U.S. Guide for Cash Visibility Standards

R2.0 - << MONDAY, JUNE 15, 2020>>



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ABOUT GS1

GS1® is a neutral, not-for-profit, global organization that develops and maintains the most widely-used supply chain standards system in the world. GS1 Standards improve the efficiency, safety, and visibility of supply chains across multiple sectors. With local Member Organizations in over 110 countries, GS1 engages with communities of trading partners, industry organizations, governments, and technology providers to understand and respond to their business needs through the adoption and implementation of global standards. GS1 is driven by over a million user companies, which execute more than six billion transactions daily in 150 countries using GS1 Standards.

ABOUT GS1 US

GS1 US, a member of GS1 global, is a not-for-profit information standards organization that facilitates industry collaboration to improve supply chain visibility and efficiency through the use of GS1 Standards, the most widely used supply chain standards system in the world. Nearly 300,000 businesses in 25 industries rely on GS1 US for trading-partner collaboration that optimizes their supply chains, drives cost performance and revenue growth while also enabling regulatory compliance. They achieve these benefits through solutions based on GS1 global unique numbering and identification systems, barcodes, Electronic Product Code-based RFID, data synchronization, and electronic information exchange. GS1 US also manages the United Nations Standard Products and Services Code® (UNSPSC®).



1 INTRODUCTION

In 2013, the Federal Reserve System's Cash Product Office (CPO), top 15 US cash handling financial institutions (FIs) and top 5 US armored carriers (ACs) from the Customer Advisory Council (CAC) collaborated on a business case to determine if a standardized framework for electronically sharing data about cash packages transferred among parties in the cash supply chain should be pursued. In December 2014, this group determined the GS1 System of Standards met the needs of the industry and GS1 US had the expertise necessary to engage additional stakeholders in development, implementation and adoption of these standards. A Cash Visibility Working Group was formed to move this effort forward.

Leveraging standards developed by GS1 Germany and work done by the CAC teams to date, the working group evolved into a new CAC Cash Visibility Subcommittee to determine and finalize standards for identification of cash packages in the US. In addition, they determined the minimum data requirements for electronic messages using a standard message format to ensure consistency across the supply chain. The Cash Visibility Subcommittee Implementation Guide Refresh (IGR) workgroup was charged in mid to late 2019 with reviewing and reconfirming the data standards. After this document was finalized, industry participants will continue to test and pilot Cash Visibility. As the industry continues to implement the adoption of the Cash Visibility Standards, the CAC Cash Visibility Subcommittee will act as the owner of the standards and be responsible of managing the change control process of future updates needed to the standards.

SITUATION ANALYSIS:

Federal Reserve Banks (FRBs), FIs and ACs rely on paper documents for chain of custody on cash deposits and orders. Cash bags and packages are printed with proprietary information. Additionally, FRBs, FIs and ACs use proprietary closed systems to identify customers and cash packages.

PROBLEM STATEMENT:

To gain efficiencies in processing, there is a need for a common way to identify locations, cash packages and US currency denominations in the cash supply chain. In addition, these identifiers should be part of a standardized set of data elements that accompany orders and deposits throughout the cash supply chain. These standardized data elements should be communicated through an electronic messaging standard that helps drive elimination of paper-based chain of custody documents and improve accuracy and traceability in the cash supply chain.

1.1 OBJECTIVE

To reduce cash handling costs and risks, and improve controls and service levels, the CAC agreed to pursue development of a framework for electronically sharing data about cash packages that are transferred between and among organizations involved in the cash supply chain, including FRBs, FIs, ACs, and retailers.

As part of the framework, the former Cash Visibility Working Group's Supply Chain Data Standards subgroup comprised of the FRB, FIs, ACs, and GS1 was tasked to determine the standard data elements to be used throughout the supply chain. The Supply Chain Data Standards subgroup performed the following tasks:

- Reviewed Bundesbank model and assessed applicability to US cash supply chain (March 2015)
- Reviewed the current and future state workflows
- Provided the descriptions of the workflows and steps
- Made decisions that were approved by an oversight "Coordinating Team" regarding changes to the workflows



- Identified and agreed upon the data elements that would be used within each "what to expect" file
- GS1 created a standard data element format that was approved by the Coordinating Team

1.2 SCOPE

Defines which GS1 identifiers and barcodes will be implemented for:

- Locations
- Cash bags and packages
- US currency denominations

Creates a framework of standardized data elements to accompany currency transfers across the cash supply chain, as well as a standard for electronic transmission of these data elements in an open, interoperable system.

1.3 HOW TO USE THIS DOCUMENT

- Step 1: Review Section 2 for the Key GS1 Cash Visibility Standards.
- Step 2: Review the Data Standards for Deposit and Order Processes in Section 4.
- Step 3: Use this document when working with industry partners and solution providers to ensure data exchange solutions use these standards.

Note that the U.S. Implementation Guide for Cash Visibility supply chain data standards incorporates the following GS1 identification keys, which have been identified for use at some future time:

- The Global Trade Item Number (GTIN), which accommodates identification of cash and coin denominations.
- The Global Returnable Asset Identifier (GRAI), which accommodates identification of returnable asset containers.

Additional topics that will be discussed by the CAC Cash Visibility Subcommittee after approval of the Standards include:

- Bar codes, bar code placement, and information on cash container labels for deposit and order processes
- Development of standardized file structures, such as XML, for use among cash supply chain members, for the 'what to expect' files.



1.4 DOCUMENT SUMMARY

DOCUMENTITEM	CURRENT VALUE
DOCUMENT TITLE	U.S. Implementation Guide for Cash Visibility
DATE LAST MODIFIED	Monday, June 15, 2020
CURRENT DOCUMENT RELEASE	R2.0
STATUS	Final
DOCUMENT DESCRIPTION	U.S. Implementation Guide for Cash Visibility

Table A Document Summary

1.5 LOG OF CHANGES IN R1.0

RELEASE NO.	DATE OF CHANGE	CHANGEDBY	SUMMARY OF CHANGE
R1.0	10/1/2015	Cash Visibility Discussion Group	Initial Draft of Standard



R2.0	1/28/2020 1/28/2020	CAC Cash Visibility Subcommittee – Implementation Guide Workgroup	Revisions to include updated standards including: Removal of Federal Reserve Bank detailed workflows since the guide is focused on supply chain standards and workflows will need to be developed by supply chain partners Updated Section 1.6 Contributors to reflect the vast number of additional industry partners that helped review and refresh this guide Updated SSCC reuse timeframe from 84 to 12 months based on the groups determination that 12 months was sufficient from a research perspective Updated Order and Deposit data elements based on mapping exercises Exception handling codes (Table 3.3) Added notification date/time to WTE file. Added denomination breakouts to include \$500, \$1000, \$5000 and \$10000. Added 'DEPREQ' and 'DEPCNF' as value types. DEPREQ is used to request a vault to prepare a deposit and DEPCNF is the confirmation that the request has been received Added Section 4 Governance/Change Control to describe the future governance/change control of this document. Robert you need to log your changes per your most recent pilots Changed field lengths in data exchange files to include application identifiers to match Section 6.1: Appendix A: GS1 Application Identifiers. SSCC: N (20) = AI (00) + SSCC (18) GIAI: N(4) + X30 = AI(8004) + variable length serial number (130) Note: The GS1 identifiers, GTIN, GSIN and GRAI are not in the data exchange files. GLN remained at a field length of 13 because it is being used to reflect ship from/ship to party ID, armoured transportation, depositor, sender/shipper of
	2/18/2020		transportation, depositor, sender/shipper of message and order entity and not barcoded. Updated the Deposit Process Data Elements to include an additional Document Type — Deposit Request — Request for vault to prepare a deposit that will then be delivered using the DEPREQ value type



Table B

Log of Changes

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Table C Contributors



GS1 US acknowledges the significant contributions of the organization known as the Group Cash Visibility Discussion Group (or CashVis), CAC Cash Visibility Subcommittee, and industry stakeholders listed herein in the development of this document.



2 KEY GS1 CASH VISIBILITY STANDARDS

2.1 GS1 COMPANY PREFIX

The first step in assigning a GS1 Identification Key is to obtain a GS1 Company Prefix from a GS1 Member Organization, such as GS1 US. The GS1 Company Prefix provides a way for companies to create identification keys for cash visibility, which are unique all around the world.

GS1 Company Prefixes vary in length between seven and eleven digits. Different length prefixes provide different amounts of numbering options for all GS1 Primary Identifiers.

