



DATA DELIVERY SERVICE

CF2/MQ TRANSMISSION GUIDES

26.01

DESCRIPTIVE UPDATE AND MASTER FILES / INTERNATIONAL MESSAGES / AGENT UPDATE AND MASTER MESSAGES

DECEMBER 28, 2023

DOCUMENT VERSION

This document was written by DTCC Data Services in conjunction with the Business Systems and Documentation group, a group within the Customer Training and Information Products department. The following table details the releases of this document and the changes incorporated into each release.

This document contains the first release of specifications, which will be updated and modified when additional phases are completed and/or new features and/or information is added. Should you have any questions regarding this document or its contents, please contact SMFDataQuality@dtcc.com.

Table 1: Document Change History

| Version | Date | Summary |
|---------|----------------|--|
| 1.0 | 11/24/00-Draft | First draft of document. |
| 1.1.0 | 12/26/00-Draft | Reviewed draft of document |
| 1.1.1 | 01/08/01-Draft | Overview and delivery text |
| 1.1.2 | 01/24/01-Draft | Departmental release and review |
| 1.1.3 | 02/06/01-Draft | Inclusion of DIVANN format |
| 1.1.4 | 02/08/01-Draft | Submission for review by DMD Glossary Sub-Committee |
| 1.2.0 | 05/30/01-Draft | Pilot documentation |
| 1.2.1 | 06/13/01 | Final Draft |
| 1.3.1 | 05/14/02 | Updated |
| 1.4 | 10/21/03 | Updated |
| 1.5 | 05/09/05 | Updated |
| 1.6 | 10/13/08 | Added information for new file 'LTD MST' along with new message type 'L01' for this file only. Also added two new indicators: OA Timeliness Attestation and Spanish Tax Withholding Indicator. One to message type D01 and one to D06. |

| Version | Date | Summary |
|---------|------------|--|
| 2.0 | 11/05/2009 | Build America Project added the following fields: Tax Credit in Lieu of Interest; Tax Credit Bond Type; Tax Credit Rate; Tax Credit Record Date–Number of Days; Tax Credit Record Date–Number of Days Business/Calendar Indicator; Tax Credit Record Date–Fixed Date; Tax Credit Payment Frequency; Tax Credit First Payment Date; Stock for Maturity Indicator; Extended Maturity Indicator; Sovereign Debt Indicator; CNS Eligibility Indicator |
| 2.1 | 01/29/2010 | Final layout changes for Build America Bonds project |
| 2.2 | 06/06/2011 | Added Global Lock and Global Lock Reason to D06 data records (positions 158-159) (Previously part of filler). |
| 2.3 | 12/17/2013 | Added Deposit Chill Reason to D06 data records (position 160). Updated Ticker description. |
| 2.4 | 04/03/2014 | Updated description of Message Sequence Number in Agent Descriptive Message A02 |
| 2.5 | 08/10/2015 | Updated paragraphs 'Message Handling', 'Files Descriptions and Acronyms', 'File Delivery' 'Message Formats' with current information |
| 2.6 | 11/17/2016 | Updated L01 message status type values |
| 2.7 | 03/07/2017 | Updated D01 message record |
| 2.8 | 07/01/2020 | Added 871(m) fields to D06 Message |
| N/A | 12/18/2023 | Removed the following International Update, Master and Misc. – Messages & Volumes files: AMMNUP, AMUNUP, CSDCUP, CSDMST, LTDMST, REGSMF, REGSUP. |

Note

The digit *after* the decimal should be incremented after each draft (e.g., 1.0, 1.1, 1.2, etc.). The digit *before* the decimal should be incremented only if there has been a major design change or enhancement to a project (e.g., 1.0, 2.0, 3.0...). Do not confuse the project version number (e.g., SPEED 5.7) with the document version number (e.g., *SPEED 5.7 Business Requirements, Version 1.0*).

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INTRODUCTION / BACKGROUND

The Data Delivery Service consists of a series of multiple message types that cover eligibility, formal or legal issue descriptions, agent information and event data (corporate actions, distributions and redemptions). The file delivery consists of end-of-day activity or master files segmented by six DTC product types, specifically Equities, Corporate Fixed Income, Municipals, Government, Mortgage/Asset Backed, and Money Market Instruments. The Data Delivery Service is looking to address its customers' need to centralize and standardize security information, by providing this data directly into their systems.

The Data Delivery Service provides in a file delivery the same information that is presented in the PTS function GWIZ. Introduced in August 2000, GWIZ combines into a single application expanded security information with up-to-the-minute data on Corporate Actions, Distributions and Redemptions. The service covers the full universe (over two million) DTC eligible securities. The PTS application includes enhanced search capabilities and improved navigation, providing faster access with fewer keystrokes to more information from traditional PTS functions. Combined with a browser application, these three services constitute the suite of services that aggregate information derived from DTC's operations and present this data in a consolidated format.

MESSAGE HANDLING

Standard File Header

All files have the standard header and the Header Message. The file header has the following format.

Both Creation Date and Load Date are populated with the date when file was created (current DTCC business date).

Note:

Header Message–H01 will be addressed in 'Message Formats' section.

| Position | Length | Format | Description |
|----------|-----------------|-----------|--|
| 1 | 3 | Character | Record ID–“HDR” or “TRL” |
| 4 | 8 | Character | Signon ID |
| 12 | 6 | Character | Data Type Requested |
| 18 | 6 | Character | Data Type Created |
| 24 | 8 | Character | Data Creation Date (YYYYMMDD) |
| 32 | 8 | Character | Data Load Date (YYYYMMDD) |
| 40 | 8 | Character | Data Load Time (HH:MM:SS) |
| 48 | 4 | Numeric | Data Length of Data Requested |
| 52 | 8 | Numeric | Number of data records in the file |
| 60 | 4 | Numeric | Number of Records per data type requested (0001) |
| 64 | Function Length | Numeric | Reserved filled with spaces for future use. |

Standard Message Starter

Attached is the listing of the initial 31 characters of most messages with the exception of the header, trailer and agent records.

| Position | Length | Format | Field Name | Description |
|----------|--------|-----------|--------------------------|--|
| 1-2 | 3 | Character | Message Type | The type of Message. The value is I01 (International). |
| 4-9 | 6 | Numeric | Message Sequence Number | Identifies the sequence number within the Message type. Initialized to 000001. |
| 10-10 | 1 | Character | Message Status Type | Indicates if DTC is adding a new message or updating an existing message. The values are: <ul style="list-style-type: none"> • A: Add • U: Update • M: Matured (only in I01 and D03 messages) <ul style="list-style-type: none"> ○ Master files have Message status type set to 'A' ○ Limited eligibility file has following values: <ul style="list-style-type: none"> • A: Add • C: Existing security |
| 11-19 | 9 | Character | Issue Identifier | The 9-character CUSIP number. |
| 20-31 | 12 | Character | International Identifier | The 12-character ISIN (International Securities Identification Number) number, if available. |

Programmer Notes

- Each message is 300 characters in length.
 - Currently all messages have filler that allows for additional data to be appended to the message.
 - Programs developed for messages should reflect that these filler components would be filled with data at some juncture.
 - » Programs should not abend if data is appended to the filler area of the message.
 - » Programs should be able to store and potentially retrieve data from these filler areas.
 - Should the entire message be filled, additional messages can be added to the message type that includes additional information.
- The Header message provides details regarding the file, date of creation.
- The Trailer message provides details on the number of records processed and indicates the end of file.
- Data Messages all start with the same initial 31 characters that provide the following information:
 - Message Type
 - » Referencing the type of message from the previous table.
 - » This allows the user to focus on (or disregard) messages that contain specific information of interest.

- » An alphanumeric identifier allows for expanding the number of message type for additional data.
- Message Sequence number
 - » This number is initialized at 000001.
 - » If additional data is required for a security, such as a series of events, these would be repeated and the counter incremented.
- Message Status Type
 - » Indicates whether the record is an add, change or security matured
- Security Identifier
 - » Every record contains the applicable issue or international identifier that is unique to that security.
 - » The inclusion of this identifier on each records offers the user maximum flexibility in downloading messages to different media such as spreadsheets or applications and parse the data.
 - The intent is to maximize the availability of the data both to mainframes and discrete applications and therein assisting organizations in standardizing information from DTC.
- Security maturity is handled as follows:
 - Note in the Standard Message Starter that securities that have matured are only designated in the Descriptive Message D03 (unless receiving the International message).
 - » M: Matured (only in I01 and D03 messages)
- Date Handling
 - » Oftentimes a date associated with a distribution is not provided to DTCC. In these cases, default values are supplied in the date fields and can be disregarded. These include the following values:
 - 00010101
 - 00010102
 - 99999999
 - 00000000
 - blank
 - » Securities that have a maximum maturity date, such as a perpetual bond, will have the following value:
 - 29991231

- The information contained in this service is derived from DTCC's mainframe systems which are compiled in EBCDIC. As such, certain values signaling positive and negative are presented in EBCDIC form. These "signed" fields are indicated by the value "S" prior to format (i.e. S9(7)V9(8)). The translations are listed below:

| Last Integer Value | Positive | Negative |
|--------------------|----------|----------|
| 0 | { | } |
| 1 | A | J |
| 2 | B | K |
| 3 | C | L |
| 4 | D | M |
| 5 | E | N |
| 6 | F | O |
| 7 | G | P |
| 8 | H | Q |
| 9 | I | R |

FILE DESCRIPTIONS AND ACRONYMS

Listed below are the files currently available. All files contain a series of messages grouped together, and include both header and trailer records. Volumes are reported in the average number of records to be expected. The descriptive and activity files are segmented by DTC Product types compiled from the DTC sub- issue types used for depository processing and defined in [Appendix II-DTC Security Classification](#).

