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## **Asset Services**

# **DEPOSIT WITHDRAWAL AT CUSTODIAN (DWAC): ISO 15022 MESSAGE LAYOUTS**

DECEMBER 28, 2023

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# DOCUMENT HISTORY

04/02/15	Document Created.
08/18/2015	Updated content rules of the share quantity unit in MT524.
October 2015	Two new fields planned for the DWAC Input message MT524: <ul style="list-style-type: none"><li>• Memo Seg Deposit</li><li>• Registered Holder's Name.</li></ul>
December 2023	Rebranded document to fit updated template.

# STANDARD ISO INPUT MESSAGE BLOCKS

All ISO messages destined for DTC must contain the following 4 message blocks.

- Basic Header Block - Contains the general information identifying the message and some additional control information.
- Application Header Block - Contains information specific to the application and is required for messages exchanged between users or between the system and users.
- User Header Block - Contains user reference information.
- Text Block - Contains the actual data being transmitted.

## Basic Header Block

Field Description	Position	Length	Content Rules	Input Value
Starting Block Delimiter	1	1	The character { is used to indicate the beginning of a block	{
Block Identifier	2	2	Must contain a value of "1:"	1:
Message Identifier	4	1	Must contain a value of "F"	F
Protocol Identifier	5	2	Must contain a value of "01"	01
Submitter's Bank/Firm Code	7	8	Submitter's Bank Identifier Code (BIC) or the user's Participant ID (If the submitter is a Group User, this ID must be connected in DTCC's Group User eligibility table)	12345678
Logical Terminal	15	1	Identifies terminal type. "A" for Swift messages, "X" for non-Swift messages	X
Branch Code	16	3	Identifies branch	123
Session Number	19	4	A 4-digit value assigned by the submitter. Its default is 0000. The Session Number is not validated by the receiving DTCC subsidiary	0000
Sequence Number	23	6	A 6-digit value assigned by the submitter. Its default is 000000. The Session Number is not validated by the receiving DTCC subsidiary	000000
Ending Block Delimiter	29	1	The character } is used to indicate the end of a block	}

## Application Header Block

Field Description	Position	Length	Content Rules	Input Value
Starting Block Delimiter	30	1	The character { is used to indicate the beginning of a block	{
Block Identifier	31	2	Must contain a value of "2:"	2:
Input / Output Identifier	33	1	Must contain a value of "I"	I
ISO Message Type	34	3	Must contain a valid 3-digit ISO Message Type ID	524
Recipient's Bank/Firm Code	37	8	The value of this field should be one of the following based on function definition: <ol style="list-style-type: none"> <li>1. Recipient's Bank Identifier Code (BIC)</li> <li>2. Recipient's Participant ID</li> <li>3. Value of "INTDTC" (Internal DTC User) when the function used is a one-party transaction and the recipient of the message is an internal DTC application</li> </ol>	12345678
Logical Terminal	45	1	Identifies a terminal type when a BIC ID is entered as the Recipient's Bank/Firm Code	X
Branch Code	46	3	Identifies branch when a BIC ID is entered as the Recipient's Bank/Firm Code	123
Message Priority	49	1	Must contain a value of "N"	N
Delivery Monitoring	50	1	Must contain a value of "2"	2
Ending Block Delimiter	51	1	The character } is used to indicate the end of a block	}

## User Header Block

Field Description	Position	Length	Content Rules	Input Value
Starting Block Delimiter	52	1	The character { is used to indicate the beginning of a block	{
Block Identifier	53	2	Must contain a value of "3:"	3:
Version Number Tag	55	5	Must contain a value of "{113:"	{113:
Version Number	60	4	Must contain a value of "0301" for Settlement ISO Messages Must contain a value of "0701" for EuroCCP ISO Messages	1234
Ending Delimiter of Version Number Tag	64	1	The character } is used to indicate the end of the tag	}
Submitter's Reference Key Tag	65	5	Must contain a value of "{108:"	{108:
Submitter's Reference Key	70	16	Unique key created by the submitter to identify the transaction	XXXXXXXXXXXXXXXXXXXX
Ending Delimiter of Submitter's Reference Key Tag	86	1	The character} is used to indicate the end of the tag	}
Ending Block Delimiter	87	1	The character } is used to indicate the end of a block	}