Ensuring uniqueness of the GS1 Company Prefix is dependent on how it is structured. Because of this structure, there is no possibility of an identifier (GLN, SSCC, etc.) being duplicated by two different entities. GS1 US always educates using the identifier in its entirety and to never parse.



2.2 GLOBAL LOCATION NUMBER (GLN)

What is a Global Location Number?

The Global Location Number (GLN) is used to identify physical and functional *locations* as well as *legal entities*. GLNs are used to identify parties to business transactions; functional groups within a company; or real, physical "places" that might ship, receive, process, or hold inventories.

13-DIGIT NUMERICAL NUMBER



For <u>Cash Visibility</u>, examples of where a GLN would be assigned include a bank location, an ATM location, a vault location, a merchant location, and a carrier location. Each business partner would assign their own unique GLNs based on the locations in the cash supply chain.













2.3 SERIAL SHIPPING CONTAINER CODE (SSCC)

What is a Serial Shipping Container Code?

The Serial Shipping Container Code (SSCC) is the GS1 Identification Key used to identify a *logistic unit*. A logistic unit can be any combination of units put together in a case or on a pallet or truck where the specific unit load needs to be managed throughout the supply chain.

18-DIGIT NUMERICAL NUMBER



For <u>Cash Visibility</u>, an SSCC code would be applied to a cash bag, which would track the bag from its origination to destination location.





2.4 GLOBAL SHIPMENT IDENTIFICATION NUMBER (GSIN)

What is a Global Shipment Identification Number?

The Global Shipment Identification Number (GSIN) is the GS1 Identification Key used to identify a logical *grouping* of logistic units for the purpose of a *transport shipment* from the seller to the buyer. It identifies the logical grouping of one or several logistic units each identified with a separate SSCC and containing trade items as being part of a specific seller / buyer relationship and that travels under one dispatch advice and/or Bill of Lading.

17 DIGITS LONG



For <u>Cash Visibility</u>, the GSIN would identify a group of SSCC barcoded cash bags that are traveling together.





2.5 GLOBAL INDIVIDUAL ASSET IDENTIFIER (GIAI)

What is a Global Individual Asset Identifier?

A Global Individual Asset Identifier (GIAI) is the GS1 Identification Key used to identify an *individual asset*. The GIAI is one of the two GS1® keys used for *asset identification*. It is used to identify *fixed assets* within an enterprise. The GIAI enables assets to be individually recorded as part of a fixed asset inventory control system, i.e., any individual asset of any *value* within a company that needs to be identified uniquely.

VARIABLE LENGTH

Application Identifier	GS1 Company Prefix $ ightarrow $	Individual Asset Reference
8004	$N_1 - N_i$	X_i †1 Variable Length X_{30}

For **Cash Visibility**, a GIAI would identify the Seal Number on a container.







2.6 GLOBAL RETURNABLE ASSET IDENTIFIER (GRAI)

What Is a Global Returnable Asset Identifier?

A Global Returnable Asset Identifier (GRAI) is the GS1 Identification Key used to identify a returnable asset. This unique identifier is comprised of a GS1 Company Prefix, an Asset Type, a Check Digit, and an optional serial number.

GRAI is used to identify returnable assets, re-usable packages, or transport equipment, such as a tray, pallet, or beer keg. The GRAI enables returnable assets to be identified by type or individually for tracking or inventory purposes. In simple terms, this means an asset that will be sent outside the company that contains, protects, or transports physical items and will be used for multiple trips.

The GRAI identifies the asset being used for the purpose of tracking its location and return. It can be used for tracking only or as part of a lease or rental system in which companies collaborate on the use of these assets.

14 DIGITS LONG + OPTIONAL SERIAL NUMBER



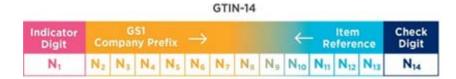
For <u>Cash Visibility</u>, a GRAI would be used to identify cash containers. Use of the GRAI has been discussed for a future phase of the Cash Visibility project.



2.7 GLOBAL TRADE ITEM NUMBER (GTIN)

What is a Global Trade Item Number?

One of the main building blocks of the GS1 US System, a Global Trade Item Number® (or GTIN®) is a number that uniquely identifies *trade items* (any product or service that may be *priced*, *ordered*, or *invoiced* at any point in the supply chain) as they move through the global supply chain to the ultimate end user.



For <u>Cash Visibility</u>, a GTIN could identify unique cash items, such as a strap of \$100 bills. Use of the GTIN has been discussed for a future phase of the Cash Visibility project.





2.8 APPLICATION IDENTIFIERS FOR BARCODE USE

GS1 Application Identifiers are a set of specialized identifiers encoded within barcodes to indicate the type, length, and format of data. They are a two, three, or four-digit numeric code that tells the system applications "what to expect next". They provide the ability to string together multiple fields of information to help solve a variety of business challenges.

For <u>Cash Visibility</u>, the Application Identifiers are used to indicate the following GS1 Keys:

- Global Location Number (GLN) AI (414)
- Serial Shipping Container Code (SSCC) Al (00)
- Global Shipment Identification Number (GSIN) AI (402)
- Global Individual Asset Identifier (GIAI) AI (8004)
- Global Returnable Asset Identifier (GRAI) AI (8003)
- Global Trade Item Number (GTIN) AI (01)

2.9 GS1 BARCODES

There are two specific barcodes or data carriers that can be used today in the cash industry to support the barcoding of bags. The level of information encoded into the barcodes differs depending on the barcode symbology used. For purposes of this document, the cash supply chain may utilize the following barcodes: GS1-128 or GS1 DataMatrix.

2.9.1 THE GS1-128 BARCODE

GS1-128 is a one-dimensional (1D) barcode that holds large amounts of data (up to 48 characters), supporting all of the GS1 Identification Keys. Additionally, the GS1-128 barcode supports attribute data that can be combined with the GS1 Key, such as a Serial Number.



2.9.2 THE GS1 DATAMATRIX BARCODE

GS1 DataMatrix is a two-dimensional (2D) barcode that holds large amounts of data in a relatively small space. This barcode is readable in a 360-degree orientation. The GS1 DataMatrix barcodes also have a sophisticated error correction algorithm, which compensates for lost or missing data, extraneous marks, or code damage. This means that print quality and contrast are much less critical than with traditional linear or stacked barcodes. With error correction, GS1 DataMatrix barcodes can reconstruct up to 20% of damaged characters.





2.9.3 CASH VISIBILITY BARCODE USE

The table below highlights the *current* GS1 Barcode use within the Cash Visibility process of the SSCC and GSIN Identifiers:



Table D GS1 Barcodes & Identifiers Table for Current Use

The table below highlights the **possible** GS1 Barcode use within the Cash Visibility process of the GLN, GIAI, GRAI and GTIN Identifiers:

PHYSICAL LOCATIONS SUCH AS A BANK, AN ATM, A VAULT, A MERCHANT, OR A CARRIER	GLN (Global Location Number) GS1-128 with AI (414)	(414) 0614141 00852 0	(414) 0614141 00852 0
ASSET/SEAL	GIAI (Global Individual Asset Identifier) GS1-128 with AI (8004)	(8004) 0614141SEAL12345	(8004) 0614141\$EAL12345
CASH CONTAINER	GRAI (Global Returnable Asset Identifier) GS1-128 with AI (8003)	(8003) 00614141001125sn123	(8003) 00614141001125SN123
TRADE ITEM "CASH STRAP"	GTIN (Global Trade Item Number) GS1-128 with AI (01)	(01) 0 0614141 00734 9	(01) 0 0614141 00734 9

Table E GS1 Barcodes & Identifiers Table for Possible Use



2.9.4 CASH VISIBILITY BARCODE PLACEMENT

2.9.4.1 ON LOGISTIC UNITS (CASH BAGS)

Although this category is referred to as "bags," these packages/containers are also called sacks or pouches. This category includes paper or plastic containers that are:

- Fold-sealed on both ends.
- Fold-sealed on one end and pinched sealed at the other end.
- Pinch-sealed at both ends.
- Fold-sealed on one end and gathered at the other end.

Bags have a tendency to have contents that shift and bulge. Consequently, barcode placement must be on an area of the bag that is most likely to remain flat.

Identify the front of the package/container and the preferred placement is on the lower right quadrant of the back and away from the edge, respecting the proper white space areas around the barcode.

