S2OAF200		+	Nostro Suspense – Retail Fee Passive
Iss Reimb Fee Detail Original Credit with Reversals Inc	S2IIF201	+		Nostro Suspense – Retail Fee Passive
Iss Reimb Fee Detail Original Credit Inc	S2IIF200		+	Nostro Suspense – Retail Fee Passive
Acq Reimb Fee Detail CH Payment Out	S2OAF2X-	+(S2OAF2X1)	+	Nostro Suspense – Retail Fee Passive

Message Name	Message Code	Mastercard	Mastercard SMS	Source/Target
Iss Reimb Fee Detail CH Payment Inc	S2IIF2X-	+ (S2IIF2X1)	+	Nostro Suspense – Retail Fee Passive
Acq Reimb Fee Detail Balance Inquiry Out	S2OAF31-		+	Nostro Suspense – ATM Fee Passive
Iss Reimb Fee Detail Balance Inquiry Inc	S2IIF31-		+	Nostro Suspense – ATM Fee Passive
Acq Reimb Fee Detail ATM Account Transfer Out	S2OAF40-		+	Nostro Suspense – ATM Fee Passive
Iss Reimb Fee Detail ATM Account Transfer Inc	S2IIF40-		+	Nostro Suspense – ATM Fee Passive
Acq Reimb Fee Detail Secondary Out	S2OAF--2	+ default		Nostro Suspense – Retail Fee Passive
Acq Reimb Fee Detail Secondary Retail Out	S2OAF002	+ SETTL_SEC_BY_TT		Nostro Suspense – Retail Fee Passive
Acq Reimb Fee Detail Secondary Retail with CashBack Out	S2OAF092	+ SETTL_SEC_BY_TT		Nostro Suspense – Retail Fee Passive
Acq Reimb Fee Detail Secondary ATM Out	S2OAF012	+ SETTL_SEC_BY_TT		Nostro Suspense – ATM Fee Passive
Acq Reimb Fee Detail Secondary Cash Out	S2OAF122	+ SETTL_SEC_BY_TT		Nostro Suspense – Cash Fee Passive
Acq Reimb Fee Detail Secondary Unique Out	S2OAF182	+ SETTL_SEC_BY_TT		Nostro Suspense – Retail Fee Passive



Message Name	Message Code	Mastercard	Mastercard SMS	Source/Target
Acq Reimb Fee Detail Secondary Credit Out	S2OAF202	+ SETTL_SEC_BY_TT		Nostro Suspense – Retail Fee Passive
Acq Reimb Fee Detail Secondary CH Payment Out	S2OAF2X2	+ SETTL_SEC_BY_TT		Nostro Suspense – Retail Fee Passive
Acq Reimb Fee Detail Secondary with Original Reversals Out	S2OAF--3		+	Nostro Suspense – Retail Fee Passive
Iss Reimb Fee Detail Secondary Inc	S2IIF--2	+ default		Nostro Suspense – Retail Fee Passive
Iss Reimb Fee Detail Secondary Retail Inc	S2IIF002	+ SETTL_SEC_BY_TT		Nostro Suspense – Retail Fee Passive
Iss Reimb Fee Detail Secondary Retail with CashBack Inc	S2IIF092	+ SETTL_SEC_BY_TT		Nostro Suspense – Retail Fee Passive
Iss Reimb Fee Detail Secondary ATM Inc	S2IIF012	+ SETTL_SEC_BY_TT		Nostro Suspense – ATM Fee Passive
Iss Reimb Fee Detail Secondary Cash Inc	S2IIF122	+ SETTL_SEC_BY_TT		Nostro Suspense – Cash Fee Passive
Iss Reimb Fee Detail Secondary Unique Inc	S2IIF182	+ SETTL_SEC_BY_TT		Nostro Suspense – Retail Fee Passive
Iss Reimb Fee Detail Secondary Credit Inc	S2IIF202	+ SETTL_SEC_BY_TT		Nostro Suspense – Retail Fee Passive