## Text Block

Field Description	Position	Length	Content Rules	Input Value
Starting Block Delimiter	88	1	The character { is used to indicate the beginning of a block	{
Starting Block Identifier	89	2	Must contain a value of "4:"	4:
Carriage Return - Line Feed (crLf)	91	2	Must contain the carriage return - line feed (crLf) combination	crLf
Message Data	93	1-27,000 bytes	The actual contents of the message will be inserted here	
End of Message Data Carriage Return - Line Feed (crLf) and hyphen		3	Must contain the carriage return - line feed combination followed by a hyphen	crLf-
Ending Block Delimiter		1	The character} is used to indicate the end of a block	}

# DEPOSIT/WITHDRAWAL AT CUSTODIAN

Business Transaction: **Deposit/Withdrawal At Custodian**

ISO Message Type: **MT524 - Intra-Position Instruction**

Deposit/Withdrawal by Custodian (DWAC) allows users to send requests to Fast Automated Security Transfer (FAST) agents or other DTC custodians to deposit or withdraw securities into or out of a user's DTC account.

Key: **M** = Mandatory, **O** = Optional

## Mandatory Sequence A - General Information

M/O	Field Description	Tag	Qualifier(s)	Content Rules
<b>M</b>	Start of Block - General Information	:16R:		GENL
<b>M</b>	Sender's Reference Number	:20C:	:SEME//	16x
<b>M</b>	Message Function	:23G:		NEWM
<b>M</b>	End of Block - General Information	:16S:		GENL

## Mandatory Sequence B - Intra-Position Details

M/O	Field Description	Tag	Qualifier(s)	Content Rules
<b>M</b>	Start of Block - Intra-Position Details	:16R:		INPOSDET
<b>O</b>	Participant Number	:95R:	:ACOW/DTCYPART/	00009999  0000 followed by 4 digits. All 4 digits are required
<b>M</b>	Safekeeper - DTCC	:97A:	:SAFE//	DTCC
<b>M</b>	Share Quantity	:36B:	:SETT//	UNIT/999999999,99999  At least 1 whole digit is required. No more than 9 may be present.  Fractions are not allowed. A decimal comma is always required
<b>M</b>	ISIN	:35B:		The literal "ISIN" followed by a space followed by the 12-character ISIN  Note-DTC does not accept Non-U.S. ISIN Example: ISIN US1234567891.  DTC does not accept non-U.S. ISIN

## Optional Subsequence B1 - Financial Instrument Attributes

M/O	Field Description	Tag	Qualifier(s)	Content Rules
M	Start of Block - Financial Instrument Attributes	:16R:		FIA
M	Business Transaction ID	:22F:	:FORM/DTCY/	DW01
O	Instruction Type	:22F:	:PADI/DTCY//	DRCD or WRCD DRCD indicates deposit record WRCD indicates withdrawal record
M	End of Block - Financial Instrument Attributes	:16S:		FIA
M	Settlement Date	:98A:	:SETT//	yyyymmdd
O	Narrative - DTC Comments	:70E:	:SPRO//	35x crlf 35x crlf 10x The maximum length DTC will accept is 80, 2 lines of 35 characters and 1 line of 10 characters. Each line should be separated by a CRLF (carriage return – line feed).
M	Balance From	:93A:	:FROM//	AVAI Balance from which the security is moving - Available
M	Balance To	:93A:	:TOBA//	BLOK Balance to which the security is moving - Blocked
O	Memo Seg Deposit	:93A:	:TOBA//	RSTR
M	End of Block - Intra- Position Details	:16S:		INPODET