Descriptive Update Files-Messages and Volumes

Listed below are the change files that can currently be requested.

| File Name | File Type | Security Type | Contains Records | Expected Volume |
|-----------|--------------------|---|--|-----------------|
| AMBCUP | Descriptive Change | Asset and Mortgage backed | H01, D01, D02, D03, D05, D06, A01, T01 | 2,000-5,000 |
| CRPCUP | Descriptive Change | Corporate Bond, Derivatives and Trusts | H01, D01, D02, D03, D05, D06, A01, T01 | 4,000-12,000 |
| EQTCUP | Descriptive Change | Equity and Equity Type | H01, D01, D02, D03, D05, D06, A01, T01 | 2,000-7,000 |
| GOVCUP | Descriptive Change | Government | H01, D01, D02, D03, D05, D06, A01, T01 | 500-4,000 |
| MMICUP | Descriptive Change | Money Market Instruments (CP, VRDO, MTNs, etc.) | H01, D01, D02, D03, D05, D06, A01, T01 | 7,000-20,000 |
| MUNCUP | Descriptive Change | Municipals | H01, D01, D02, D03, D05, D06, A01, T01 | 8,000-70,000 |

Descriptive Master Files-Messages & Volumes

Listed below are the master files that can be requested separately. Due to their large size, the files will only be generated on weekends and will require a pre-arranged scheduling with Data Services.

| File Name | File Type | Security Type | Contains Records | Expected Volume |
|-----------|--------------------|--|--|-----------------|
| AMBMST | Descriptive Master | Asset and Mortgage backed | H01, D01, D02, D03, D05, D06, A01, T01 | 7,000,00 |
| CRPMST | Descriptive Master | Corporate Bond, Derivatives and Trusts | H01, D01, D02, D03, D05, D06, A01, T01 | 10,000,000 |
| EQTMST | Descriptive Master | Equity and Equity Type | H01, D01, D02, D03, D05, D06, A01, T01 | 1,000,000 |

| File Name | File Type | Security Type | Contains Records | Expected Volume |
|-----------|--------------------|---|--|-----------------|
| GOVMST | Descriptive Master | Government | H01, D01, D02, D03, D05, D06, A01, T01 | 200,000 |
| MMIMST | Descriptive Master | Money Market Instruments (CP, VRDO, MTNs, etc.) | H01, D01, D02, D03, D05, D06, A01, T01 | 1,000,000 |
| MUNMST | Descriptive Master | Municipals | H01, D01, D02, D03, D05, D06, A01, T01 | 8,000,000 |

Agent Files-Messages and Volumes

Listed below are the files that can currently be requested

| File Name | File Type | Security Type | Contains Records | Expected Volume |
|-----------|--------------|--|------------------|-----------------|
| AGNTUP | Agent Update | Agent changes | H01, A02, T01 | 150 |
| AGNTMF | Agent Master | Listing of all agent information for MMIs only | H01, A02, T01 | 15,000 |
| NAMMMF | Agent Master | Listing of all agent information for non-MMIs | H01, A02, T01 | 48,000 |

Distribution Announcement Files-Messages

Listed below are Distribution (dividend, interest payments and forward splits) announcement files that are available. The specifications for these files are documented in Data Delivery Service-Distribution Announcements.

| File Name | File Type | Security Type | Contains Records |
|-----------|----------------------------|---|-------------------------|
| ANAMUP | Distribution Announcements | Asset and Mortgage backed | H01, E01, E02, E03, T01 |
| ANCBUP | Distribution Announcements | Corporate Bond, Derivatives and Trusts | H01, E01, E02, E03, T01 |
| ANEQUP | Distribution Announcements | Equity and Equity Type | H01, E01, E02, E03, T01 |
| ANGVUP | Distribution Announcements | Government | H01, E01, E02, E03, T01 |
| ANMMUP | Distribution Announcements | Money Market Instruments (CP, VRDO, MTNs, etc.) | H01, E01, E02, E03, T01 |

FILE DELIVERY

The files will be delivered via FTP (file transfer protocol) or NDM (Network Data Mover). Subscribers who request the file will be required to provide contact information to their Data Services or Relationship Management contact which will be forwarded to DTCC's Interface Planning Group (IPG).

Your e-mail should state the service(s) you are requesting and contain the following information.

- Official Company Name:
- Company Address:
- DTCC Sign-on/Participant Numbers: **to be confirmed or assigned by IPG**
- Contact Name:
- Contact Title:
- Contact Telephone Number:
- Contact E-mail Address:
- General Request Description: **Establish File delivery of**

If your firm currently communicates with DTC, please provide the sign-on/participant number used to receive/send information and specify whether a dial-up connection or dedicated line is used.

If you are a new user to DTCC and plan on using a dial-up, Interface Planning will forward information regarding establishing connectivity via ATT's AGNS network.

Your responses will be forwarded to the Interface Planning Group who manage the set-up of communications and coordinate the scheduling of the processes to make the files available.

- All DWIZ daily files (*change files) become available between 9-10 pm and are available for 20 hours. The only file that is not created daily is as follows:
 - NAMMMF-weekly, every Saturday at approximately 1am and will stay for the week.
- Master files will only be delivered via FTP.
- All master files are created on monthly basis, last Saturday of the month and are available for the next 2 weeks.

If additional Master files are needed, it should be scheduled on a pre-arranged basis with Data Services and the Interface Planning Group, minimum at least two weeks in advance. The files will be generated during a weekend and be available for pick-up the same day.

SUPPORT AND ASSISTANCE

If you have any questions regarding this document or any issue regarding the information or delivery thereof, please contact the Product Manager, the Data Services Sales Support or your Relationship Manager.

- **Product Manager:** Irina Molman
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- **Data Sales Support:**
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MESSAGE FORMATS

Header Message-H01

The Header message is the initial message attached to every file type.

| Position | Length | Format | Field Name | Description |
|----------|--------|-----------|-------------------------|--|
| 1-3 | 3 | Character | Message Type | Identifies the message type. The value is H01 (Header Message). |
| 4-9 | 6 | Character | Message Sequence Number | Identifies the sequence number within the message type. Initialized to 000001. |
| 10-17 | 8 | Numeric | File Date | The date the file was processed in CCYYMMDD format. |
| 18-25 | 8 | Character | File Name | The name of the file. The values are provided in the File Descriptions and Acronyms section. |
| 26-300 | 273 | Character | Filler | Reserved for future use. |

International Message-I01

The International Message is currently used exclusively for CSD's (Central Security Depositories).

| Position | Length | Format | Field Name | Description |
|----------|--------|-----------|---------------------------------|---|
| 1-3 | 3 | Character | Message Type | The type of Message. The value is I01 (International). |
| 4-9 | 6 | Numeric | Message Sequence Number | Identifies the sequence number within the Message type. Initialized to 000001. |
| 10-10 | 1 | Character | Message Status Type | Indicates if DTC is adding a new message or updating an existing message. The values are: <ul style="list-style-type: none"> • A: Add • U: Update • M: Matured |
| 11-19 | 9 | Character | Issue Identifier | The 9-character CUSIP number. |
| 20-31 | 12 | Character | International Identifier (ISIN) | The 12-character ISIN (International Securities Identification Number) number, if available. |

| Position | Length | Format | Field Name | Description |
|----------|--------|-----------|-----------------------------------|---|
| 32-91 | 60 | Character | Issuer Name | The first occurrence of the formal Issuer name appearing on the Prospectus or Offering Statement that is supplied to DTC during eligibility processing. This description provides a consistent issuer name across the issuance and issues. The Issuer or Issuing Agent may also provide the description if the security does not go through the eligibility process (e.g., for MBS securities). |
| 92-94 | 3 | Character | Issuer Country of Origin | The three-character ISO country code. The values are contained in Appendix IV-ISO Country Codes. |
| 95-95 | 1 | Character | Issue Type | The type of security. The values are: <ul style="list-style-type: none"> • 1: Equity • 5: Corporate Debt • 7: Municipal Debt. |
| 96-98 | 3 | Character | Sub-Issue Type | The type of issue or sub-issue used by DTC to classify a security. The values are contained in Appendix I-DTC Sub-Issue Types. |
| 99-99 | 1 | Character | Deliver Order Chill Activity Flag | Indicates whether the security is eligible for DTC Deliver Order activity. The values are: <ul style="list-style-type: none"> • Y: Yes • N: No. • Blank: Not Applicable/Not Available |
| 100-300 | 201 | Character | Filler | Reserved for future use. |

Issuer Message-D01

The Issuer Message contains Issuer information about the DTC search and short description, state and domicile of issuance.

| Position | Length | Format | Field Name | Description |
|----------|--------|-----------|-------------------------|--|
| 1-3 | 3 | Character | Message Type | The type of Message. The value is D01 (Issuer). |
| 4-9 | 6 | Numeric | Message Sequence Number | Identifies the sequence number within the message type. Initialized to 000001. |
| 10-10 | 1 | Character | Message Status Type | Indicates whether DTC is adding a new Message or updating an existing Message. The values are: <ul style="list-style-type: none"> • A: Add • U: Update |

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| Position | Length | Format | Field Name | Description |
|----------|--------|-----------|--|--|
| 11-19 | 9 | Character | Issue Identifier | The 9-character CUSIP number. |
| 20-31 | 12 | Character | International Identifier | The 12-character ISIN (International Securities Identification Number) number. |
| 32-34 | 3 | Character | State of Issuance | The two-digit state code for municipal and corporate securities issued in the United States, its territories and Canadian provinces. This field contains the state code of issuance for municipal securities, and the state code of incorporation for corporate securities. The values are contained in Appendix III-ISO United States & Canadian Provinces. |
| 35-37 | 3 | Character | Country of Issuance (Issuer Country of Origin) | The three-digit ISO country code (for non-United States and territory securities). The values are contained in Appendix IV-ISO Country Codes. |
| 38-97 | 60 | Character | Issuer Name | The first occurrence of the formal Issuer name appearing on the Prospectus or Offering Statement that is supplied to DTC during eligibility processing. This description provides a consistent issuer name across the issuance and issues. The Issuer or Issuing Agent may also provide the description if the security does not go through the eligibility process (e.g., for MBS securities). |
| 98-127 | 30 | Character | DTC Short Description | The abbreviated security description traditionally supplied in DTC files. |
| 128-133 | 6 | Character | Corresponding Base CUSIP | Under the DTC MMI discount numbering scheme program, issuers request dual base CUSIPs from the CUSIP Service Bureau. The base CUSIPs are assigned and used based upon leap year and subsequent even and odd years. These base CUSIP numbers allow the IPA to seamlessly issue and process transactions. The Corresponding Base CUSIP is the one associated with the selected security. Applicable for MMI securities only |
| 134-134 | 1 | Character | Corresponding Base CUSIP Check Digit | The check digit for the Corresponding Base CUSIP. Applicable for MMI securities only |
| 135-135 | 1 | Character | Base CUSIP Check Digit | The check digit for the current Base CUSIP. Applicable for MMI securities only |

| Position | Length | Format | Field Name | Description |
|----------|--------|-----------|-----------------------------------|---|
| 136-136 | 1 | Character | Spanish Tax Withholding Indicator | <p>Indicates whether the security is subject to Spanish Tax Withholding regulations.</p> <p>Values:</p> <ul style="list-style-type: none"> “Y”-Subject to Spanish Tax Withholding regulations <hr/> <p>Note:</p> <p>To limit Spanish tax withholding, client name and country of residence will be disclosed to the Issuer/Spanish Govt. DO NOT PURCHASE IF YOU DO NOT CONSENT.</p> <hr/> <ul style="list-style-type: none"> ‘N’, Blank: Not Applicable, Not Available <p>Under Spanish tax regulation, investors in preferred securities, senior notes or subordinated notes listed on an organized market in an OECD country, with no tax residency in Spain and not acting through a permanent establishment in Spain, are exempt from the Spanish Non-resident Income Tax (“NRIT”), provided certain information obligations relating to identity and residence of beneficial owners entitled to receive distributions are complied with. If these information obligations are not complied with, Spanish issuers have to withhold the NRIT.</p> |
| 137-300 | 164 | Character | Filler | Reserved for future use. |

Issuance Message-D02

The Issuance Message contains issue date, currency, and issuance amount information.

| Position | Length | Format | Field Name | Description |
|----------|--------|-----------|-------------------------|---|
| 1-3 | 3 | Character | Message Type | The type of Message. The value is D02 (Issuance). |
| 4-9 | 6 | Numeric | Message Sequence Number | Identifies the sequence number within the message type. Initialized to 000001. |
| 10-10 | 1 | Character | Message Status Type | <p>Indicates whether DTC is adding a new message or updating an existing message. The values are:</p> <ul style="list-style-type: none"> A: Add U: Update |
| 11-19 | 9 | Character | Issue Identifier | The 9-character CUSIP number. |