When possible, the barcode must not be closer than 0.3 in. or farther than 4 inches from the nearest edge of the bag. Previous guidelines suggested a distance of 0.2 inch as a minimum. Practical experience has shown this to be inadequate.

2.9.4.2 ON LOGISTIC UNITS (CASH CONTAINERS)

The barcodes on containers shall be upright (i.e. in picket fence orientation) and placed on the sides of the container. Each container shall have at least one barcode, and two are recommended.

For larger containers (greater than 16 in. high), the target height for the bottom of the barcode is between 16 in. and 32 in. from the base of the container.

For containers less than 16 inches high, the barcode shall be placed as high as possible while protecting the barcode. The barcodes shall be kept away from any vertical edges (≥ 0.75 in.) and away from the base of the container (≥ 1.25 in.) so that the barcodes are less likely to be accidentally damaged in transit.

2.9.5 CASH VISIBILITY BARCODE PRINT QUALITY

GS1 Standards mandate an overall print quality grade of 1.5 (Alphabetic Grade C) or better. These grades are provided by a "barcode print quality verifier." There are commercially available print quality verifiers that report against the ISO Print Quality and GS1 System of Standards.

It is strongly recommended that an internal barcode print quality verification schedule be developed, and that verification data be tracked and recorded for future reference in case of a customer inquiry.

For more information on Barcode Verification, please see the GS1 US website here: https://www.gs1us.org/ or the GS1 General Specifications



2.10 GENERAL ALLOCATION RULES FOR GS1 IDENTIFIERS

GS1 publishes general guidance on GLN, SSCC, GSIN, GRAI,, GIAI, AND GTIN allocation.

GLN Allocation General Rule

Global Location Numbers (GLNs) can be used to identify any physical location or party that has meaning within a business scenario. The general rule is that a separate GLN is required to identify each different location (e.g., each store of a retail group, a bank branch, or a vault location is required to have a separate GLN to enable efficient delivery). The exact method used to allocate the GLN is at the discretion of the issuing organization. When a new GLN is issued, it is recommended that:

- the GLN be associated with the master data for the identified location.
- this master data be communicated to business partners in a timely manner
- GLNs be allocated sequentially without classifying elements

Once assigned, the GLN becomes a global reference that can be used by all.

The GLN allocated to an entity should be communicated from the owner of the location to the business partner, so that all systems can be prepared for interaction. GLNs are reference keys for retrieving the indicated information from databases. From time to time, the details (associated data) related to a GLN might change.

A Global Location Number (GLN) that has been previously used or has become obsolete must **not be reused** for another location.

SSCC Allocation General Rule

The Serial Shipping Container Code (SSCC) provides functionality to support the management (tracking, tracing, storage, etc.) of logistic units through the supply chain. An individual SSCC is a unique number, which remains the same for the *life of the logistic unit* to which it is assigned (e.g., cash bag). When assigning an SSCC, the rule is that an individual SSCC number must not be reallocated within *12 months* of the shipment date from the SSCC assignor to a business partner. However, prevailing regulatory or industry organization specific requirements may extend this period.

GSIN Allocation General Rule

An individual Global Shipment Identification Number (GSIN) is a unique number, which remains the same for the *life of the grouping of logistics or transport units* to which it is assigned. When assigning a GSIN, the rule is that an individual GSIN number must not be reallocated within *24 months* of the shipment date from the sender of the GSIN to a recipient.

GRAI Allocation General Rule

Rules and guidelines pertaining to the use of the Global Returnable Asset Identifier in Cash Visibility will be discussed at time of implementation.



GIAI Allocation General Rule

The Global Individual Asset Identifier (GIAI) or (seal number) must remain unique for a period well beyond the lifetime of the relevant records. If a business partner assigns seal number to containers supplied to its customers, the company must ensure that the seal number must not be reallocated within **24 months** of the seal becoming obsolete.

The exact method used to allocate the GIAI is left to the discretion of the issuing organization. However, each GIAI (seal number) must be unique. For ease of administration, the GS1 System recommends that GIAIs be allocated sequentially and not contain classifying elements.

GTIN Allocation General Rule

A Global Trade Item Number (GTIN) is used to identify any item (cash, cash-strap, or coin) upon which there is a need to retrieve pre-defined information. A separate, unique GTIN is required whenever any of the pre-defined characteristics of an item are different in any way that is relevant to the trading process. As a guiding principle, if the business partner is expected to distinguish a new cash item from an old cash item and order/deposit accordingly, a new GTIN should be assigned to the new cash item.

A GTIN allocated to a cash item that has become obsolete must **not be re-used** for another cash item.



3 THE CASH SUPPLY CHAIN

The figure below shows an overview of the cash supply chain and the key roles played by various supply chain parties.

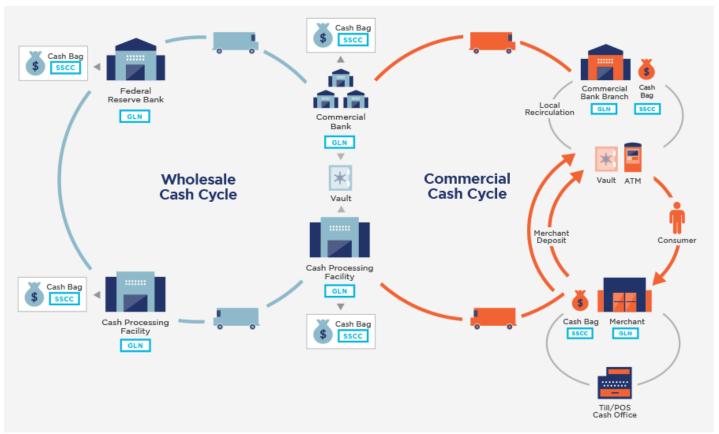


Figure 1 Cash Supply Chain



3.1 ROLES IN THE SUPPLY CHAIN

The table below provides a list of the primary and support roles found in the cash supply chain and, if covered, where traceability guidance is provided in this document for each role.

	ROLE	ACTIVITIES	ALIAS/EXAMPLES
	MERCHANT		
nar Ies	FINANCIAL INSTITUTION (FI)		
rin Ro	FEDERAL RESERVE		
4	ARMORED CARRIER		

Table F

Table of Roles

3.2 BAG AND SHIPMENT METHODOLOGIES

PACKAGETYPES	DEFINITION
BG	BAG
вх	BOX
CA	CASSETTE
СО	CONTAINER
EN	ENVELOPE
HBG	½ BAG
нвх	½ BOX

Table G Ca

Cash Package Types

3.3 RETURN/EXCHANGE METHODOLOGIES

RETURN CODE TYPES	DEFINITION	
MODIFICATION CORRECTION CODES (MCC) – PACKAGE RECEIVED AND ACCEPTED; NOTED IN E-RECEIPT		
M1	EXTRA PACKAGE: package received not included in WTE file	
M2	PACKAGE PRESENTMENT: Double bagged, compromised seal, unsealed, hole/tear in bag/package	
мзн	SSCC ERROR: SSCC number missing or unreadable	
RETURN EXCEPTION CODES (REC) – PACKAGE RECEIVED AND RETURNED TO SENDER; NOTED IN E-RECEIPT		
R1	INCORRECT RECEIPT: Package delivered to incorrect receiver (include in a return WTE or paper manifest)	
R2	MISSING PACKAGE: Package on WTE file not received; missing	



RETURN CODE TYPES	DEFINITION
MODIFICATION CORRECTION CODES (MCC) – PACKAGE RECEIVED AND ACCEPTED; NOTED IN E-RECEIPT	
R3	PACKAGE PRESENTMENT: Double bagged, compromised seal, unsealed, hole or tear in bag, contaminated not pre-notified, other
R4	SSCC ERROR: SSCC number missing or unreadable
R5	FILE REJECTED: Invalid format, duplicate file, received past cutoff, missing mandatory information (e.g. SSCC, GLN, Deposit Total)

Table H Cash Exception Code Types for Accepted or Returned



3.4 SUPPLY CHAIN DATA STANDARDS MESSAGING FIELDS

3.4.1 ORDER PROCESS

Supply Chain Data Standards Workgroup Order Process Data Elements

1			ne lo.		Order	Comments	Value Type	DI AC Use	FRB Use			
	He	ader I	nforr	natio	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX							
			0		Document Type	Unique Document Type - Order Notification	'ORDER'	Yes	Yes			
r file	1		1 Manifest ID/Document ID Unique transaction/document ID; value may not repeat		X(20)	Yes	Yes					
Custome Expect"		2			Sender of the Message	Identifier of the sender of the ORDER message; may or may not be the same party as the Shipper	GLN N (13)	Yes	Yes			
Initial ("What to		3			Receiver of the Message	Receiver of the ORDER message; may or may not be the same party as the Receiver	GLN N(13)	Yes	Yes			
		4			Notification Date	Date when ORDER what to expect' file was created	CCYYMMDD:	Yes	Yes			
		5			Notification Time	Time when ORDER what to expect' file was created	ннмм	Yes	Yes			