## Optional Sequence C - Additional Information

M/O	Field Description	Tag	Qualifier(s)	Content Rules
<b>M</b>	Start of Block - Additional Information	:16R:		ADDINFO
<b>O</b>	Registered Holder's Name	:95Q:	:MEOR//	This is optional unless the value of the security on a Deposit is priced at less than \$1.00. Maximum of 60 characters can be provided for Registered Holder's Name. If the Registered Holder's Name is more than 35 characters, then the remaining up to 25 characters should be provided on the 2nd line. Each line should be separated by a CRLF (carriage return - line feed)
<b>O</b>	Transfer Agent Contact Name and Phone Number	:95Q:	:MERE//	The first line is reserved for the contact name for a maximum length of 20. The second line will be reserved for the contact phone number for a maximum length of 18 (area code-exchange-extension). Each line should be separated by a CRLF (carriage return - line feed).
<b>M</b>	End of Block - Additional Information	:16S:		ADDINFO

# STANDARD ISO OUTPUT MESSAGE BLOCKS

All ISO messages destined for DTC must contain the following 4 message blocks.

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- Application Header Block - Contains information specific to the application and is required for messages exchanged between users or between the system and users.
- User Header Block - Contains user reference information.
- Text Block - Contains the actual data being transmitted.

## Basic Header Block

Field Description	Position	Length	Content Rules	Input Value
Starting Block Delimiter	1	1	The character { is used to indicate the beginning of a block	{
Block Identifier	2	2	Must contain a value of "1:"	1:
Message Identifier	4	1	Must contain a value of "F"	F
Protocol Identifier	5	2	Must contain a value of "01"	01
Recipient's Bank/ Firm Code	7	8	Recipient's Bank Identifier Code (BIC) or the user's Participant ID (If the recipient is a Group User, this ID must be connected in DTCC's Group User eligibility table)	12345678
Logical Terminal	15	1	Identifies terminal type	X
Branch Code	16	3	Identifies branch	123
Session Number	19	4	A 4-digit value assigned by a DTCC subsidiary Its default is 0000	0000
Sequence Number	23	6	A 6-digit value assigned by a DTCC subsidiary Its default is 000000	000000
Ending Block Delimiter	29	1	The character } is used to indicate the end of a block	}

## Application Header Block

Field Description	Position	Length	Content Rules	Input Value
Starting Block Delimiter	30	1	The character { is used to indicate the beginning of a block	{
Block Identifier	31	2	Must contain a value of "2:"	2:
Input/Output Identifier	33	1	Must contain a value of "O"	O
ISO Message Type	34	3	Must contain a valid 3-digit ISO Message Type ID	548
Receipt Time	37	4	Format is: HHMM The time the message was received by the receiving DTCC subsidiary	HHMM
Receipt Date	41	6	Format is: YYMMDD The date the message was received by the receiving DTCC subsidiary	YYMMDD
Submitter's Bank/Firm Code	47	8	Submitter's Bank Identifier Code (BIC) or the Submitter's Participant ID (the same number passed to DTC in the ISOINP message)	12345678
Logical Terminal	55	1	Identifies terminal type. "A" for Swift messages, "X" for non-Swift messages	X
Branch Code	56	3	Always Spaces	
Session Number	59	4	A 4-digit value assigned by the submitter. The session number is set to 0000 if it is not passed by a DTCC subsidiary	1234
Sequence Number	63	6	A 6-digit value assigned by the submitter. The sequence number is set to 000000 if it is not passed by a DTCC subsidiary	123456
Transmission Date	69	6	Format is: YYMMDD The date the message was sent from a DTCC subsidiary to the recipient	YYMMDD
Transmission Time	75	4	Format is: HHMM The time the message was sent from a DTCC subsidiary to the recipient	HHMM
Message Priority	79	1	Must contain a value of "N"	N

Field Description	Position	Length	Content Rules	Input Value
Ending Block Delimiter	80	1	The character } is used to indicate the end of a block.	}