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| Position | Length | Format | Field Name | Description |
|----------|--------|-----------|---|--|
| 20-31 | 12 | Character | International Identifier (ISIN) | The 12-character ISIN (International Securities Identification Number) number. |
| 32-39 | 8 | Character | Expected Issue Date | Currently populated with Dated Date The date when the security is released or sold; for equity securities in CCYYMMDD format. For MMI-eligible securities the Message date is equivalent to the issue date. |
| 40-42 | 3 | Character | Issuance Currency | The three-character ISO currency code of the certificate. The values are contained in Appendix V-ISO Currency Codes. |
| 43-45 | 3 | Character | Income Currency | The three-character ISO currency code in which income would be paid for a security. The values are contained in Appendix V-ISO Currency Codes. |
| 46-58 | 13 | Numeric | Original Issuance Amount | The original offering amount that does not include the over allotment of shares in the new issue. This amount typically applies to municipals and is always blank for MMI programs. In whole number format. |
| 59-69 | 11 | Numeric | Offering Shares | The number of shares initially issued for this security; for equity issues in whole number format. |
| 70-76 | 7 | Numeric | Offering Price | The original offering share price; for equity issues in 9(4)V9(3) format. |
| 77-77 | 1 | Character | IPO Tracking Indicator | A value that indicates whether a lead manager requested IPO tracking for this security. The values are: <ul style="list-style-type: none"> • Y: Yes • N: No • Blank: Not Applicable/Not Available |
| 78-85 | 8 | Numeric | IPO Start Date | The start date of the IPO tracking, in CCYYMMDD format. Field will populate if IPO Tracking Indicator is "Y" |
| 86-86 | 1 | Character | DTC Eligibility Indicator-obsolete field, not supported | A value that indicates whether the security is eligible for DTC's services. The values are: <ul style="list-style-type: none"> • Y: Yes • N: No • Blank: Not Applicable/Not Available |
| 87-94 | 8 | Numeric | Prospectus Received | The date that DTC received a Prospectus or Offering Statement for a given security. Displayed in CCYYMMDD format. |

| Position | Length | Format | Field Name | Description |
|----------|--------|-----------|-----------------------|---|
| 95-103 | 9 | Numeric | Minimum Denomination | A numeric minimum denomination for trading (typically the number of shares or bonds or the principal amount), in whole number format. |
| 104-112 | 9 | Numeric | Multiple Denomination | A numeric amount of issuance for uniquely denominated securities, in whole number format. |
| 113-113 | 1 | Character | Issuance Indicator | Indicates whether the issuance is original or secondary. The values are: <ul style="list-style-type: none"> • O: Original • S: Secondary • Blank: Not Applicable/Not Available |
| 114-114 | 1 | Character | Issue Status Code | First Payment Indicator Possible values are: <ul style="list-style-type: none"> • S = Short First Payment • L = Long First Payment Y = Yearly • E = Payment Omitted D = Default • X = Extra Long • P = Possible default • Space = First Payment is Regular/not applicable/not available |
| 115-300 | 186 | Character | Filler | Reserved for future use |

Issue Message-D03

The Issue Message contains specific coupon, maturity, registration, exchange, issue amount and amount outstanding information.

| Position | Length | Format | Field Name | Description |
|----------|--------|-----------|--------------------------|--|
| 1-3 | 3 | Character | Message Type | The type of Message. The value is D03 (Issue). |
| 4-9 | 6 | Numeric | Message Sequence Number | Identifies the sequence number within the message type. Initialized to 000001. |
| 10-10 | 1 | Character | Message Status Type | Indicates whether DTC is adding a new message or updating an existing message. The values are: <ul style="list-style-type: none"> • A: Add • U: Update • M: Matured |
| 11-19 | 9 | Character | Issue Identifier | The 9-character CUSIP number. |
| 20-31 | 13 | Character | International Identifier | The 12-character ISIN (International Securities Identification Number) number. |

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| Position | Length | Format | Field Name | Description |
|----------|--------|-----------|--|--|
| 32-44 | 13 | Numeric | Amount Outstanding- obsolete, defaulted to zeroes | The number of securities (either par amount or shares) that DTC "Cede & Co" is listed as the holder of record, in whole number format. This is listed in par amount for fixed income securities and shares for equity securities. |
| 45-51 | 7 | Numeric | Coupon/Interest Rate | The coupon or interest rate. This field does not appear for equity securities. The rate is in 9(3)V9(4)format. The field is zero-filled for discount program MMI securities and others without a rate. For variable rate securities, the value is indicated as one cent. |
| 52-59 | 8 | Numeric | Maturity Date | The maturity date in CCYYMMDD format. |
| 60-67 | 8 | Numeric | Dated Date/ | Dated Date-Date from which Interest starts accruing for debt instruments in CCYYMMDD format: |
| 68-68 | 1 | Character | Registration Type | The registration type of a security. The values are: <ul style="list-style-type: none"> • B: Bearer • E, U, X: Book Entry • A, D, I: Interchangeable • M, R: Fully Registered. |
| 69-69 | 1 | Character | Taxable Indicator | A value that indicates whether the security is subject to federal income taxes; for municipal securities only. The values are: <ul style="list-style-type: none"> • Y: Yes • N: No • Blank: Not Applicable/Not Available. |
| 70-70 | 1 | Character | Rule 144A Indicator | A value that indicates whether a security is issued under SEC Rule 144A as a private placement. The values are: <ul style="list-style-type: none"> • Y: Yes • N: No • Blank: Not Applicable/Not Available. |
| 71-71 | 1 | Character | Regulation S Indicator | A value that indicates whether the security is subject to Regulation S of the Federal Reserve Board. The values are: <ul style="list-style-type: none"> • Y: Yes • N: No • Blank: Not Applicable/Not Available. |

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| Position | Length | Format | Field Name | Description |
|--------------|-----------|------------------|---|--|
| 72-72 | 1 | Character | Rule 3c-7 Indicator | A value that indicates whether a security is relying on the exemption from Section 3(C.)(7) of the Investment Company Act of 1940. The values are: <ul style="list-style-type: none"> • Y: Yes • N: No • Blank: Not Applicable/Not Available. |
| 73-80 | 8 | Numeric | First Interest Pay Date- defaulted to zeroes | The first interest pay date for a fixed income security, in <i>CCYYMMDD</i> format. |
| 81-90 | 10 | Character | Ticker Symbol | An arrangement of characters (usually letters) representing a particular security listed on an exchange or otherwise traded publicly. Only the Primary Exchange Ticker Symbol is displayed. |
| 91-105 | 15 | Character | Exchange | The exchange on which the security you want information about is listed. The values are: <ul style="list-style-type: none"> • AMEX: American Stock Exchange • NYSE: New York Stock Exchange • OTC: Over the Counter • NASDAQ: National Association of Securities Dealers Automated Quote. • Blank: Not applicable/Not available |
| 106-115 | 10 | Character | Pool ID | The identifier applied to mortgage-backed securities. |
| 116-116 | 1 | Character | Global Issue | A value that indicates whether the security uses foreign clearance or settlement. The values are: <ul style="list-style-type: none"> • Y: Yes • N: No • Blank: Not Applicable/Not Available. |
| 117-117 | 1 | Character | Issue Type | Identifies the type of security. The values are: <ul style="list-style-type: none"> • 1: Equity • 5: Corporate Debt • 7: Municipal Debt. |
| 118-120 | 3 | Character | Sub-Issue Type | The type of issue or sub-issue used by DTC to classify a security. The values are contained in Appendix I-DTC Sub-Issue Types. |
| 121-121 | 1 | Character | Put Indicator | A value that indicates whether the issue has a put feature. The values are: <ul style="list-style-type: none"> • Y: Yes • N: No • Blank: Not Applicable/Not Available. |

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| Position | Length | Format | Field Name | Description |
|----------|--------|-----------|---|---|
| 122-122 | 1 | Character | Call Indicator | A value that indicates whether the issue is subject to a call redemption. The values are: <ul style="list-style-type: none"> • Y: Yes • N: No • Blank: Not Applicable/Not Available. |
| 123-123 | 1 | Character | Sinking Fund Indicator | A value that indicates whether a sinking fund provision applies to this security. The values are: <ul style="list-style-type: none"> • Y: Yes • N: No • Blank: Not Applicable/Not Available. |
| 124-124 | 1 | Character | Prerefunded Indicator | A value that indicates whether an issue has funds that have been put aside to redeem the issue at its earliest call date. The values are: <ul style="list-style-type: none"> • Y: Yes • N: No • Blank: Not Applicable/Not Available. |
| 125-125 | 1 | Character | Principal Amortization Indicator | A value that indicates whether the principal is subject to amortization. The values are <ul style="list-style-type: none"> • Y: Yes • N: No • Blank: Not Applicable/Not Available. |
| 126-126 | 1 | Character | Indexed Principal Indicator (MMIs Only) | A value that indicates whether the interest payments are linked to an index. The values are: <ul style="list-style-type: none"> • Y: Yes • N: No • Blank: Not Applicable/Not Available. |
| 127-127 | 1 | Character | Renewable Note Indicator (MMIs Only) | A value that indicates whether a MTN has a renewable feature. The values are: <ul style="list-style-type: none"> • Y: Yes • N: No • Blank: Not Applicable/Not Available. |
| 128-128 | 1 | Character | Interest Step-up Indicator (MMIs Only) | A value that indicates whether the security has an interest rate step-up feature. The values are: <ul style="list-style-type: none"> • Y: Yes • N: No • Blank: Not Applicable/Not Available. |
| 129-129 | 1 | Character | Interest Reset Indicator (MMIs Only) | A value that indicates whether the security has a rate reset feature. The values are: <ul style="list-style-type: none"> • Y: Yes • N: No • Blank: Not Applicable/Not Available. |

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| Position | Length | Format | Field Name | Description |
|----------|--------|-----------|--|---|
| 130-130 | 1 | Character | Changeable Payment Indicator (MMIs Only) | A value that indicates whether the security can modify the payment amount or date. The values are: <ul style="list-style-type: none"> • Y: Yes • N: No • Blank: Not Applicable/Not Available. |
| 131-143 | 13 | Numeric | Issue Amount | The amount issued specific to this security, in whole number format. Often a subset of the Original Issuance. |
| 144-144 | 1 | Character | Foreign Ordinary Processing Indicator | A value that indicates whether the security is eligible for foreign ordinary processing. The values are: <ul style="list-style-type: none"> • Y: Yes • N: No • Blank: Not Applicable/Not Available. |
| 145-146 | 2 | Character | MBS Product ID | Describes the Different Types of MBS Bonds: For Values See Appendix VI. |
| 147-148 | 2 | Character | MBS Category ID | The Classification of the different terms that apply to MBS Bonds. For Values See Appendix VI. |
| 149-149 | 1 | Character | Tax Credit in Lieu of Interest Indicator | This field identifies whether a security is a Build America Bond that has a Tax Credit feature. <p>The values are:</p> <ul style="list-style-type: none"> • 'Y'—yes • 'N'—no |
| 150-150 | 1 | Character | Tax Credit Bond Type | This field identifies the payment features associated with a Tax Credit security. <p>The values are:</p> <ul style="list-style-type: none"> • '1'—combo for redemption and tax credit, • '2'—combo for redemption, tax credit and interest • '3'—strip for tax credit • '4'—strip for redemption • '5'—strip for redemption and interest • '6'—strip for interest <p>Only applies to Build America Bond</p> |
| 151-159 | 9 | Numeric | Tax Credit Rate | This field will contain the actual Tax Credit rate for the security. The first three digits represent dollars. The last six digits in the field represent cents. |
| 160-162 | 3 | Numeric | Tax Credit Record Date—Number of Days | This is the number of days the record date is going to be offset from the payment date. |