6			Ship-From PartyID	The GLN of the Party/physical location from where the currency is being shipped. Required when the Shipper ID/location is not the same as the Ship-From Party ID.	GLN N (13)	Yes	Yes
7			Ship-To Party ID	The GLN of the Party/physical location which will receive the funds if the Receiving party is different from Receiver ID	GLN N(13)	Yes	Yes
8			Number of Containers/Units	Number of physical packages/cassettes/bags in the order - containers and bags	N(5)	Yes	Yes
9			Total Monetary Amount - Currency ONLY	'Said to Contain' Currency value	10(10)	Yes	Yes
10			Total Monetary Amount - Checks	'Said to Contain' Check value	9(9)v9(2)	No	No
1	11		Total Monetary Amount - Coin	'Said to Contain' Coin value	9(9)v9(2)	No	No
12			Foreign Currency ID & Foreign Currency Total Monetary Amount may occur more than 1x	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxx	No	No
12a			Foreign Currency ID	Identifier for type of foreign currency; Ex: Euro, Pound, etc.	ISO Currency Code	No	No
12b			Foreign Currency Total Monetary Amount (face value)	Value of Foreign Currency	9(9)v9(2)	No	No
13			US Contaminated Currency Total Amount	'Said to Contain' US Contaminated Currency value	9(9)v9(2)	No	No
14		Foreign Contaminated Currency ID and Foreign Currency Contaminated Amount may occur more than 1x -		xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxx	No	No



	14 a			Foreign Contaminated Currency ID	identifies type of foreign currency; Ex. Euro, etc.; #18 and 19 may occur multiple times	ISO Currency Code	No	No
	14 b			Foreign Contaminated Currency Amount Face value contaminated foreign currency; tied to #18		9(9)v9(2)	No	No
	:	15		Armored Transportation ID	Unique ID for the carrier	GLN N(13)	Yes	No
_	- 16		-	Number of Parent containers	Number of parent containers	9(2)	Yes	No
	17	-	-	Total US Currency & Coin	Monetary value of combined US Currency and Coin	9(9)v9(2)	No	No

Order Level 1 - Order totals. Summary Level for an individual Order Could be a Bank or Bank Branch, Carrier or corporate entity.

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Не	Line No. Header xxxxxxxxxx		00000	Order	Comments	Value Type	DI AC Use	FRB Use
110	aaci /							
D	1	0	0	Line Number	Sequentially unique line item number for this Order Start from 1, incrementing by 1, for each Order entity	X(4)	Yes	Yes
D	1	0	1	Order Entity	Order Entity ID (for all subordinate container information)	GLN N(13)	Yes	Yes
D	1	0	2	Order Preparation Date	Date when the order is created	CCYYMMDD	Yes	Yes
D	1	0	3	Order Preparation Time	Time when the order is created	ННММ	Yes	Yes
D	1	0	4	Number of Containers/Units	Total number of units/packages for this order. Does not include the Parent Container, if present.	N(5)	Yes	Yes



D	1	0	5	Total Monetary Amount - Currency	Value of Currency	10(10)	Yes	Yes
D	1	0	6	Total Monetary Amount - Checks	Value of Checks	9(9)v9(2)	No	No
D	1	0	7	Total Monetary Amount - Coin	Value of Coin	9(9)v9(2)	No	No
D	1	1	0	Total Monetary Amount - Foreign Currency	Value of Foreign Currency	9(9)v9(2)	No	No
D	1	1	1	- Foreign Currency ID (s)	Identifier for type of foreign currency; Ex: Euro, Pound, etc.	TBD	No	No
D	1	1	2	Total Contaminated Currency	Value of contaminated currency	9(9)	No	No

Order Level 2

ORDER DETAIL - Detail level for EACH individual container/bag/unit belonging to an Order Entity; occurs 1 or more times.

D	2	0	0	Subline Number	Sequentially unique subline number within a Order starting from 1 and incremented by 1 for each child container.	4 digits	Yes	Yes
D	2	0	1	Parent Container ID (An individual container may only reside within 1 Parent Container)	Parent container ID containing the (subordinate) container from Line D201.	SSCC N(20)	No	No
D	2	0	1.1	Child Container/Unit ID	Unique container identifier	SSCC N(20)	Yes	Yes
D	3	0	1	Container Type Code	Package Type Code - Bag, Box, Cassette, Container, Envelope, Brick; Pallet	From list	No	No
D	4	0	1	Total Monetary Amount - Currency	Value of Currency (whole number)	9(9)	Yes	Yes
D	4	0	2	Total Monetary Amount - Checks	Value of Checks	9(9)v9(2)	No	No
D	4	0	3	Total Monetary Amount - Coin	Value of Coin	9(9)v9(2)	No	No
D	4	0	4	Foreign Currency ID & Foreign Currency Total Monetary Amount may occur more than 1x	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxx	No	No

D	4	0	4.1	Foreign Currency ID (s)	Identifier for type of foreign currency; Ex: Euro, Pound, etc.	ISO Currency Code	No	No
D	4	0	5	Total Foreign Currency Monetary Amount (face value)	Value of Foreign Currency	9(9)v9(2)	No	No
D	4	0	6	Total Contaminated Currency	Value of contaminated currency	9(9)	No	No
D	4	0	6.1	Reason for contaminated currency (Added 7/11)	Explanation for contamination	X(80)	No	No
D	4	0	7	Seal Number 1	Seal Number on the unit - Pertains to EITHER the Parent or Child Container SSID (6 N(4 X(3		No	No
D	4	0	8	Seal Number 2	Seal Number on the unit - Pertains to EITHER the Parent or Child Container SSID (GIAI) N(4) X(30)		No	No
D	6	0	0	Denomination Break-out xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx				
D	6	1	0	Monetary Value of \$1 notes	Count of \$1 notes	9(9)	Yes	Yes
D	6	2	0	Monetary Value of \$2 notes	Count of \$2 notes	9(9)	Yes	Yes
D	6	3	0	Monetary Value of \$5 notes	Count of \$5 notes	9(9)	Yes	Yes
D	6	4	0	Monetary Value of \$10 notes	Count of \$10 notes	9(9)	Yes	Yes
D	6	5	0	Monetary Value of \$20 notes	Count of \$20 notes	9(9)	Yes	Yes
D	6	6	0	Monetary Value of \$50 notes	Count of \$50 notes	9(9)	Yes	Yes
D	6	7	0	Monetary Value of \$100 notes	Count of \$100 notes	9(9)	Yes	Yes
D	6	8	0	Monetary Value of \$500 notes	Count of \$500 notes	9(9)	Yes	Yes
D	6	9	0	Monetary Value of \$1000 notes	Count of \$1000 notes	9(9)	Yes	Yes
D	6	10	0	Monetary Value of \$5000 notes	Count of \$5000 notes	9(9)	Yes	Yes
D	6	11	0	Monetary Value of \$10000 notes	Count of 10000 notes	9(9)	Yes	Yes
D	6	11	0	Quantity of \$1 Straps (\$100)	Count of \$1 straps	9(9)	No	No
D	6	11	1	Quantity of \$2 Straps (\$200)	Count of \$2 straps	9(9)	No	No