## User Header Block

Field Description	Position	Length	Content Rules	Input Value
Starting Block Delimiter	81	1	The character { is used to indicate the beginning of a block	{
Block Identifier	82	2	Must contain a value of "3:"	3:
Version Number Tag	84	5	Must contain a value of "{113:"	{113:
Version Number	89	4	Must contain a value of "0301" for Settlement ISO Messages Must contain a value of "0701" for EuroCCP ISO Messages	1234
Ending Delimiter of Version Number Tag	93	1	The character } is used to indicate the end of the tag	}
Submitter's Reference Key Tag	94	5	Must contain a value of "{108:"	{108:
Submitter's Reference Key	99	16	Unique key created by the submitter to identify the transaction	XXXXXXXXXXXXXXXXXXXX
Ending Delimiter of Submitter's Reference Key Tag	115	1	The character } is used to indicate the end of the tag	}
Tag for expanded time	116	5	Must contain value of "{115:"	{115:
Expanded Time	121	11	Format is: HH.MM.SS.NN Since blocks 1 and 2 do not allow for seconds in the time fields, this field gives the time down to the second. It contains either the time a DTCC subsidiary received the message from the submitter or the time the message was created by a DTCC subsidiary	HH.MM.SS.NN
Ending Delimiter of Expanded Time Tag	132	1	The character } is used to indicate the end of the tag	}
Ending Block Delimiter	133	1	The character } is used to indicate the end of a block	}

## Text Block

Field Description	Position	Length	Content Rules	Input Value
Starting Block Delimiter	134	1	The character { is used to indicate the beginning of a block	{
Starting Block Identifier	135	2	Must contain a value of "4:"	4:
Carriage Return - Line Feed (crlf)	137	2	Must contain the carriage return - line feed (crlf) combination	crlf
Message Data	139	1 – 27,000 bytes	The actual contents of the message will be inserted	
End of Message Data Carriage Return - Line Feed (crlf) and hyphen		3	Must contain the carriage return - line feed combination followed by a hyphen	crlf-
Ending Block Delimiter		1	The character } is used to indicate the end of a block	}

# SETTLEMENT STATUS (LONG VERSION) FOR DEPOSITORY WITHDRAWAL AT CUSTODIAN

Business Transaction: **Settlement Status (Long Version) for Depository Withdrawal at Custodian**

ISO Message Type: **MT548 - Settlement Status and Processing Advice**

These optional messages are sent to the participant for all state changes including those transactions "Made" in IMS/ATP occurs.

Key: **M** = Mandatory, **O** = Optional

## Mandatory Sequence A - General Information

M/O	Field Description	Tag	Qualifier(s)	Content Rules
<b>M</b>	Start of Block - General Information	:16R:		GENL
<b>M</b>	DTCC Tracking Number	:20C:	:SEME//	16x
<b>M</b>	Message Function	:23G:		INST
<b>O</b>	Transaction Update Date/Time	:98C:	:PREP//	yyyymmddhhmmss

## Mandatory Subsequence A1 - Linkages (IMS TID)

M/O	Field Description	Tag	Qualifier(s)	Content Rules
<b>M</b>	Start of Block - Linkages	:16R:		LINK
<b>M</b>	IMS Transaction ID	:20C:	:RELA//	16x
<b>M</b>	End of Block - Linkages	:16S:		LINK

## Mandatory Subsequence A1 - Linkages (Deliverer Reference Number)

M/O	Field Description	Tag	Qualifier(s)	Content Rules
<b>M</b>	Start of Block - Linkages	:16R:		LINK
<b>M</b>	Deliverer's Reference Number	:20C:	:TRRF//	16x
<b>M</b>	End of Block -Linkages	:16S:		LINK