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| Position | Length | Format | Field Name | Description |
|----------|--------|-----------|---|---|
| 163-163 | 1 | Character | Tax Credit Record Date- Number of Days- Business/Calendar Indicator | This indicates whether the Record Date offset is specified as number of business or calendar days. Values: <ul style="list-style-type: none"> • 'B': business • 'C': calendar • Blank: Not applicable |
| 164-171 | 8 | Character | Tax Credit Record Date- Fixed Date | This is the two pre-established record dates for the security (the first four bytes contain the first record date with a format MMDD, and the last four bytes contain the second record date with the same format MMDD). Format MMDDMMDD |
| 172-172 | 1 | Character | Tax Credit Payment Frequency | This is the stated frequency for payments for the security. Values: <ul style="list-style-type: none"> • '1': Annual • '2': semi-annual • '4': quarterly • '8': monthly • Blank: Not applicable |
| 173-180 | 8 | Character | Tax Credit First Payment Date | This is the date when the first interest payment on this security is due. Format CCYMMDD Blank: Not applicable |
| 181-181 | 1 | Character | Stock for Maturity Indicator | This field indicates whether a bond has the option to pay Maturity proceeds as Stock instead of Cash. The values: <ul style="list-style-type: none"> • 'Y'—yes • 'N'—no |
| 182-182 | 1 | Character | Extended Maturity Indicator | This field indicates whether a bond has the option of extending its stated Maturity Date. The values: <ul style="list-style-type: none"> • 'Y'—yes • 'N'—no |
| 183-183 | 1 | Character | Sovereign Debt Indicator | This field identifies a bond as being Sovereign Debt—issued by a non-US Sovereign entity. The values: <ul style="list-style-type: none"> • 'Y'—yes • 'N'—no |

| Position | Length | Format | Field Name | Description |
|----------|--------|-----------|------------|--------------------------|
| 184-300 | 117 | Character | Filler | Reserved for future use. |

Descriptive Message-D05

The Descriptive Message contains formal issuance description information derived from DTC's eligibility process. This description comes from the prospectus or offering filing. In some cases, this description is supplied to DTC directly from contributors such as the MMI system and, therefore, may not represent a formal description.

| Position | Length | Format | Field Name | Description |
|----------|--------|-----------|--------------------------|--|
| 1-3 | 3 | Character | Message Type | The type of Message. The value is D05 (Descriptive). |
| 4-9 | 6 | Numeric | Message Sequence Number | Identifies the sequence number within the message type. Initialized to 000001. |
| 10-10 | 1 | Character | Message Status Type | Indicates whether DTC is adding a new message or updating an existing message. The values are: <ul style="list-style-type: none"> • A: Add • U: Update. |
| 11-19 | 9 | Character | Issuer Identifier | The 9-character CUSIP number. |
| 20-31 | 12 | Character | International Identifier | The 12-character ISIN (International Securities Identification Number) number. |
| 32-91 | 60 | Character | Issue Description | The security description, which is the formal Issuer name appearing on the Prospectus or Offering Statement that is supplied to DTC during eligibility processing. The Issuer or Issuing Agent may also provide the description if the security does not go through the eligibility process (e.g., for MBS securities). This field consists of the first of the four lines (60 bytes each) of information. |
| 92-271 | 180 | Character | Issue Description | This field consists of the next three of the four lines (60 bytes each) of information. |
| 272-300 | 29 | Character | Filler | Reserved for future use. |

Depository Status Message-D06

The Depository Status Message contains DTC processing and status information for the security.

| Position | Length | Format | Field Name | Description |
|----------|--------|--------|------------|-------------|
|----------|--------|--------|------------|-------------|

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| Position | Length | Format | Field Name | Description |
|----------|--------|-----------|--|---|
| 1-3 | 3 | Character | Message Type | The type of Message. The value is D06 (Depository Status). |
| 4-9 | 6 | Numeric | Message Sequence Number | Identifies the sequence number within the message type. Initialized to 000001. |
| 10-10 | 1 | Character | Message Status Type | Indicates whether DTC is adding a new message or updating an existing message. The values are: <ul style="list-style-type: none"> • A: Add • U: Update. |
| 11-19 | 9 | Character | Issue Identifier | The 9-character CUSIP number. |
| 20-31 | 12 | Character | International Identifier | The 12-character ISIN (International Securities Identification Number) number. |
| 32-32 | 1 | Character | Same Day Fund Settlement Eligibility Indicator—obsolete field, not supported | A value that indicates whether the security is eligible to settle in same-day funds. The values are: <ul style="list-style-type: none"> • Y: Yes • N: No Blank: Not Applicable/Not Available. |
| 33-33 | 1 | Character | FAST COD & WT | FAST COD & WT-A value that indicates if the issue is eligible for DTC's FAST COD & WT (Full FAST) service. The values are: <ul style="list-style-type: none"> • Y: Yes—Full Fast • N: No—Not Full Fast |
| 34-34 | 1 | Character | Dividend Reinvestment Service Eligibility Indicator | A value that indicates whether the CUSIP is eligible for DTC's Dividend Reinvestment service. The values are: <ul style="list-style-type: none"> • Y: Yes • N: No • Blank: Not Applicable/Not Available. |
| 35-35 | 1 | Character | Custody Service Eligibility Indicator | A value that indicates whether the CUSIP is eligible for DTC's Custody service. The values are: <ul style="list-style-type: none"> • Y: Yes • N: No • Blank: Not Applicable/Not Available. |
| 36-36 | 1 | Character | Federal Book-Entry Eligibility Indicator | A value that indicates whether the CUSIP is Fed Book eligible. The values are: <ul style="list-style-type: none"> • Y: Yes • N: No • Blank: Not Applicable/Not Available. |

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| Position | Length | Format | Field Name | Description |
|----------|--------|-----------|---|---|
| 37-37 | 1 | Character | Direct Registration Eligibility Indicator | A value that indicates whether the CUSIP is eligible for DTC's Direct Registration service. The values are: <ul style="list-style-type: none"> • Y: Yes • N: No • Blank: Not Applicable/Not Available. |
| 38-38 | 1 | Character | Communications Issue Indicator | A value that indicates whether the issue is a communications issue. Valid values are: <ul style="list-style-type: none"> • Y: Yes • N: No • Blank: Not Applicable/Not Available. |
| 39-39 | 1 | Character | Deposit Activity Chill Indicator | Indicates that this security is locked from any deposit activity at DTC. The values are: <ul style="list-style-type: none"> • Y: Yes • N: No |
| 40-40 | 1 | Character | Chill COD | Indicates that this security is locked from any COD (Certificate on demand) activity at DTC. The values are: <ul style="list-style-type: none"> • Y: Yes • N: No. |
| 41-41 | 1 | Character | Chill WT | Indicates that this security is locked from any WT (withdrawals-by-transfer) activity at DTC. The values are: <ul style="list-style-type: none"> • Y: Yes • N: No |
| 42-42 | 1 | Character | Chill DO | Indicates that this security is locked from any DO (Deliver Order) activity at DTC. The values are: <ul style="list-style-type: none"> • Y: Yes • N: No |
| 43-43 | 1 | Character | Chill Segregation | Indicates that this security is locked from any segregation activity at The values are: <ul style="list-style-type: none"> • Y: Yes • N: No |
| 44-44 | 1 | Character | Pledge Chill Indicator | Indicates that this security is locked from any pledge activity at DTC. The values are: <ul style="list-style-type: none"> • Y: Yes • N: No |

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| Position | Length | Format | Field Name | Description |
|----------|--------|-----------|--|---|
| 45-45 | 1 | Character | Thin Issue Indicator | A value that indicates whether the issue is a thin issue. Valid values are: <ul style="list-style-type: none"> • Yes • No • Blank: Not Applicable/Not Available |
| 46-65 | 20 | Character | Reserved | Reserved for future use. |
| 66-66 | 1 | Character | Fractional Dollars/Cents Eligible | Indicates if the security can contain Fractional Share/amount component. The values are: <ul style="list-style-type: none"> • Yes • No • Blank: Not Applicable/Not Available. <p>A fractional share is a unit of stock that is less than one full share. (e.g., if a shareholder participates in a dividend reinvestment program and the dividends being reinvested are not enough to purchase a full share at the market price, the shareholder will be credited with a fractional share until enough dividends accrue to purchase one full share.)</p> |
| 67-67 | 1 | Character | Segregation 100 Number Eligibility Indicator | A value that indicates whether the issue is a segregated 100 issue. Valid values are: <ul style="list-style-type: none"> • Y: Yes • N: No • Blank: Not Applicable/Not Available. |
| 68-68 | 1 | Character | Auto Certification Eligibility Indicator | A value that indicates whether the issue is eligible for DTC's auto certification program. Valid values are: <ul style="list-style-type: none"> • Y: Yes • N: No • Blank: Not Applicable/Not Available. |
| 69-69 | 1 | Character | Non-Transferable Issue | Information about the status of whether a security can be moved or transferred between participants. |
| 70-70 | 1 | Character | Record Date Weekend/Holiday Indicator | Indicates the method by which the record date will be adjusted if it falls on a holiday or weekend. The values are: <ul style="list-style-type: none"> • B: Before • A: After. • Blank: Not Applicable/Not Available |

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| Position | Length | Format | Field Name | Description |
|----------|--------|-----------|--|---|
| 71-71 | 1 | Character | Record Date Business/Calendar Indicator | Indicates whether the Record Date offset is specified as number of business or calendar days. The values are: <ul style="list-style-type: none"> • B: Business • C: Calendar. • Blank: Not Applicable/Not Available |
| 72-119 | 48 | Character | DTC Description (Long) | The 48-character DTC issue description. |
| 120-139 | 20 | Character | DTC Description (Short) | The 20-character DTC short issue description, typically system generated. |
| 140-147 | 8 | Character | Vault Location | The location of securities held by Cede & Co. |
| 148-150 | 3 | Character | Coupon Number | The next Coupon Number (applicable for Bearer and Interchangeable certificates) |
| 151-151 | 1 | Character | Networking for Equities Indicator | Indicates whether the security is eligible for DTCC's Networking for Equities program. Values: <ul style="list-style-type: none"> • N: Security is not eligible for the Networking for Equities program • Y: Security is eligible for the Networking for Equities program |
| 152-152 | 1 | Character | FAST WT | FAST WT-A value that indicates if the issue is eligible for DTC's FAST WT service only. The values are: <ul style="list-style-type: none"> • Y: Yes • N: No |
| 153-153 | 1 | Character | Book Entry Only Security DRS Eligibility Indicator | <ul style="list-style-type: none"> • "0" = Security is eligible for "WT" in statement form only at DTC. Certificates are available at the transfer agent. • "1" = Security is eligible for "WT" in statement form only. • "2" = Security is DRS eligible but not participating. Certificates only are available. <p>NOTE: A "space" in this field indicates that the issue is not DRS-eligible.</p> |
| 154-154 | 1 | Character | Filler | Reserved for future use. |