1 1		Î.	Ī	Over at the set CE Change	1	Ī	Ī	ı
D	6	11	2	Quantity of \$5 Straps (\$500)	Count of \$5 straps	9(9)	No	No
D	6	11	3	Quantity of \$10 Straps (\$1000)	Count of \$10 straps	9(9)	No	No
D	6	11	4	Quantity of \$20 Straps (\$2000)	Count of \$20 straps	9(9)	No	No
D	6	11	5	Quantity of \$50 Straps (\$5000)	Count of \$50 straps		No	No
D	6	11	6	Quantity of \$100 Straps (\$10,000)	Count of \$100 straps	9(9)	No	No
D	6	12	0	Quantity of \$1 Bundle s (\$1000)	Count of \$1 Bundle	9(9)	No	No
D	6	12	1	Quantity of \$2 Bundles (\$2000)	Count of \$2 Bundle	9(9)	No	No
D	6	12	2	Quantity of \$5 Bundles (\$5000)	Count of \$5 Bundle	9(9)	No	No
D	6	12	3	Quantity of \$10 Bundles (\$10,000)	Count of \$10 Bundle	9(9)	No	No
D	6	12	4	Quantity of \$20 Bundles (\$20,000)	Count of \$20 Bundle	9(9)	No	No
D	6	12	5	Quantity of \$50 Bundles (\$50,000)	Count of \$50 Bundle	9(9)	No	No
D	6	12	6	Quantity of \$100 Bundles (\$100,000)	Count of \$100 Bundle	9(9)	No	No
D	7	0	0	Monetary value of Pennies	Value of 1 cent pieces	9(9)v9(2)	No	No
D	7	0	1	Monetary value of Nickels	Value of 5 cent pieces	9(9)v9(2)	No	No
D	7	0	2	Monetary value of Dimes	Value of 10 cent pieces	9(9)v9(2)	No	No
D	7	0	3	Monetary value of Quarters	Value of 25 cent pieces	9(9)v9(2)	No	No
D	7	0	4	Monetary value of Half-Dollars	Value of 50 cent pieces	9(9)v9(2)	No	No
D	7	0	5	Monetary value of Small Coin Dollars	Value of \$1 coin pieces	9(9)	No	No
D	7	0	6	Monetary value of Large Coin Dollars (Eisenhower)	Value of \$1 coin pieces	9(9)	No	No

D	7	1	0	Quantity of \$.01 Roll (50 cents)	Count of \$.01 rolls	9(9)	No	No
D	7	1	1	Quantity of \$.01 1/2 Box (\$12.50)	Count of \$.01 1/2 boxes	9(9)	No	No
D	7	1	2	Quantity of \$.01 Box (\$25.00)	Count of \$.01 Boxes	9(9)	No	No
D	7	1	3	Quantity of \$.01 Bag (\$50.00)	Count of \$.01 Bags	9(9)	No	No
D	7	2	0	Quantity of \$.05 Roll (\$2)	Count of \$.05 rolls	9(9)	No	No
D	7	2	1	Quantity of \$.05 1/2 Box (\$50)	Count of \$.05 1/2 boxes	9(9)	No	No
D	7	2	2	Quantity of \$.05 Box (\$100)	Count of \$.05 Boxes	9(9)	No	No
D	7	2	3	Quantity of \$.05 Bag (\$200)	Count of \$.05 Bags	9(9)	No	No
D	7	3	0	Quantity of \$.10 Roll (\$5)	Count of \$.10 rolls	9(9)	No	No
D	7	3	1	Quantity of \$.10 1/2 Box (\$125)	Count of \$.10 1/2 boxes	9(9)	No	No
D	7	3	2	Quantity of \$.10 Box (\$250)	Count of \$.10 Boxes	9(9)	No	No
D	7	3	3	Quantity of \$.10 Bag (\$1,000)	Count of \$.10 Bags	9(9)	No	No
D	7	4	0	Quantity of \$.25 Roll (\$10)	Count of \$.25 rolls	9(9)	No	No
D	7	4	1	Quantity of \$.25 1/2 Box (\$250)	Count of \$.25 1/2 boxes	9(9)	No	No
D	7	4	2	Quantity of \$.25 Box (\$500)	Count of \$.25 Boxes	9(9)	No	No
D	7	4	3	Quantity of \$.25 Bag (\$1000)	Count of \$.25 Bags	9(9)	No	No
D	7	5	0	Quantity of \$.50 Roll (\$10)	Count of \$.50 rolls	9(9)	No	No
D	7	5	1	Quantity of \$.50 1/2 Box (\$250)	Count of \$.50 1/2 boxes	9(9)	No	No
D	7	5	2	Quantity of \$.50 Box (\$500)	Count of \$.50 Boxes	9(9)	No	No
D	7	5	3	Quantity of \$.50 Bag (\$1000)	Count of \$.50 Bags	9(9)	No	No
D	7	6	0	Quantity of \$1.00 Small Roll (\$25)	Count of Small \$1.00 rolls	9(9)	No	No

D	7	6	1	Quantity of \$1.00 Small 1/2 Box (\$500)	Count of Small \$1.00 1/2 boxes	9(9)	No	No
D	7	6	2	Quantity of \$1.00 Small Box (\$1000)	Count of Small \$1.00 Boxes	9(9)	No	No
D	7	6	3	Quantity of \$1.00 Small Bag (\$2000)	Count of Small \$1.00 Bags	9(9)	No	No
D	7	7	0	Quantity of \$1.00 Large Bag (Eisenhower) (\$1000)	Count of Large \$1.00 Bags	9(9)	No	No
D	7	8	0	Value of Mixed Coin	Value of mixed coin container	9(9)v9(2)	No	No
D	7	9	0	Quantity of \$.01 1/2 Bag (\$25)	Count of \$.01 1/2 Bags	9(9)	No	No
D	7	9	1	Quantity of \$.05 1/2 Bag (\$100)	Count of \$.05 1/2 Bags	9(9)	No	No
D	7	9	2	Quantity of \$.10 1/2 Bag (\$500)	Count of \$.10 1/2 Bags	9(9)	No	No
D	7	9	3	Quantity of \$.25 1/2 Bag (\$500)	Count of \$.25 1/2 Bags	9(9)	No	No
D	7	9	4	Quantity of \$.50 1/2 Bag (\$500)	Count of \$.50 1/2 Bags	9(9)	No	No
D	7	9	5	Quantity of \$1.00 1/2 Small Bag (\$1000)	Count of Small \$1.00 1/2 Bags	9(9)	No	No
D	7	9	6	Quantity of \$1.00 1/2 Large Bag (Eisenhower) (\$500)	Count of Large \$1.00 1/2 Bags	9(9)	No	No

Electronic Receipt (e-receipt) – acknowledging receipt of transaction including exception items. Reference back to original manifest ID.

3	Line No.	ORDER	Comments	Value Type	DI	FRB Use
					AC	
					Use	



	0	Document Type	Unique Document Type CUSTTR -Custody Transfer;	'CUSTTR'	Yes	Yes
	1	Document ID - Same as Order Manifest ID	Unique transaction/document ID; value may not repeat	From Originating Deposit	Yes	Yes
	2	Sender of the Message - Bank/AC	Creator of the message; may or may not be the same party as the Shipper	GLN N(13)	Yes	Yes
(esuodse	3	Receiver of the Message - Bank/AC	Receiver of the message; may or may not be the same party as the Receiver	GLN N(13)	Yes	Yes
Initial Custody Transfer (Response)	4	Transfer Date	Date of transfer from AC	YYYY-MM- DD CCYYMMDD: HHMM	Yes	Yes
stody 1	4.1	Transfer Time	Time of transfer from AC	HH:MM:SS	Yes	Yes
Initial Cu:	5	Signatory 1	Signature (1) of person who accepted deposit	X(30)	Yes	Yes
	6	Signatory 2	Signature (2) of person who accepted deposit	X(30)	Yes	Yes



6.1				Signatory 3	Signature of the person who delivered the depots	X(30)		
DETA	IL			Discrepancy Report - only sent if there is a discrepancy to report	Select from the following section(s) - Coin, Currency, Contaminated Currency, Foreign Currency, Check		Yes	Yes
					Each section may repeat more than once to accommodate multiple containers		Yes	Yes
NEW	7	0	0	COIN DISCREPANCY	Used for coin discrepancy		Yes	No
NEW	7	0	1	Coin - Received Monetary Amount	Monetary amount received	9(9)v9(2)	Yes	No
NEW	7	0	2	Discrepancy Reason Code	Dispute reason (from table)	Tbd	Yes	No
NEW	7	0	3	Container ID	Unique container identifier	SSCC N(20)	Yes	No
NEW	7	0	4	Seal Number	Seal number on the container	SSID (GIAI) N(4) X(130)	No	No
NEW	7	1	0	US CURRENCY DISCREPANCY	Used for currency discrepancy		Yes	Yes