Message Name	Message Code	Mastercard	Mastercard SMS	Source/Target
Iss Reimb Fee Detail Secondary CH Payment Inc	S2IIF2X2	+ SETTL_SEC_BY_TT		Nostro Suspense – Retail Fee Passive
Iss Reimb Fee Detail Secondary with Original Reversals Inc	S2IIF--3		+	Nostro Suspense – Retail Fee Passive
Acq Reimb Fee Detail Secondary Inc	S2IAF--2	+ default		Nostro Suspense – Retail Fee Passive
Acq Reimb Fee Detail Secondary Retail Inc	S2IAF002	+ SETTL_SEC_BY_TT		Nostro Suspense – Retail Fee Passive
Acq Reimb Fee Detail Secondary Retail with CashBack Inc	S2IAF092	+ SETTL_SEC_BY_TT		Nostro Suspense – Retail Fee Passive
Acq Reimb Fee Detail Secondary ATM Inc	S2IAF012	+ SETTL_SEC_BY_TT		Nostro Suspense – ATM Fee Passive
Acq Reimb Fee Detail Secondary Cash Inc	S2IAF122	+ SETTL_SEC_BY_TT		Nostro Suspense – Cash Fee Passive
Acq Reimb Fee Detail Secondary Unique Inc	S2IAF182	+ SETTL_SEC_BY_TT		Nostro Suspense – Retail Fee Passive
Acq Reimb Fee Detail Secondary Credit Inc	S2IAF202	+ SETTL_SEC_BY_TT		Nostro Suspense – Retail Fee Passive
Acq Reimb Fee Detail Secondary CH Payment Inc	S2IAF2X2	+ SETTL_SEC_BY_TT		Nostro Suspense – Retail Fee Passive

Message Name	Message Code	Mastercard	Mastercard SMS	Source/Target
Acq Reimb Fee Detail Secondary with Original Reversals Inc	S2IAF--3		+	Nostro Suspense – Retail Fee Passive
Iss Reimb Fee Detail Secondary Out	S2OIF--2	+ default		Nostro Suspense – Retail Fee Passive
Iss Reimb Fee Detail Secondary Retail Out	S2OIF002	+ SETTL_SEC_BY_TT		Nostro Suspense – Retail Fee Passive
Iss Reimb Fee Detail Secondary Retail with CashBack Out	S2OIF092	+ SETTL_SEC_BY_TT		Nostro Suspense – Retail Fee Passive
Iss Reimb Fee Detail Secondary ATM Out	S2OIF012	+ SETTL_SEC_BY_TT		Nostro Suspense – ATM Fee Passive
Iss Reimb Fee Detail Secondary Cash Out	S2OIF122	+ SETTL_SEC_BY_TT		Nostro Suspense – Cash Fee Passive
Iss Reimb Fee Detail Secondary Unique Out	S2OIF182	+ SETTL_SEC_BY_TT		Nostro Suspense – Retail Fee Passive
Iss Reimb Fee Detail Secondary Credit Out	S2OIF202	+ SETTL_SEC_BY_TT		Nostro Suspense – Retail Fee Passive
Iss Reimb Fee Detail Secondary CH Payment Out	S2OIF2X2	+ SETTL_SEC_BY_TT		Nostro Suspense – Retail Fee Passive
Iss Reimb Fee Detail Secondary with Original Reversals Out	S2OIF--3		+	Nostro Suspense – Retail Fee Passive