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| Position | Length | Format | Field Name | Description |
|----------|--------|-----------|------------------------------------|---|
| 155-155 | 1 | Character | OA Rate Timelines Attestation Code | <p>The values:</p> <ul style="list-style-type: none"> • '1'—Conforming CUSIP • '2', '3'—Nonconforming CUSIP <p>This field is applicable only for CMO and ABS</p> <p>Where:</p> <ul style="list-style-type: none"> • Conforming means that this security is structured in a way that makes it likely for the final rate to be calculated and disseminated to DTC prior to the payable date. <p>and</p> <ul style="list-style-type: none"> • Non-conforming means that this security is structured in a way that makes it unlikely for the final rate to be calculated and disseminated to DTC prior to the payable date. |
| 156-156 | 1 | Character | CNS Eligibility Indicator | <p>Indicates whether a security is eligible for Continuous Net Settlement (CNS) through NSCC</p> <p>Valid values are:</p> <ul style="list-style-type: none"> • Y: Yes • N: No |
| 157-157 | 1 | Character | OFAC Sanctioned Indicator | <p>Indicates if security is restricted due to OFAC sanctions</p> <p>Valid values are:</p> <ul style="list-style-type: none"> • Y: Yes • N: No |
| 158-158 | 1 | Character | Global Lock Indicator | <p>This field indicates if the security is frozen and globally locked from any activity at DTC.</p> <p>Valid values are:</p> <ul style="list-style-type: none"> • Y—Yes, the Security is globally locked • N—No, the Security is not globally locked |
| 159-159 | 1 | Character | Global Lock Reason | <p>This field provides a reason for the Global Lock. Valid values are space and from 0 to 9:</p> <p>Space—Security is not globally locked. Reason is not applicable.</p> <ul style="list-style-type: none"> • 0—DTCC Applied Global Lock. • 1—DTCC Applied Global Lock-Compliance Related <p>Values 2 through 9 are reserved for future use</p> |

| Position | Length | Format | Field Name | Description |
|----------|--------|-----------|-------------------------------|---|
| 160-207 | 48 | Character | Unit Component Ratio Text Box | Specifies the ratio of units to each of its components. Applicable for sub-issue types '780' Equity Unit' (Equity Issue type) and '781' Debt Unit' (Corporate Bond Issue type) |
| 208-208 | 1 | Character | Deposit Chill Reason | This field provides a reason for the Deposit Chill. Valid values are space and from 0 to 9: Space-Security does not have a Deposit Chill. Reason is not applicable. <ul style="list-style-type: none"> 0-DTCC Applied Deposit Chill. 1-DTCC Applied Deposit Chill-Compliance Related. Values 2 through 9 are reserved for future use. |
| 209-209 | 1 | Character | 871(m) Transaction | Indicates if security is subject to regulation 871(m). Valid values: <ul style="list-style-type: none"> 'Y'-yes, 'N'-no, space-not applicable/not available |
| 210-210 | 1 | Character | Contract Type | Contract Type for 871(m) Transaction. Valid values: 'S'-Simple <ul style="list-style-type: none"> 'C'-Complex Space-not applicable |
| 211-217 | 7 | Numeric | Delta | Value of Delta for Simple Contract Type (The "delta" of an instrument is a measure of the relationship between changes in value of the instrument and changes in value of the underlying stock). Delta is in 9(1)V9(6) format, up to 6 decimal points. Valid values from 0800000 (0.8) to 1000000 (1.0) Default = zeroes |
| 218-300 | 83 | Character | Filler | Reserved for future use. |

Agent Message-A01

The Agent Message identifies the agent(s) involved with the security. The agent identifier is blank if an agent is not applicable for a given security.

| Position | Length | Format | Field Name | Description |
|----------|--------|--------|------------|-------------|
|----------|--------|--------|------------|-------------|

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| Position | Length | Format | Field Name | Description |
|----------|--------|-----------|--|--|
| 1-3 | 3 | Character | Message Type | The type of Message. The value is A01 (Agent). |
| 4-9 | 6 | Numeric | Message Sequence Number | Identifies the sequence number within the message type. Initialized to 000001. |
| 10-10 | 1 | Character | Message Status Type | Indicates whether DTC is adding a new message or updating an existing message. The values are: <ul style="list-style-type: none"> • A: Add • U: Update |
| 11-19 | 9 | Character | Issue Identifier | The 9-character CUSIP number. |
| 20-31 | 12 | Character | International Identifier | The 12-character ISIN (International Securities Identification Number) number. |
| 32-39 | 8 | Character | DDA Agent ID | The identification number of the Dividend Disbursing Agents that are registered for this security. |
| 40-40 | 1 | Character | MMI Indicator For Paying Agent | Indicates whether the Paying Agent is an MMI Paying Agent, and their identification number is actually a Participant ID. The values are: <ul style="list-style-type: none"> • Y: Yes • N: No • Blank: Not Applicable/Not Available. |
| 41-48 | 8 | Character | Paying Agent ID | The identification numbers of the Paying Agents that are registered for this security. |
| 49-56 | 8 | Character | Transfer Agent ID | The identification numbers of the Transfer Agents that are registered for this security. |
| 57-64 | 8 | Character | Remarketing Agent ID | The identification numbers of the Remarketing Agents that are registered for this security. The Remarketing Agent ID is the same as a participant ID. |
| 65-72 | 8 | Character | Redemption Agent ID | The identification numbers of the Redemption Agents that are registered for this security. |
| 73-80 | 8 | Character | Conversion Agent ID— obsolete, not populated | The identification numbers of the Conversion Agents that are registered for this security. |
| 81-88 | 8 | Character | Information Agent ID— obsolete, not populated | The identification numbers of the Information Agents that are registered for this security. |
| 89-96 | 8 | Character | Exchange Agent ID— obsolete, not populated | The identification numbers of the Exchange Agents that are registered for this security. |
| 97-104 | 8 | Character | Trustee Agent ID | The identification numbers of the Trustee Agents that are registered for this security. |

| Position | Length | Format | Field Name | Description |
|----------|--------|-----------|-------------------------------------|---|
| 105-112 | 8 | Character | Tender Agent ID | The identification numbers of the Tender Agents that are registered for this security. |
| 113-113 | 1 | Character | MMI Indicator For The Issuing Agent | Indicators that are set by the Issuing Agent. This appears only when the security is an MMI. This is required because the Agent ID for MMIs is actually the participant ID. |
| 114-121 | 8 | Character | Issuing Agent | The names and identification numbers of the Issuing Agents that are registered for this security. The Agents are grouped by function. |
| 122-129 | 8 | Character | DTC T/A Drop Agent ID | The names and identification numbers of the DTC Transfer Agents that are registered for this security. The Agents are grouped by function. |
| 130-137 | 8 | Character | External Custodian Agent | The identification numbers of the External Custodian Agents that are registered for this security |
| 138-300 | 163 | Character | Filler | Reserved for future use. |

Agent Descriptive Message-A02

The Agent Descriptive Message contains the DTC Agent ID, firm name, and address.

| Position | Length | Format | Field Name | Description |
|----------|--------|-----------|-------------------------|---|
| 1-3 | 3 | Character | Message Type | Identifies the message type. The value is A02 (Agent Descriptive Master Message). |
| 4-9 | 6 | Character | Message Sequence Number | Identifies the activity type of the Agent sorted in the alphabetical order. Initialized to 000001. |
| 10-10 | 1 | Character | Message Status Type | Indicates whether DTC is adding a new message or updating an existing message. The values are: <ul style="list-style-type: none"> • A: Add • U: Update. |
| 11-19 | 9 | Character | Filler | Reserved for future use. |
| 20-31 | 12 | Character | Filler | Reserved for future use. |
| 32-39 | 8 | Character | Agent ID | The DTC identification number for an agent. |
| 40-41 | 2 | Character | Agent Type | Agent Type |

| Position | Length | Format | Field Name | Description |
|----------|--------|-----------|------------------------|--|
| | | | | <ul style="list-style-type: none"> '01' = Transfer Agent '02' = Paying Agent (non-MMI and MMI) '03' = Redemption Agent '04' = DDA '05' = Trustee '31' = Tender Agent '32' = Remarketing Agent '55' = MMI Issuing Agent |
| 42-89 | 48 | Character | Agent Name | The firm name for the agent |
| 90-137 | 48 | Character | Agent Address 1 | The street or suite address for the agent. |
| 138-185 | 48 | Character | Agent Address 2 | The street or suite address for the agent. |
| 186-205 | 20 | Character | Agent City | The city for the agent. |
| 206-208 | 3 | Character | Agent State | The state of operation for the agent. See ISO Code- Appendix III for further information. |
| 209-211 | 3 | Character | Agent Country | Country of operation for Agent. See Appendix IV-ISO Country Codes for further information. |
| 212-220 | 9 | Character | Agent Zip | The Postal Zip code. |
| 221-229 | 9 | Number | ABA Number | The American Bankers Association Number (if applicable). |
| 230-234 | 5 | Number | Agent Postal Code | The five-digit Postal Zip Code. |
| 235-235 | 1 | Character | Participant Agent Flag | Indicates whether the agent ID is also a Participant ID in the case of transfer or MMI Agents. The values are: <ul style="list-style-type: none"> Y = Yes N = No Blank = No |
| 236-300 | 65 | Character | Filler | Reserved for future use. |

Limited Eligibility Message-L01

This message type will only appear in the LTDMST file.

| Position | Length | Format | Field Name | Description |
|----------|--------|-----------|--------------|---|
| 1-3 | 3 | Character | Message Type | The type of Message. The value is L01 (Limited Elig). |