NEW	7	1	1	US Currency - Received Monetary Amount	Monetary amount received	9(9)v9(2)	Yes	Yes
NEW	7	1	2	Discrepancy Reason Code	Dispute reason (from table)	See table in this guide	Yes	Yes
NEW	7	1	3	Container ID	Unique container identifier	SSCC N(20)	Yes	Yes
NEW	7	1	4	Seal Number	Seal number on the container	SSID (GIAI) N(4) X(130)	No	No
NEW	7	2	0	CONTAMINATED CURRENCY	Used For contaminated currency discrepancy		Yes	Yes
NEW	7	2	1	Contaminated Currency - Received Monetary Amount	Monetary amount received	9(9)v9(2)	Yes	Yes
NEW	7	2	2	Discrepancy Reason Code	Dispute reason (from table)	Tbd	Yes	Yes
NEW	7	2	3	Container ID	Unique container identifier	SSCC N(20)	Yes	Yes
NEW	7	2	4	Seal Number	Seal number on the container	SSID (GIAI) N(4) X(130)	Yes	Yes
NEW	7	3	0	FOREIGN CURRENCY DISCREPANCY	Used for currency discrepancy; repeat for each currency type		Yes	No



NEW	7	3	1	Foreign Currency ID	Identifier for the foreign currency	ISO Currency Code	Yes	No
NEW	7	3	2	Currency Received Monetary Amount	Monetary amount received	9(9)v9(2)	Yes	No
NEW	7	3	3	Discrepancy Reason Code	Dispute reason (from table)	Tbd	Yes	No
NEW	7	3	4	Container ID	Unique container identifier	SSCC N(20)	Yes	No
NEW	7	3	5	Seal Number	Seal number on the container	SSID (GIAI) N(4) X(130)	Yes	No
NEW	7	4	0	CHECKS	Used For contaminated currency discrepancy		Yes	No
NEW	7	4	1	Check Summary: Received Monetary Amount	Total check amount	9(9)v9(2)	Yes	No
NEW	7	4	2	Discrepancy Reason Code	Dispute reason (from table)	Tbd	Yes	No
NEW	7	4	3	Container ID	Unique container identifier	SSCC N(20)	Yes	No
NEW	7	4	4	Seal Number	Seal number on the container	SSID (GIAI) N(4) X(130)	Yes	No



3.4.2 DEPOSIT PROCESS

Deposit Process Data Elements (Updated 01.16.2020)

1			ne lo.		DEPOSIT	Comments	Value Type	DI AC Use	FRB Use
	He	eader	nfor	matio	n xxxxxxxxxxxxxxxxxxxxxx	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
			0		Document Type	Unique Document Type - Deposit Notification – Notification of physical deposit about to be delivered using DEPNOT - Deposit Request – Request for vault to prepare a deposit that will then be delivered using the DEPREQ value type	'DEPNOT' or 'DEPREQ'	Yes	Yes
			1		Manifest ID/Document ID	Unique transaction/document ID; value may not repeat	X(20)	Yes	Yes
tomer ɔect" file		2			Sender of the Message	Identifier of the sender of the DEPNOT message; may or may not be the same party as the Shipper	GLN N(13)	Yes	Yes
Initial Customer "What to Expect" file		3			Receiver of the Message	Receiver of the DEPNOT message; may or may not be the same party as the Receiver	GLN N(13)	Yes	Yes
_ >		4			Notification Date	Date when 'DEPNOT what to expect' file was created	CCYYMMDD:	Yes	Yes
		5			Notification Time	Time when 'DEPNOT what to expect' file was created	ннмм	Yes	Yes
				Ship-From PartyID	The GLN of the Party/physical location from where the currency is being shipped. Required when the Shipper ID/location is not the same as the Ship-From Party ID.	GLN N(13)	Yes	Yes	

7	Ship-To Party ID	The GLN of the Party/physical location which will receive the funds if the Receiving party is different from Receiver ID	GLN N(13)	Yes	Yes
8	Number of Containers/Units	Number of physical packages/cassettes/bags in the deposit - containers and bags	N(5)	Yes	Yes
9	Total Monetary Amount - Currency ONLY	'Said to Contain' Currency value	10(10)	Yes	Yes
10	Total Monetary Amount – Checks	'Said to Contain' Check value	9(9)v9(2)	No	No
11	Total Monetary Amount - Coin	9(9)v9(2)	No	No	
12	Foreign Currency ID & Foreign Currency Total Monetary Amount may occur more than 1x	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxx	No	No
12a	Foreign Currency ID	Identifier for type of foreign currency; Ex: Euro, Pound, etc.	ISO Currency Code	No	No
12b	Foreign Currency Total Monetary Amount (face value)	Value of Foreign Currency	9(9)v9(2)	No	No
13	US Contaminated Currency Total Amount	'Said to Contain' US Contaminated Currency value	9(9)v9(2)	No	No
14	Foreign Contaminated Currency ID and Foreign Currency Contaminated Amount may occur more than 1x -	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxx	No	No
14 a	Foreign Contaminated Currency	identifies type of foreign currency; Ex. Euro, etc.; #18 and 19 may occur multiple times	ISO Currency Code	No	No
14 b	Foreign Contaminated Currency Amount	Face value contaminated foreign currency; tied to #18	9(9)v9(2)	No	No



	1	.5		Armored Transportation ID	Unique ID for the carrier	GLN N(13)	Yes	No
-	16	_	-	Number of Parent containers	Number of parent containers (containing the deposits of Line 10.)	9(2)	Yes	No
	17	_	-	Total US Currency & Coin	Monetary value of combined US Currency and Coin	9(9)v9(2)	No	No

Detail Level 1 - Depositor totals. Summary Level for an individual Depositor. Could be a Bank or Bank Branch, Carrier or corporate entity.

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	Line	e No.		DEPOSIT	Comments	Value Type	DI AC Use	FRB Use
He	ader	XXXXX	ххххх	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	хх			
D	0 1 0 0 Line Number				Sequentially unique line item number for this Depositor. Start from 1, incrementing by 1, for each Depositor.	X(4)	Yes	Yes
D	1	0	1	Depositor	Depositor ID (for all subordinate container information)	GLN N(13)	Yes	Yes
D	1	0	2	Deposit Preparation Date	Date when the deposit is created	CCYYMMDD	Yes	Yes
D	1	0	3	Deposit Preparation Time	Time when the deposit is created	ННММ	Yes	Yes
D	1	0	4	Number of Containers/Units	Total number of units/packages for this Depositor/Deposit. Does not include the Parent Container, if present.	N(5)	Yes	Yes
D	1	0	5	Total Monetary Amount – Currency	Value of Currency	10(10)	Yes	Yes
D	1	0	6	Total Monetary Amount – Checks	Value of Checks	9(9)v9(2)	No	No
D	1	0	7	Total Monetary Amount - Coin	9(9)v9(2)	No	No	



D	1	1	0	Total Monetary Amount - Foreign Currency	Value of Foreign Currency	9(9)v9(2)	No	No
D	1	1	1	- Foreign Currency ID (s)	Identifier for type of foreign currency; Ex: Euro, Pound, etc.	TBD	No	No
D	1	1	2	Total Contaminated Currency	Value of contaminated currency	9(9)	No	No
_	tail Le			Detail level for EACH individual cor	ntainer/bag/unit belonging to a Depositor; occurs 1 or more tim	ies.		
D	2	0	0	Subline Number	Sequentially unique subline number within a Deposit, starting from 1 and incremented by 1 for each child container.	4 digits	Yes	Yes
D	2	0	1	Parent Container ID (An individual container may only reside within 1 Parent Container)	Parent container ID containing the (subordinate) container from Line D201.	SSCC N(20)	No	No
D	2	0	1.1	Child Container/Unit ID	Unique container identifier	SSCC N(20)	Yes	Yes
D	3	0	1	Container Type Code	Package Type Code - Bag, Box, Cassette, Container, Envelope, Brick; Pallet	From list	No	No
D	4	0	1	Total Monetary Amount – Currency	Value of Currency (whole number)	9(9)	Yes	Yes
D	4	0	2	Total Monetary Amount – Checks	Value of Checks	9(9)v9(2)	No	No
D	4	0	3	Total Monetary Amount - Coin	Value of Coin	9(9)v9(2)	No	No
D	4	0	4	Foreign Currency ID & Foreign Currency Total Monetary Amount may occur more than 1x		xxxxxxxxxxx	No	No
D	4	0	4.1	Foreign Currency ID (s)	Currency ID (s) Identifier for type of foreign currency; Ex: Euro, Pound, etc.			
D	4	0	5	Total Foreign Currency Monetary Amount (face value)	9(9)v9(2)	No	No	