Message Name	Message Code	Mastercard	Mastercard SMS	Source/Target
Acq Ichng Detail Original Retail Out	S2OAI000		+	Nostro Suspense – Outgoing Suspense
Acq Ichng Detail Original Retail with Reversals Out	S2OAI001	+		Nostro Suspense – Outgoing Suspense
Iss Ichng Detail Original Retail Inc	S2III000		+	Nostro Suspense – Incoming Suspense
Iss Ichng Detail Original Retail with Reversals Inc	S2III001	+		Nostro Suspense – Incoming Suspense
Acq Ichng Detail Original Retail with CashBack Out	S2OAI090	+ (S2OAI091)	+	Nostro Suspense – Outgoing Suspense
Iss Ichng Detail Original Retail with CashBack Inc	S2III090	+ (S2III091)	+	Nostro Suspense – Incoming Suspense
Acq Ichng Detail Original ATM Out	S2OAI010		+	Nostro Suspense – Outgoing Suspense
Acq Ichng Detail Original ATM with Reversals Out	S2OAI011	+		Nostro Suspense – Outgoing Suspense
Iss Ichng Detail Original ATM Inc	S2III010		+	Nostro Suspense – Incoming Suspense
Iss Ichng Detail Original ATM with Reversals Inc	S2III011	+		Nostro Suspense – Incoming Suspense
Acq Ichng Detail Original Cash Out	S2OAI120		+	Nostro Suspense – Outgoing Suspense
Acq Ichng Detail Original Cash with Reversals Out	S2OAI121	+		Nostro Suspense – Outgoing Suspense
Iss Ichng Detail Original Cash Inc	S2III120		+	Nostro Suspense – Incoming Suspense

Message Name	Message Code	Mastercard	Mastercard SMS	Source/Target
Iss Ichng Detail Original Cash with Reversals Inc	S2III121	+		Nostro Suspense – Incoming Suspense
Acq Ichng Detail Original Unique with Reversals Out	S2OAI181	+		Nostro Suspense – Outgoing Suspense
Iss Ichng Detail Original Unique with Reversals Inc	S2III181	+		Nostro Suspense – Incoming Suspense
Acq Ichng Detail Original Credit Out	S2OAI200		+	Nostro Suspense – Outgoing Suspense
Acq Ichng Detail Original Credit with Reversals Out	S2OAI201	+		Nostro Suspense – Outgoing Suspense
Iss Ichng Detail Original Credit Inc	S2III200		+	Nostro Suspense – Incoming Suspense
Iss Ichng Detail Original Credit with Reversals Inc	S2III201	+		Nostro Suspense – Incoming Suspense
Acq Ichng Detail CH Payment Out	S2OAI2X-	+(S2OAI2X1)	+	Nostro Suspense – Outgoing Suspense
Iss Ichng Detail CH Payment Inc	S2III2X-	+(S2III2X1)	+	Nostro Suspense – Incoming Suspense
Acq Ichng Detail Secondary Out	S2OAI--2	+ default		Nostro Suspense – Outgoing Suspense
Acq Ichng Detail Secondary Retail Out	S2OAI002	+ SETTL_SEC_BY_TT		Nostro Suspense – Outgoing Suspense
Acq Ichng Detail Secondary Retail with CashBack Out	S2OAI092	+ SETTL_SEC_BY_TT		Nostro Suspense – Outgoing Suspense

Message Name	Message Code	Mastercard	Mastercard SMS	Source/Target
Acq Ichng Detail Secondary ATM Out	S2OAI012	+ SETTL_SEC_BY_TT		Nostro Suspense – Outgoing Suspense
Acq Ichng Detail Secondary Cash Out	S2OAI122	+ SETTL_SEC_BY_TT		Nostro Suspense – Outgoing Suspense
Acq Ichng Detail Secondary Unique Out	S2OAI182	+ SETTL_SEC_BY_TT		Nostro Suspense – Outgoing Suspense
Acq Ichng Detail Secondary Credit Out	S2OAI202	+ SETTL_SEC_BY_TT		Nostro Suspense – Outgoing Suspense
Acq Ichng Detail Secondary CH Payment Out	S2OAI2X2	+ SETTL_SEC_BY_TT		Nostro Suspense – Outgoing Suspense
Acq Ichng Detail Secondary with Original Reversals Out	S2OAI--3		+	Nostro Suspense – Outgoing Suspense
Iss Ichng Detail Secondary Inc	S2III--2	+ default		Nostro Suspense – Incoming Suspense
Iss Ichng Detail Secondary Retail Inc	S2III002	+ SETTL_SEC_BY_TT		Nostro Suspense – Incoming Suspense
Iss Ichng Detail Secondary Retail with CashBack Inc	S2III092	+ SETTL_SEC_BY_TT		Nostro Suspense – Incoming Suspense
Iss Ichng Detail Secondary ATM Inc	S2III012	+ SETTL_SEC_BY_TT		Nostro Suspense – Incoming Suspense
Iss Ichng Detail Secondary Cash Inc	S2III122	+ SETTL_SEC_BY_TT		Nostro Suspense – Incoming Suspense