## Mandatory Subsequence A2 - Status

M/O	Field Description	Tag	Qualifier(s)	Content Rules
M	Start of Block - Status	:16R:		STAT
M	Status Code	:25D:	:SETT/DTC Y/	4x Valid Status Codes: AUTH=Authorized CANA=ATP Cancelled CANC=IMS Cancelled MAKD=Made NAL1=CNS Level 1 Received Formerly NAL2=CNS Level 2 Received PDRI=IMS Permanently Dropped PDRP=Dropped Permanent PREA=Pre=authorized PREX=Pre-exempted RATP=PDC Reduction Processed RAUT=RAD Authorized RDPR=ATP Dropped Reintroduced RCRN=Recycling Green RJCF=IMS Rejected to File RJCT=ATP Rejected RJCI=IMS Rejected RLSD=Released RSUB=Submitted to RAD SUBA=Submitted to ATP UNPR=Unprocessed XMPT=Exempted XPER=Recycling Express

## Optional Subsequence A2a - Reason

M/O	Field Description	Tag	Qualifier(s)	Content Rules
M	Start of Block - Reason	:16R:		REAS
M	Reject Code - Field Code	:24B:	:REJT/DTY C/	4x
O	Reject Code - Error Message	:70D:	:REAS//	35x crlf 35x crlf 35x crlf 35x crlf 35x crlf 35x The maximum length DTC will accept in 210, 6 lines of 35 characters. Each line should be separated by a CRLF (carriage return – line feed)
M	End of Block - Reason	:16S:		REAS
M	End of Block - Status	:16S:		STAT
M	End of Block - General Information	:16S:		GENL

## Optional Sequence B - Settlement Transaction Details

M/O	Field Description	Tag	Qualifier(s)	Content Rules
M	Start of Block - Settlement Transaction Details	:16R:		SETTRAN
M	ISIN	:35B:		The literal "ISIN" followed by a space followed by the 12-character ISIN  <b>Note</b> -DTC does not accept Non-U.S. ISIN  Example: ISIN US1234567891. DTC does not accept non-U.S. ISIN
M	Quantity	:36B:	:SETT//	UNIT/999999999, At least 1 whole digit is required. No more than 9 may be present. Fractions are not allowed. A decimal comma is always required
M	Safekeeper	:97A:	:SAFE//	35x
M	Instruction Type	:22F:	:SETR/DTC Y//	DRCD or WRCD DRCD indicates deposit record. WRCD indicates withdrawal record

M/O	Field Description	Tag	Qualifier(s)	Content Rules
M	Receiver/Deliverer Indicator	:22H:	:REDE//	DELI or RECE DELI indicates you are the deliverer RECE indicates you are the receiver
M	Payment Indicator	:22H:	:PAYM//	APMT or FREE APMT indicates a valued transaction. FREE indicates a free transaction
O	Internal Source Code	:22F:	:STCO/DTC YISRC	4x
O	Transaction Type	:22F:	:STCO/DTC YTXNT/	4x
O	Activity Code	:22F:	:STCO/DTC YACTV	4x
O	Actual Settlement Date	:98A:	:EXSE//	yyyymmdd
M	Settlement Date	:98A:	:SETT//	yyyymmdd
O	Narrative - DTC DO Comments	:70E:	:SPRO//	35x crlf 35x 10x  The maximum length DTC will accept is 350, 10 lines of 35 characters. Each line should be separated by a CRLF (carriage return – line feed).

## Optional Subsequence B1 - Settlement Parties (Deliverer)

M/O	Field Description	Tag	Qualifier(s)	Content Rules
M	Start of Block - Settlement Parties	:16R:		SETPRTY
M	Deliverer (Pledgor)	:95R:	:DEAG/DT CYPART/	00009999 0000 followed by 4 digits. All 4 digits are required.
M	End of Block - Settlement Parties	:16S:		SETPRTY

## Optional Subsequence B1 - Settlement Parties (Place of Settlement)

M/O	Field Description	Tag	Qualifier(s)	Content Rules
M	Start of Block - Settlement Parties	:16R:		SETPRTY
M	Place of Settlement	:95P:	:PSET//	DTCYUS33
M	End of Block - Settlement Parties	:16S:		SETPRTY
M	End of Block - Settlement Transaction Details	:16S:		SETTRAN

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