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| Position | Length | Format | Field Name | Description |
|----------|--------|-----------|--------------------------|---|
| 4-9 | 6 | Numeric | Message Sequence Number | Identifies the sequence number within the message type. Initialized to 000001. |
| 10-10 | 1 | Character | Message Status Type | Indicates whether DTC is adding a new message or updating an existing message. The values are: <ul style="list-style-type: none"> • A: Add • C: Existing security |
| 11-19 | 9 | Character | Issue Identifier | The 9-character CUSIP number. |
| 20-31 | 12 | Character | International Identifier | The 12-character ISIN (International Securities Identification Number) number. |
| 32-32 | 1 | Character | Limited Eligibility flag | Indicates whether or not the security is a "Limited Eligibility" Security <ul style="list-style-type: none"> • Y: Yes • N: No • Blank: N/A or not available. |
| 33-35 | 3 | Character | Eligibility country 1 | There can be up to 5 countries of eligibility. The three-digit ISO country code (for non-United States and territory securities) as a 3 char code will be used. Value will be spaces if no country is found. |
| 36-38 | 3 | Character | Eligibility country 2 | There can be up to 5 countries of eligibility. The three-digit ISO country code (for non-United States and territory securities) as a 3 char code will be used. Value will be spaces if no country is found. |
| 39-41 | 3 | Character | Eligibility country 3 | There can be up to 5 countries of eligibility. The three-digit ISO country code (for non-United States and territory securities) as a 3 char code will be used. Value will be spaces if no country is found. |
| 42-44 | 3 | Character | Eligibility country 4 | There can be up to 5 countries of eligibility. The three-digit ISO country code (for non-United States and territory securities) as a 3 char code will be used. Value will be spaces if no country is found. |
| 45-47 | 3 | Character | Eligibility country 5 | There can be up to 5 countries of eligibility. The three-digit ISO country code (for non-United States and territory securities) as a 3 char code will be used. Value will be spaces if no country is found. |

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

Trailer Message-T01

The Trailer Message is the last message that is attached to every file type.

| Position | Length | Format | Field Name | Description |
|----------|--------|-----------|-------------------------|--|
| 1-3 | 3 | Character | Message Type | Identifies the message type. The value is T01 (Trailer Message). |
| 4-9 | 6 | Character | Message Sequence Number | Identifies the sequence number within the message type. Initialized to 000001. |
| 10-17 | 8 | Numeric | Total Messages | The total number of messages on the file, including the header, detail, and trailer message types. |
| 18-300 | 283 | Character | Filler | Reserved for future use. |

APPENDIX I: DTC SUB-ISSUE TYPES

| Value | Description |
|---------|--|
| (blank) | Not Applicable |
| 000 | Not Applicable |
| 005 | Equity |
| 010 | Common Stock |
| 011 | Convertible Common Stock |
| 012 | Common Stock REIT |
| 020 | Preferred Stock |
| 022 | Preferred Stock REIT |
| 023 | Convertible Preferred Stock |
| 024 | Tender Rate Preferred Stock |
| 030 | Limited Partnership |
| 040 | CMO Denom in "Units" or "Undivided Interest" |
| 041 | ABS Denom in "Units" or "Undivided Interest" |
| 042 | Issue Denom in "Units" or "Undivided Interest" |
| 102 | Auction Rate Preferred Stock (ARPS) |
| 110 | American Depositary Receipt (ADR) |
| 111 | Depositary Share |
| 112 | Municipal Option Call Right |
| 117 | Exchange Traded Funds (ETF) |
| 120 | MMI Preferred Stock (in CP-like mode) |
| 121 | Equity 144A Designated Investors |
| 125 | Sealed Envelope |
| 126 | Custody User CUSIP |
| 127 | Non-Standard Asset User CUSIPs |

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| Value | Description |
|-------|--|
| 130 | Real-Estate Investment Trust (REIT) |
| 310 | Municipal Bond |
| 311 | Municipal Note |
| 312 | Municipal Auction Rate Note (ARN) |
| 313 | Municipal Variable Mode Obligation (VMO) |
| 314 | Municipal Variable Rate Demand Obligation (VRDO) |
| 315 | Municipal Insured Custodial Receipt |
| 320 | MMI Municipal VRDO/CP |
| 330 | MMI Municipal Commercial Paper |
| 340 | Bearer, Callable Zero Coupon Bond |
| 346 | Municipal Other Tax Exempt |
| 450 | GNMA REMIC |
| 451 | GNMA Pass through |
| 452 | GNMA Serial Note |
| 500 | Corporate Bond (CB) or Global Corp Bond (GCB) |
| 502 | MMI Bankers' Acceptance Note (BA) |
| 504 | MMI Institutional Certificates of Deposit |
| 505 | Certificated Money Market Instrument |
| 506 | Certificated Money Market–Periodic Payer |
| 507 | Certificates of Deposit |
| 510 | CPI Interest at Maturity (IAM) Commercial Paper |
| 511 | Periodic Payment Commercial Paper |
| 520 | CPI Discount Commercial Paper (CP) |
| 525 | MMI Corporate Commercial Paper |
| 526 | MMI Corporate VRDO/CP |
| 530 | MTN Medium Term Note |

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| Value | Description |
|-------|--|
| 531 | MMI Deposit Note |
| 532 | MMI Medium-Term Bank Note |
| 533 | MMI Medium Term Note |
| 532 | MMI Medium-Term Bank Note |
| 533 | MMI Medium Term Note |
| 540 | Collateralized Mtge Obligation or Global CMO |
| 541 | Asset-Backed Security (ABS) or Global ABS (GABS) |
| 542 | Non-CMO/ABS Amortizing Issue |
| 546 | Corporate Other Tax Exempt |
| 550 | MMI Short-Term Bank Note |
| 551 | Z CPN Denom in Initial Principal Amt |
| 560 | MMI Discount Note |
| 571 | Corporate Auction Rate Note |
| 572 | Convertible Corporate Debt |
| 573 | Corporate Variable Mode Obligation (CVMO) |
| 574 | Corporate Short-Term Note |
| 575 | Corporate Debenture |
| 576 | Corporate VRDO/Municipal VRDO (MMD) |
| 577 | Corporate Insured Custodial Receipt |
| 578 | Tender Rate Note |
| 579 | Zero Coupon Bond |
| 601 | Government Security |
| 602 | Government Trust Certificate |
| 603 | Junk and Treasury Growth Receipt (JGR) |
| 610 | US Treasury Security |
| 611 | US Treasury Bill |

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| Value | Description |
|-------|---|
| 612 | US Treasury Note |
| 613 | US Treasury Bond |
| 620 | US Government Agency Security |
| 700 | Package |
| 704 | Corporate Debt Derivative |
| 705 | Equity Derivative |
| 706 | Municipal Derivative |
| 708 | Municipal Amortized Issue |
| 710 | Option Derivative |
| 720 | Warrant |
| 730 | Right |
| 760 | Mutual Fund |
| 761 | Closed End Fund |
| 762 | (IMMI) Institutional MMI Mutual Fund Shares |
| 780 | Equity Unit |
| 781 | Debt Unit |
| 790 | Unit Investment Trust ((UIT)-Nuveen Only) |
| 791 | Global Unit Trust |
| 795 | Unit Investment Trust (UIT) |

APPENDIX II: DTC SECURITY CLASSIFICATION

This table contains the security classifications, the issue types and the sub-issue types within each security classification.

| Security Classification | If the security has Issue type of: | And has a sub-issue type of: | UPDATE FILE NAME | MASTER FILE NAME |
|--|------------------------------------|--|------------------|------------------|
| Equity | 1 | 005, 010, 011, 012, 020, 022, 023, 024, 030, 042, 102, 110, 111, 121, 125, 126, 127, 507, 700, 704, 705, 710, 720, 730, 762, 780 | EQTCUP | EQTMST |
| Funds/Trusts | 1 | 117, 130, 760, 761, 762, 781, 790, 791, 795 | CRPCUP | CRPMST |
| Corporate Fixed Income | 5 | 126, 127, 340, 500, 542, 571, 572, 573, 574, 575, 576, 577, 578, 579, 704, 781 | CRPCUP | CRPMST |
| Government Securities | 5 | 601, 602, 603, 610, 611, 612, 613, 620 | GOVCUP | GOVMST |
| Money Market Instruments | 5 | 120, 320, 330, 502, 504, 505, 506, 507, 510, 511, 520, 525, 526, 530, 531, 532, 533, 550, 560 | MMICUP | MMIMST |
| Mortgage-Backed MBS | 5 | 450, 451, 452, 650, 651, 652 | AMBCUP | AMBMST |
| Asset Backed (ABS)/Collateralized Mortgage Obligations (CMO) | 5 | 040, 041, 540, 541, 551 | AMBCUP | AMBMST |
| Municipal Securities | 7 | 310, 311, 312, 313, 314, 315, 346, 576, 706, 708 | MUNCUP | MUNMST |

APPENDIX III: ISO UNITED STATES & CANADIAN PROVINCES

| State/Province Name | State/Province Code | Country Code |
|--------------------------------|---------------------|--------------|
| ALBERTA | AB | CA |
| ALASKA | AK | US |
| ALABAMA | AL | US |
| ARKANSAS | AR | US |
| AMERICAN SAMOA | AS | US |
| ARIZONA | AZ | US |
| BRITISH COLUMBIA | BC | CA |
| CALIFORNIA | CA | US |
| COLORADO | CO | US |
| CONNECTICUT | CT | US |
| DISTRICT OF COLUMBIA | DC | US |
| DELAWARE | DE | US |
| FLORIDA | FL | US |
| FEDERATED STATES OF MICRONESIA | FM | US |
| GEORGIA | GA | US |
| GUAM | GU | US |
| HAWAII | HI | US |
| IOWA | IA | US |
| IDAHO | ID | US |
| ILLINOIS | IL | US |
| INDIANA | IN | US |
| KANSAS | KS | US |
| KENTUCKY | KY | US |

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| State/Province Name | State/Province Code | Country Code |
|--------------------------|---------------------|--------------|
| LOUISIANA | LA | US |
| LABRADOR | LB | CA |
| MASSACHUSETTS | MA | US |
| MANITOBA | MB | CA |
| MARYLAND | MD | US |
| MAINE | ME | US |
| MARSHALL ISLANDS | MH | US |
| MICHIGAN | MI | US |
| MINNESOTA | MN | US |
| MISSOURI | MO | US |
| NORTHERN MARIANA ISLANDS | MP | US |
| MISSISSIPPI | MS | US |
| MONTANA | MT | US |
| NEW BRUNSWICK | NB | CA |
| NORTH CAROLINA | NC | US |
| NORTH DAKOTA | ND | US |
| NEBRASKA | NE | US |
| NEWFOUNDLAND | NF | CA |
| NEW HAMPSHIRE | NH | US |
| NEW JERSEY | NJ | US |
| NEW MEXICO | NM | US |
| NOVA SCOTIA | NS | CA |
| NORTHWEST TERRITORIES | NT | CA |
| NEVADA | NV | US |
| NEW YORK | NY | US |
| OHIO | OH | US |

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| State/Province Name | State/Province Code | Country Code |
|----------------------|---------------------|--------------|
| OKLAHOMA | OK | US |
| ONTARIO | ON | CA |
| OREGON | OR | US |
| PENNSYLVANIA | PA | US |
| PRINCE EDWARD ISLAND | PE | CA |
| QUEBEC | PQ | CA |
| PUERTO RICO | PR | US |
| PALAU | PW | US |
| RHODE ISLAND | RI | US |
| SOUTH CAROLINA | SC | US |
| SOUTH DAKOTA | SD | US |
| SASKATCHEWAN | SK | CA |
| TENNESSEE | TN | US |
| TEXAS | TX | US |
| UTAH | UT | US |
| VIRGINIA | VA | US |
| VIRGIN ISLANDS | VI | US |
| VERMONT | VT | US |
| WASHINGTON | WA | US |
| WISCONSIN | WI | US |
| WEST VIRGINIA | WV | US |
| WYOMING | WY | US |
| YUKON TERRITORY | YT | CA |