Message Name	Message Code	Mastercard	Mastercard SMS	Source/Target
Iss Ichng Detail Secondary Unique Inc	S2III182	+ SETTL_SEC_BY_TT		Nostro Suspense – Incoming Suspense
Iss Ichng Detail Secondary Credit Inc	S2III202	+ SETTL_SEC_BY_TT		Nostro Suspense – Incoming Suspense
Iss Ichng Detail Secondary CH Payment Inc	S2III2X2	+ SETTL_SEC_BY_TT		Nostro Suspense – Incoming Suspense
Iss Ichng Detail Secondary with Original Reversals Inc	S2III--3		+	Nostro Suspense – Incoming Suspense
Acq Ichng Detail Secondary Inc	S2IAI--2	+ default		Nostro Suspense – Incoming Suspense
Acq Ichng Detail Secondary Retail Inc	S2IAI002	+ SETTL_SEC_BY_TT		Nostro Suspense – Incoming Suspense
Acq Ichng Detail Secondary Retail with CashBack Inc	S2IAI092	+ SETTL_SEC_BY_TT		Nostro Suspense – Incoming Suspense
Acq Ichng Detail Secondary ATM Inc	S2IAI012	+ SETTL_SEC_BY_TT		Nostro Suspense – Incoming Suspense
Acq Ichng Detail Secondary Cash Inc	S2IAI122	+ SETTL_SEC_BY_TT		Nostro Suspense – Incoming Suspense
Acq Ichng Detail Secondary Unique Inc	S2IAI182	+ SETTL_SEC_BY_TT		Nostro Suspense – Incoming Suspense
Acq Ichng Detail Secondary Credit Inc	S2IAI202	+ SETTL_SEC_BY_TT		Nostro Suspense – Incoming Suspense

Message Name	Message Code	Mastercard	Mastercard SMS	Source/Target
Acq Ichng Detail Secondary CH Payment Inc	S2IAI2X2	+ SETTL_SEC_BY_TT		Nostro Suspense – Incoming Suspense
Acq Ichng Detail Secondary with Original Reversals Inc	S2IAI--3		+	Nostro Suspense – Incoming Suspense
Iss Ichng Detail Secondary Out	S2OII--2	+ default		Nostro Suspense – Outgoing Suspense
Iss Ichng Detail Secondary Retail Out	S2OII002	+ SETTL_SEC_BY_TT		Nostro Suspense – Outgoing Suspense
Iss Ichng Detail Secondary Retail with CashBack Out	S2OII092	+ SETTL_SEC_BY_TT		Nostro Suspense – Outgoing Suspense
Iss Ichng Detail Secondary ATM Out	S2OII012	+ SETTL_SEC_BY_TT		Nostro Suspense – Outgoing Suspense
Iss Ichng Detail Secondary Cash Out	S2OII122	+ SETTL_SEC_BY_TT		Nostro Suspense – Outgoing Suspense
Iss Ichng Detail Secondary Unique Out	S2OII182	+ SETTL_SEC_BY_TT		Nostro Suspense – Outgoing Suspense
Iss Ichng Detail Secondary Credit Out	S2OII202	+ SETTL_SEC_BY_TT		Nostro Suspense – Outgoing Suspense
Iss Ichng Detail Secondary CH Payment Out	S2OII2X2	+ SETTL_SEC_BY_TT		Nostro Suspense – Outgoing Suspense
Iss Ichng Detail Secondary with Original Reversals Out	S2OII--3		+	Nostro Suspense – Outgoing Suspense