D	4	0	6	Total Contaminated Currency	Value of contaminated currency	9(9)	No	No
D	4	0	6.1	Reason for contaminated currency (Added 7/11)	Explanation for contamination	X(80)	No	No
D	4	0	7	Seal Number 1	Seal Number on the unit - Pertains to EITHER the Parent or Child Container	SSID (GIAI) N(4) X(30)	No	No
D	4	0	8	Seal Number 2	Seal Number on the unit - Pertains to EITHER the Parent or Child Container	SSID (GIAI) N(4) X(30)	No	No
D	6	0	0	Denomination Break-out xxxxxxx Note: FED will assign GTINs to ea	οοοοοοοοοοοοοοοοοοοοοοοοοοοοοοοοοοοοο			
D	6	1	0	Monetary Value of \$1 notes	Count of \$1 notes	9(9)	Yes	Yes
D	6	2	0	Monetary Value of \$2 notes	Count of \$2 notes	9(9)	Yes	Yes
D	6	3	0	Monetary Value of \$5 notes	Count of \$5 notes	9(9)	Yes	Yes
D	6	4	0	Monetary Value of \$10 notes	Count of \$10 notes	9(9)	Yes	Yes
D	6	5	0	Monetary Value of \$20 notes	Count of \$20 notes	9(9)	Yes	Yes
D	6	6	0	Monetary Value of \$50 notes	Count of \$50 notes	9(9)	Yes	Yes
D	6	7	0	Monetary Value of \$100 notes	Count of \$100 notes	9(9)	Yes	Yes
D	6	8	0	Monetary Value of \$500 notes	Count of \$500 notes	9(9)	Yes	Yes
D	6	9	0	Monetary Value of \$1000 notes	Count of \$1000 notes	9(9)	Yes	Yes
D	6	10	0	Monetary Value of \$5000 notes	Count of \$5000 notes	9(9)	Yes	Yes
D	6	11	0	Monetary Value of \$10000 notes	Count of 10000 notes	9(9)	Yes	Yes
D	6	11	0	Quantity of \$1 Straps (\$100)	LOO) Count of \$1 straps 9(9)		No	No
D	6	11	1	Quantity of \$2 Straps (\$200)	00) Count of \$2 straps			
D	6	11	2	Quantity of \$5 Straps (\$500)	' ' I Count of \$5 ctrans I Q(Q) I N			

D	6	11	3	Quantity of \$10 Straps (\$1000)	Count of \$10 straps	9(9)	No	No
D	6	11	4	Quantity of \$20 Straps (\$2000)	Count of \$20 straps	9(9)	No	No
D	6	11	5	Quantity of \$50 Straps (\$5000)	Count of \$50 straps	9(9)	No	No
D	6	11	6	Quantity of \$100 Straps (\$10,000)	Count of \$100 straps	9(9)	No	No
D	6	12	0	Quantity of \$1 Bundle s (\$1000)	Count of \$1 Bundle	9(9)	No	No
D	6	12	1	Quantity of \$2 Bundles (\$2000)	Count of \$2 Bundle	9(9)	No	No
D	6	12	2	Quantity of \$5 Bundles (\$5000)	Count of \$5 Bundle	9(9)	No	No
D	6	12	3	Quantity of \$10 Bundles (\$10,000)	Count of \$10 Bundle	9(9)	No	No
D	6	12	4	Quantity of \$20 Bundles (\$20,000)	Count of \$20 Bundle	9(9)	No	No
D	6	12	5	Quantity of \$50 Bundles (\$50,000)	Count of \$50 Bundle	9(9)	No	No
D	6	12	6	Quantity of \$100 Bundles (\$100,000)	Count of \$100 Bundle	9(9)	No	No
D	7	0	0	Monetary value of Pennies	Value of 1 cent pieces	9(9)v9(2)	No	No
D	7	0	1	Monetary value of Nickels	Value of 5 cent pieces	9(9)v9(2)	No	No
D	7	0	2	Monetary value of Dimes	Value of 10 cent pieces	9(9)v9(2)	No	No
D	7	0	3	Monetary value of Quarters	Value of 25 cent pieces	9(9)v9(2)	No	No
D	7	0	4	Monetary value of Half-Dollars	Value of 50 cent pieces	9(9)v9(2)	No	No
D	7	0	5	Monetary value of Small Coin Dollars	Value of \$1 coin pieces	9(9)	No	No
D	7	0	6	Monetary value of Large Coin Dollars (Eisenhower)	Value of \$1 coin pieces	9(9)	No	No
D	7	1	0	Quantity of \$.01 Roll (50 cents) Count of \$.01 rolls		9(9)	No	No

D	7	1	1	Quantity of \$.011/2 Box (\$12.50)	Count of \$.01 1/2 boxes	9(9)	No	No
D	7	1	2	Quantity of \$.01 Box (\$25.00)	Count of \$.01 Boxes	9(9)	No	No
D	7	1	3	Quantity of \$.01 Bag (\$50.00)	Count of \$.01 Bags	9(9)	No	No
D	7	2	0	Quantity of \$.05 Roll (\$2)	Count of \$.05 rolls	9(9)	No	No
D	7	2	1	Quantity of \$.05 1/2 Box (\$50)	Count of \$.05 1/2 boxes	9(9)	No	No
D	7	2	2	Quantity of \$.05 Box (\$100)	Count of \$.05 Boxes	9(9)	No	No
D	7	2	3	Quantity of \$.05 Bag (\$200)	Count of \$.05 Bags	9(9)	No	No
D	7	3	0	Quantity of \$.10 Roll (\$5)	Count of \$.10 rolls	9(9)	No	No
D	7	3	1	Quantity of \$.10 1/2 Box (\$125)	Count of \$.10 1/2 boxes	9(9)	No	No
D	7	3	2	Quantity of \$.10 Box (\$250)	Count of \$.10 Boxes	9(9)	No	No
D	7	3	3	Quantity of \$.10 Bag (\$1,000)	Count of \$.10 Bags	9(9)	No	No
D	7	4	0	Quantity of \$.25 Roll (\$10)	Count of \$.25 rolls	9(9)	No	No
D	7	4	1	Quantity of \$.25 1/2 Box (\$250)	Count of \$.25 1/2 boxes	9(9)	No	No
D	7	4	2	Quantity of \$.25 Box (\$500)	Count of \$.25 Boxes	9(9)	No	No
D	7	4	3	Quantity of \$.25 Bag (\$1000)	Count of \$.25 Bags	9(9)	No	No
D	7	5	0	Quantity of \$.50 Roll (\$10)	Count of \$.50 rolls	9(9)	No	No
D	7	5	1	Quantity of \$.50 1/2 Box (\$250)	Count of \$.50 1/2 boxes	9(9)	No	No
D	7	5	2	Quantity of \$.50 Box (\$500)	Count of \$.50 Boxes	9(9)	No	No
D	7	5	3	Quantity of \$.50 Bag (\$1000)	Count of \$.50 Bags	9(9)	No	No
D	7	6	0	Quantity of \$1.00 Small Roll (\$25)	Count of Small \$1.00 rolls	9(9)	No	No
D	7	6	1	Quantity of \$1.00 Small 1/2 Box (\$500)	Count of Small \$1.00 1/2 boxes	9(9)	No	No

D	7	6	2	Quantity of \$1.00 Small Box (\$1000)	Count of Small \$1.00 Boxes	9(9)	No	No
D	7	6	3	Quantity of \$1.00 Small Bag (\$2000)	Count of Small \$1.00 Bags	9(9)	No	No
D	7	7	0	Quantity of \$1.00 Large Bag (Eisenhower) (\$1000)	Count of Large \$1.00 Bags	9(9)	No	No
D	7	8	0	Value of Mixed Coin	Value of mixed coin container	9(9)v9(2)	No	No
D	7	9	0	Quantity of \$.01 1/2 Bag (\$25)	Count of \$.01 1/2 Bags	9(9)	No	No
D	7	9	1	Quantity of \$.05 1/2 Bag (\$100)	Count of \$.05 1/2 Bags	9(9)	No	No
D	7	9	2	Quantity of \$.101/2 Bag (\$500)	Count of \$.10 1/2 Bags	9(9)	No	No
D	7	9	3	Quantity of \$.25 1/2 Bag (\$500)	Count of \$.25 1/2 Bags	9(9)	No	No
D	7	9	4	Quantity of \$.50 1/2 Bag (\$500)	Count of \$.50 1/2 Bags	9(9)	No	No
D	7	9	5	Quantity of \$1.00 1/2 Small Bag (\$1000)	Count of Small \$1.00 1/2 Bags	9(9)	No	No
D	7	9	6	Quantity of \$1.00 1/2 Large Bag (Eisenhower) Count of Large \$1.00 1/2 Bags (\$500)		9(9)	No	No

Electronic Receipt (e-receipt) – acknowledging receipt of transaction including exception items. Reference back to original manifest ID.