APPENDIX IV: ISO COUNTRY CODES

| Two-Digit Country Code | Three-Digit Country Code | Description |
|------------------------|--------------------------|---------------------|
| AD | AND | ANDORRA |
| AE | ARE | U.A.E. |
| AF | AFG | AFGHANISTAN |
| AG | | ANTIGUA AND BARBUDA |
| AI | | ANGUILLA |
| AL | ALB | ALBANIA |
| AM | | ARMENIA |
| AN | ANT | NETH.ANTILLES |
| AO | AGO | ANGOLA |
| AQ | | ANTARTICA |
| AR | ARG | ARGENTINA |
| AS | ASM | AMERICAN SAMOA |
| AT | AUT | AUSTRIA |
| AU | AUS | AUSTRALIA |
| AW | N/A | ARUBA |
| AZ | | AZERBAIJAN |
| BA | | BOSNIA-HERZEGOVINA |
| BB | BRB | BARBADOS |
| BD | BGD | BANGLADESH |
| BE | BEL | BELGIUM |
| BF | | BURKINA FASO |
| BG | BGR | BULGARIA |
| BH | BHR | BAHRAIN |

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| Two-Digit Country Code | Three-Digit Country Code | Description |
|------------------------|--------------------------|--------------------------|
| BI | BDI | BURUNDI |
| BJ | BEN | BENIN |
| BM | BMU | BERMUDA |
| BN | BRN | BRUNEI DARUSSALAM |
| BO | BOL | BOLIVIA |
| BR | BRA | BRAZIL |
| BS | BHS | BAHAMAS |
| BT | BTN | BHUTAN |
| BV | | BOUVET ISLAND |
| BW | BWA | BOTSWANA |
| BY | BYS | BELARUS |
| BZ | BLZ | BELIZE |
| CA | CAN | CANADA |
| CC | CCK | COCOS (KEELING) ISLANDS |
| CF | CAF | CENTRAL AFRICAN REPUBLIC |
| CG | COG | CONGO |
| CH | CHE | SWITZERLAND |
| CI | CIV | COTE D'IVOIRE |
| CK | COK | COOK ISLANDS |
| CL | CHL | CHILE |
| CM | CMR | CAMEROON |
| CN | CHN | CHINA |
| CO | COL | COLOMBIA |
| CR | CRI | COSTA RICA |
| CS | CSK | CZECHOSLOVAKIA |

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| Two-Digit Country Code | Three-Digit Country Code | Description |
|------------------------|--------------------------|-----------------------------|
| CU | CUB | CUBA |
| CV | CPV | CAPE VERDE |
| CX | CXR | CHRISTMAS ISLAND |
| CY | CYP | CYPRUS |
| CZ | N/A | CZECH REPUBLIC |
| DE | DEU | GERMANY |
| DJ | DJI | DJIBOUTI |
| DK | DNK | DENMARK |
| DM | DMA | DOMINICA |
| DO | DOM | DOMINICAN REPUBLIC |
| DZ | DZA | ALGERIA |
| EC | ECU | ECUADOR |
| EE | | ESTONIA |
| EG | EGY | EGYPT |
| EH | ESH | WESTERN SAHARA |
| ES | ESP | SPAIN |
| ET | ETH | ETHIOPIA |
| FI | FIN | FINLAND |
| FJ | FJI | FIJI |
| FK | FLK | FALKLAND ISLANDS (MALVINAS) |
| FM | | MICRONESIA |
| FO | FRO | FAEROE ISLANDS |
| FR | FRA | FRANCE |
| GA | GAB | GABON |
| GB | GBR | UNITED KINGDOM |

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| Two-Digit Country Code | Three-Digit Country Code | Description |
|------------------------|--------------------------|----------------------------|
| GD | GRD | GRENADA |
| GE | | GEORGIA |
| GF | GUF | FRENCH GUIANA |
| GG | | GUERNSEY, C.I. |
| GH | GHA | GHANA |
| GI | GIB | GIBRALTAR |
| GL | GRL | GREENLAND |
| GM | GMB | GAMBIA |
| GN | GIN | GUINEA |
| GP | GLP | GUADELOUPE |
| GQ | GNQ | EQUATORIAL GUINEA |
| GR | GRC | GREECE |
| GT | GTM | GUATEMALA |
| GU | GUM | GUAM |
| GW | GNB | GUINEA-BISSAU |
| GY | GUY | GUYANA |
| HK | HKG | HONG KONG |
| HM | | HEARD AND MCDONALD ISLANDS |
| HN | HND | HONDURAS |
| HR | | CROATIA |
| HT | HTI | HAITI |
| HU | HUN | HUNGARY |
| HV | HVO | UPPER VOLTA |
| ID | IDN | INDONESIA |
| IE | IRL | IRELAND |

| Two-Digit Country Code | Three-Digit Country Code | Description |
|------------------------|--------------------------|-----------------------------------|
| IL | ISR | ISRAEL |
| IM | N/A | ISLE OF MAN |
| IN | IND | INDIA |
| IO | IOT | BRITISH INDIAN OCEAN TERRITORY |
| IQ | IRQ | IRAQ |
| IR | IRN | IRAN (ISLAMIC REPUBLIC OF) |
| IS | ISL | ICELAND |
| IT | ITA | ITALY |
| JE | N/A | JERSEY, C.I. |
| JM | JAM | JAMAICA |
| JO | JOR | JORDAN |
| JP | JPN | JAPAN |
| JT | JTN | JOHNSTON ISLANDS |
| KE | KEN | KENYA |
| KG | | KYRGYZSTAN |
| KH | KHM | CAMBODIA |
| KI | KIR | KIRIBATI |
| KM | COM | COMOROS |
| KN | | SAINT KITTS AND NEVIS |
| KP | PRK | KOREA, DEMOCRATIC PEOPLE'S REP.OF |
| KR | KOR | KOREA, REPUBLIC OF |
| KW | KWT | KUWAIT |
| KY | CYM | CAYMAN ISLANDS |
| KZ | | KAZAKHSTAN |
| LA | LAO | LAO PEOPLE'S DEMOCRATIC REPUBLIC |

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| Two-Digit Country Code | Three-Digit Country Code | Description |
|------------------------|--------------------------|--------------------------|
| LB | LBN | LEBANON |
| LC | LCA | SAINT LUCIA |
| LI | LIE | LIECHTENSTEIN |
| LK | LKA | SRI LANKA |
| LR | LBR | LIBERIA |
| LS | LSO | LESOTHO |
| LT | | LITHUANIA |
| LU | LUX | LUXEMBOURG |
| LV | | LATVIA |
| LY | LBY | LIBYAN ARAB JAMAHIRIYA |
| MA | MAR | MOROCCO |
| MC | MCO | MONACO |
| MD | | MOLDOVA, REPUBLIC OF |
| MG | MDG | MADAGASCAR |
| MH | | MARSHALL ISLANDS |
| ML | MLI | MALI |
| MM | | MYANMAR |
| MN | MNG | MONGOLIA |
| MO | MAC | MACAU |
| MP | | NORTHERN MARIANA ISLANDS |
| MQ | MTQ | MARTINIQUE |
| MR | MRT | MAURITANIA |
| MS | | MONTSERRAT |
| MT | MLT | MALTA |
| MU | MUS | MAURITIUS |

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| Two-Digit Country Code | Three-Digit Country Code | Description |
|------------------------|--------------------------|---------------------------------------|
| MV | MDV | MALDIVES |
| MW | MWI | MALAWI |
| MX | MEX | MEXICO |
| MY | MYS | MALAYSIA |
| MZ | MOZ | MOZAMBIQUE |
| NA | NAM | NAMIBIA |
| NC | NCL | NEW CALEDONIA |
| NE | | NIGER |
| NF | NFK | NORFOLK ISLAND |
| NG | NGA | NIGERIA |
| NI | NIC | NICARAGUA |
| NL | NLD | NETHERLANDS |
| NO | NOR | NORWAY |
| NP | NPL | NEPAL |
| NR | NRU | NAURU |
| NT | | NEUTRAL ZONE (BETWEEN SAUDI AND IRAQ) |
| NU | NIU | NIUE |
| NZ | NZL | NEW ZEALAND |
| OM | OMN | OMAN |
| PA | PAN | PANAMA |
| PE | PER | PERU |
| PF | PYF | FRENCH POLYNESIA |
| PG | PNG | PAPUA NEW GUINEA |
| PH | PHL | PHILIPPINES |
| PK | PAK | PAKISTAN |

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| Two-Digit Country Code | Three-Digit Country Code | Description |
|------------------------|--------------------------|--------------------------------|
| PL | POL | POLAND |
| PM | SPM | ST.PIERRE AND MIQUELON |
| PN | PCN | PITCAIRN ISLAND |
| PR | PRI | PUERTO RICO |
| PT | PRT | PORTUGAL |
| PW | | PALAU |
| PY | PRY | PARAGUAY |
| PZ | | PANAMA CANAL ZONE |
| QA | QAT | QATAR |
| RE | REU | REUNION |
| RO | ROM | ROMANIA |
| RU | N/A | RUSSIA |
| RW | RWA | RWANDA |
| SA | SAU | SAUDI ARABIA |
| SB | SLB | SOLOMON ISLANDS |
| SC | SYC | SEYCHELLES |
| SD | SDN | SUDAN |
| SE | SWE | SWEDEN |
| SG | SGP | SINGAPORE |
| SH | SHN | ST.HELENA |
| SI | | SLOVENIA |
| SJ | SJM | SVALBARD AND JAN MAYEN ISLANDS |
| SK | | SLOVAKIA |
| SL | SLE | SIERRA LEONE |
| SM | SMR | SAN MARINO |

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| Two-Digit Country Code | Three-Digit Country Code | Description |
|------------------------|--------------------------|-------------------------------------|
| SN | SEN | SENEGAL |
| SO | SOM | SOMALIA |
| SR | SUR | SURINAME |
| ST | STP | SAO TOME AND PRINCIPE |
| SU | SUN | UNION OF SOVIET SOCIALIST REPUBLICS |
| SV | SLV | EL SALVADOR |
| SY | SYR | SYRIAN ARAB REPUBLIC |
| SZ | SWZ | SWAZILAND |
| TC | TCA | TURKS AND CAICOS ISLANDS |
| TD | TCD | CHAD |
| TF | | FRENCH SOUTHERN TERRITORIES |
| TG | TGO | TOGO |
| TH | THA | THAILAND |
| TJ | | TAJIKISTAN |
| TK | TKL | TOKELAU |
| TM | | TURKMENISTAN |
| TN | TNN | TUNISIA |
| TO | TON | TONGA |
| TP | TMP | EAST TIMOR |
| TR | TUR | TURKEY |
| TT | TTO | TRINIDAD AND TOBAGO |
| TV | TUV | TUVALU |
| TW | N/A | TAIWAN |
| TZ | TZA | TANZANIA, UNITED REPUBLIC OF |
| UA | UKR | UKRAINE |

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| Two-Digit Country Code | Three-Digit Country Code | Description |
|------------------------|--------------------------|--------------------------------------|
| UG | UGA | UGANDA |
| UM | | UNITED STATES MINOR OUTLYING ISLANDS |
| US | USA | UNITED STATES |
| UY | URY | URUGUAY |
| UZ | | UZBEKISTAN |
| VA | VAT | VATICAN CITY STATE |
| VC | VCT | SAINT VINCENT AND THE GRENADINES |
| VE | VEN | VENEZUELA |
| VG | VGB | VIRGIN ISLANDS (BRITISH) |
| VI | VIR | VIRGIN ISLANDS, U.S. |
| VN | VNM | VIET NAM |
| VU | VUT | VANUATU |
| WF | WLF | WALLIS AND FUTUNA ISLANDS |
| WS | WSM | SAMOA |
| YE | YEM | YEMEN, REPUBLIC OF |
| YU | YUG | YUGOSLAVIA |
| ZA | ZAF | SOUTH AFRICA |
| ZM | ZMB | ZAMBIA |
| ZR | ZAR | ZAIRE |
| ZW | ZWE | ZIMBABWE |
| XS | N/A | CEDEL EUROCLEAR |

APPENDIX V: ISO CURRENCY CODES

| Code | Description |
|------|-------------------------------|
| ADP | ANDORRAN PESETA |
| AED | UAE DIRHAM |
| AFA | AFGHANI |
| ALL | LEK |
| ANG | NETHERLANDS ANTILLEAN GUILDER |
| AON | NEW KWANZA |
| ARS | ARGENTINE PESO |
| ATS | SHILLING |
| AUD | AUSTRALIAN DOLLAR |
| AWG | ARUBAN GUILDER |
| BBD | BARBADOS DOLLAR |
| BDT | TAKA |
| BEF | BELGIAN FRANC |
| BGL | LEV |
| BHD | BAHRAINI DINAR |
| BIF | BURUNDI FRANC |
| BMD | BERMUDIAN DOLLAR |
| BND | BRUNEI DOLLAR |
| BOB | BOLIVIANO |
| BRL | BRAZILIAN REAL |
| BSD | BAHAMIAN DOLLAR |
| BTN | NGULTRUM |
| BWP | PULA |
| BYB | BELARUSSIAN RUBLE |

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| Code | Description |
|------|------------------------|
| BZD | BELIZE DOLLAR |
| CAD | CANADIAN DOLLAR |
| CHF | SWISS FRANC |
| CLF | UNIDADES DE FORMENTO |
| CLP | CHILEAN PESO |
| CNY | YUAN RENMINBI |
| COP | COLOMBIAN PESO |
| CRC | COSTA RICAN COLON |
| CUP | CUBAN PESO |
| CVE | CAPE VERDE ESCUDO |
| CYP | CYPRUS POUND |
| CZK | CZECH KORUNA |
| DEM | DEUTSCHE MARK |
| DJF | DJIBOUTI FRANC |
| DKK | DANISH KRONE |
| DOP | DOMINICAN PESO |
| DZD | ALGERIAN DINAR |
| ECS | SUCRE |
| EEK | KROON |
| EGP | EGYPTIAN POUND |
| ESP | SPANISH PESETA |
| ETB | ETHIOPIAN BIRR |
| EUR | EURO DOLLAR |
| FIM | MARKKA |
| FJD | FIJI DOLLAR |
| FKP | FALKLAND ISLANDS POUND |

| Code | Description |
|------|--------------------|
| FRF | FRENCH FRANC |
| GBP | POUND STERLING |
| GEK | GEORGIAN COUPON |
| GHC | CEDI |
| GIP | GIBRALTAR POUND |
| GMD | DALASI |
| GNF | GUINEA FRANC |
| GRD | DRACHMA |
| GTQ | QUETZAL |
| GWP | GUINEA-BISSAU PESO |
| GYD | GUYANA DOLLAR |
| HKD | HONG KONG DOLLAR |
| HNL | LEMPIRA |
| HRD | CROATIAN DINAR |
| HRK | KUNA |
| HTG | GOURDE |
| HUF | FORINT |
| IDR | RUPIAH |
| IEP | IRISH POUND |
| ILS | SHEKEL |
| INR | INDIAN RUPEE |
| IQD | IRAQI DINAR |
| IRR | IRANIAN RIAL |
| ISK | ICELAND KRONA |
| ITL | ITALIAN LIRA |
| JMD | JAMAICAN DOLLAR |

| Code | Description |
|------|-----------------------|
| JOD | JORDANIAN DINAR |
| JPY | YEN |
| KES | KENYAN SHILLING |
| KGS | SOM |
| KHR | RIEL |
| KMF | COMORO FRANC |
| KPW | NORTH KOREAN WON |
| KRW | WON |
| KWD | KUWAITI DINAR |
| KYD | CAYMAN ISLANDS DOLLAR |
| KZT | TENGE |
| LAK | KIP |
| LBP | LEBANESE POUND |
| LKR | SRI LANKA RUPEE |
| LRD | LIBERIAN DOLLAR |
| LSL | LOTI |
| LTL | LITHUANIAN LITAS |
| LTT | TALONAS |
| LUF | LUXEMBOURG FRANC |
| LVL | LATVIAN LATS |
| LVR | LATVIAN RUBLE |
| LYD | LIBYAN DINAR |
| MAD | MOROCCAN DIRHAM |
| MDL | MOLDOVAN LEU |
| MGF | MALAGASY FRANC |
| MKD | DENAR |

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| Code | Description |
|------|---------------------|
| MMK | KYAT |
| MNT | TUGRIK |
| MOP | PATACA |
| MRO | OUGUIYA |
| MTL | MALTESE LIRA |
| MUR | MAURITIUS RUPEE |
| MVR | RUFYAA |
| MWK | KWACHA |
| MXN | MEXICAN NUEVO PESO |
| MYR | MALAYSIAN RINGGIT |
| MZM | METICAL |
| NAD | NAMIBIA DOLLAR |
| NGN | NAIRA |
| NIO | CORDOBA ORO |
| NLG | NETHERLANDS GUILDER |
| NOK | NORWEGIAN KRONE |
| NPR | NEPALESE RUPEE |
| NZD | NEW ZEALAND DOLLAR |
| OMR | RIAL OMANI |
| PAB | BALBOA |
| PEN | NUEVO SOL |
| PGK | KINA |
| PHP | PHILIPPINE PESO |
| PKR | PAKISTAN RUPEE |
| PLN | POLISH ZLOTKY |
| PLZ | ZLOTY |

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| Code | Description |
|------|------------------------|
| PTE | PORTUGUESE ESCUDO |
| PYG | GUARANI |
| QAR | QATARI RIAL |
| ROL | LEU |
| RUR | RUSSIAN RUBLE |
| RWF | RWANDA FRANC |
| SAR | SAUDI RIYAL |
| SBD | SOLOMON ISLANDS DOLLAR |
| SCR | SEYCHELLES RUPEE |
| SDD | SUDANESE DINAR |
| SEK | SWEDISH KRONA |
| SGD | SINGAPORE DOLLAR |
| SHP | ST.HELENA POUND |
| SIT | TOLAR |
| SKK | SLOVAK KORUNA |
| SLL | LEONE |
| SOS | SOMALI SHILLING |
| SRG | SURINAM GUILDER |
| STD | DOBRA |
| SVC | EL SALVADOR COLON |
| SYP | SYRIAN POUND |
| SZL | LILANGENI |
| THB | BAHT |
| TMM | MANAT |
| TND | TUNISIAN DINAR |
| TOP | PA'ANGA |

| Code | Description |
|------|---------------------------------|
| TPE | TIMOR ESCUDO |
| TRL | TURKISH LIRA |
| TTD | TRINIDAD AND TOBAGO DOLLAR |
| TWD | NEW TAIWAN DOLLAR |
| TZS | TANZANIAN SHILLING |
| UAK | KARBOVANET |
| UGX | UGANDA SHILLING |
| USD | US DOLLAR |
| USN | US DOLLAR, NEXT DAY FUNDS |
| UYU | PESO URUGUAYO |
| UZS | UZBEKISTAN SUM |
| VEB | BOLIVAR |
| VND | DONG |
| VUV | VATU |
| WST | TALA |
| XAF | CFA FRANC BEAC |
| XAG | SILVER |
| XAU | GOLD |
| XBA | EUROPEAN COMPOSITE UNIT (EURCO) |
| XBB | EUROPEAN MONETARY UNIT (EMU-6) |
| XBC | EUROPEAN UNIT OF ACCOUNT-9 (EU) |
| XBD | EUROPEAN UNIT OF ACCOUNT-17 (E) |
| XCD | EAST CARIBBEAN DOLLAR |
| XDR | SDR INT'L MONETARY FUND (I.M.F) |
| XEU | EUROPEAN CURRENCY UNIT (ECU) |
| XFO | GOLD-FRANC (SPECIAL SETTLEMENT) |

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| Code | Description |
|------|---------------------------------|
| XFU | UIC-FRANC (SPECIAL SETTLEMENT) |
| XOF | CFA FRANC BCEAO |
| XPD | PALLADIUM |
| XPF | CFP FRANC |
| XPT | PLATINUM |
| XXX | TRANSACTIONS WITHOUT CURRENCY |
| YER | YEMENI RIAL |
| YUN | YUGOSLAVIAN DINAR |
| ZAL | FINANCIAL RAND |
| ZAR | RAND |
| ZMK | KWACHA |
| ZRN | NEW ZAIRE |
| ZWD | ZIMBABWE DOLLAR |

APPENDIX VI: MBS PRODUCT ID VALUES

Product ID values are in SIM.TBSIM45_PRODUCT

| | | |
|----|-------|-----------------------------|
| AR | FHLMC | FHLMC REMIC AR |
| CR | FHLMC | CRIIMI MAE |
| DR | FHLMC | FHLMC GIANT |
| D2 | FHLMC | FHLMC II GIANT |
| FG | FHLMC | FHLMC GOLD PC |
| FM | FHLMC | FHLMC PC |
| FN | FNMA | FEDERAL NATL MORTGAGE ASSN |
| GR | GNMA | GNMA REMIC |
| G1 | GNMA | GNMAI |
| G2 | GNMA | GNMAII |
| HR | FHLMC | FHLMC REMIC |
| K2 | FNMA | FNMA II REMIC |
| L2 | FHLMC | FHLMC GII REMIC |
| M2 | GNMA | GN II REMIC/FNMA REMIC COLL |
| NR | FNMA | FNMA I REMIC |
| P1 | GNMA | GNMA I PLATINUM |
| P2 | GNMA | GNMA II PLATINUM |
| QR | GNMA | GNMA RE REMIC 18TH PAYOR |
| RM | GNMA | GNMA RE REMIC 25TH PAYOR |
| RR | GNMA | GNMA I RE REMIC |
| R2 | GNMA | GNMA II REMIC |
| SR | GMRM1 | GINNIE MAE MORTGAGE REMIC |
| UR | GNMA | GNMA RE REMIC 25TH PAYOR |
| VR | VA | VA REMIC |

26.01 - Descriptive Update and Master Files / International Messages / Agent Update and Master Messages

| | | |
|----|------|-----------------------|
| RT | GNMA | GNMA REMIC 27TH PAYOR |
|----|------|-----------------------|

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