3	Line No.	DEPOSIT	Comments	Value Type	DI AC Use	FRB Use
	0	Document Type	Unique Document Type CUSTTR -Custody Transfer; responded to Deposit acknowledging receipt of deposit	'CUSTTR' or 'DEPCNF'	Yes	Yes
			DEPCNF – Deposit request confirmation used to confirm deposit request DEPREQ has been received			
Initial Custody Transfer (Response)	1	Document ID - Same as Deposit ID	Unique transaction/document ID; value may not repeat	From Originating Deposit	Yes	Yes
ody Transfe	2	Sender of the Message - Bank/AC	Creator of the message; may or may not be the same party as the Shipper	GLN N(13)	Yes	Yes
Initial Custo	3	Receiver of the Message - Bank/AC	Receiver of the message; may or may not be the same party as the Receiver	GLN N(13)	Yes	Yes



4				Transfer Date	Date of transfer from AC	YYYY-MM- DD CCYYMMDD: HHMM	Yes	Yes
4.1				Transfer Time	Time of transfer from AC	HH:MM:SS	Yes	Yes
5				Signatory 1	Signature (1) of person who accepted deposit	X(30)	Yes	Yes
6				Signatory 2	Signature (2) of person who accepted deposit	X(30)	Yes	Yes
6.1				Signatory 3	Signature of the person who delivered the depots	X(30)		
DETA	IL			Discrepancy Report - only sent if there is a discrepancy to report	Select from the following section(s) - Coin, Currency, Contaminated Currency, Foreign Currency, Check		Yes	Yes
					Each section may repeat more than once to accommodate multiple containers		Yes	Yes
NEW	7	0	0	COIN DISCREPANCY	Used for coin discrepancy		Yes	No



NEW	7	0	1	Coin - Received Monetary Amount	Monetary amount received	9(9)v9(2)	Yes	No
NEW	7	0	2	Discrepancy Reason Code	Dispute reason (from table)	tbd	Yes	No
NEW	7	0	3	Container ID	Unique container identifier	SSCC N(20)	Yes	No
NEW	7	0	4	Seal Number	Seal number on the container	SSID (GIAI) N(4) X(130)	No	No
NEW	7	1	0	US CURRENCY DISCREPANCY	Used for currency discrepancy		Yes	Yes
NEW	7	1	1	US Currency - Received Monetary Amount	Monetary amount received	9(9)v9(2)	Yes	Yes
NEW	7	1	2	Discrepancy Reason Code	Dispute reason (from table)	See table in this guide	Yes	Yes
NEW	7	1	3	Container ID	Unique container identifier	SSCC N(20)	Yes	Yes
NEW	7	1	4	Seal Number	Seal number on the container	SSID (GIAI) N(4) X(130)	No	No
NEW	7	2	0	CONTAMINATED CURRENCY	Used For contaminated currency discrepancy		Yes	Yes
NEW	7	2	1	Contaminated Currency - Received Monetary Amount	Monetary amount received	9(9)v9(2)	Yes	Yes



NEW	7	2	2	Discrepancy Reason Code	Dispute reason (from table)	tbd	Yes	Yes
NEW	7	2	3	Container ID	Unique container identifier	SSCC N(20)	Yes	Yes
NEW	7	2	4	Seal Number	Seal number on the container	SSID (GIAI) N(4) X(130)	Yes	Yes
NEW	7	3	0	FOREIGN CURRENCY DISCREPANCY	Used for currency discrepancy; repeat for each currency type		Yes	No
NEW	7	3	1	Foreign Currency ID	Identifier for the foreign currency	ISO Currency Code	Yes	No
NEW	7	3	2	Currency Received Monetary Amount	Monetary amount received	9(9)v9(2)	Yes	No
NEW	7	3	3	Discrepancy Reason Code	Dispute reason (from table)	tbd	Yes	No
NEW	7	3	4	Container ID	Unique container identifier	SSCC N(20)	Yes	No
NEW	7	3	5	Seal Number	Seal number on the container	SSID (GIAI) N(4) X(130)	Yes	No
NEW	7	4	0	CHECKS	Used For contaminated currency discrepancy		Yes	No
NEW	7	4	1	Check Summary: Received Monetary Amount	Total check amount	9(9)v9(2)	Yes	No



NEW	7	4	2	Discrepancy Reason Code	Dispute reason (from table)	tbd	Yes	No
NEW	7	4	3	Container ID	Unique container identifier	SSCC N(20)	Yes	No
NEW	7	4	4	Seal Number	Seal number on the container	SSID (GIAI)N(4) X(130)	Yes	No

4 GOVERNANCE/CHANGE CONTROL

Governance of this guide will be maintained by the Customer Advisory Council (CAC) Cash Visibility (CV) Subcommittee. GS1 US may be asked to provide research and advice on matters pertaining to GS1 standards.

Industry requests to update, delete, or modify Cash Visibility standards will be reviewed and approved or denied by the Customer Advisory Council (CAC) Cash Visibility (CV) Subcommittee.

A request to update, delete, or modify Cash Visibility standards will be submitted by CAC member to the CAC CV subcommittee. The CAC CV subcommittee chair or co-chairs will bring forward the request to the CAC CV subcommittee members for review and discussion. Depending on the type of change requested, a subgroup to research the impact may be established.

Once the request has been reviewed by the group, a member vote will take place to determine if the request is approved or denied. All decisions will be documented in the CAC CV subcommittee meeting notes. An approved request will be updated with the Cash Traceability Standards Guide, communicated to the CAC, and updated on the CAC or GS1 US site(s).



5 ADDITIONAL INFORMATION

5.1 GS1 COMPANY PREFIX

Below is an example of the impact of different length GS1 Company Prefixes on the capacity that can be assigned from a single prefix.

GS1 Company Prefix Length	Enabled (Capacity)
Seven Digits	100,000
(ONNNNN)	
Eight Digits	10,000
(ONNNNNNN)	
Nine Digits	1,000
(ONNNNNNN)	
Ten Digits	100
(ONNNNNNNN)	
Eleven Digits	10
(ОИИИИИИИИИ)	

Identifiers	Capacity
GTIN (Global Trade Item Number)	100 types of products you sell
GLN (Global Location Number)	100 physical locations
GRAI (Global Returnable Asset Identifier)	100 types of returnable assets
GDTI(Global Document Type Identifier)	100 types of documents
SSCC (Serial Shipping Container Code)	1,000,000 shipments of goods
GSRN (Global Service Relationship Number)	10,000,000 service relationships
GIAI (Global Individual Asset Identifier)	10^20 (that's a Sextillion!) individual assets

To learn more about the GS1 Company Prefix visit www.gs1us.org/resources/standards/company-prefix.

5.2 ALL GS1 IDENTIFICATION KEYS

To learn more about GLN, SSCC, GSIN, , GRAI, GIAI and GTIN assignments, please visit www.gs1us.org/resources/standards.



6 APPENDICES

6.1 APPENDIX A: GS1 APPLICATION IDENTIFIERS

Over 140 Als currently exist within the GS1 System and a complete list of Applications Identifiers can be found in the GS1 General Specifications (http://www.gs1us.org/).

*The first position indicates the length (number of digits) of the GS1 Application Identifier. The following value refers to the format of the data content. The following convention is applied:

- N numeric digit
- X any character
- N3 3 numeric digits, fixed length
- N..3 up to 3 numeric digits
- X..3 up to 3 characters

Al	Data Content	Format*	FNC1 Required	Data Title
00	SSCC (Serial Shipping Container Code)	N2+N18		SSCC
01	Global Trade Item Number (GTIN)	N2+N14		GTIN
402	Global Shipment Identification Number (GSIN)	N3+N17	(FNC1)	GSIN
414	Identification of a Physical Location - Global Location Number (GLN)	N3+N13		LOC No
8003	Global Returnable Asset Identifier (GRAI)	N4+N14+X16	(FNC1)	GRAI
8004	Global Individual Asset Identifier (GIAI)	N4+X30	(FNC1)	GIAI



6.2 APPENDIX B: DENOMINATION BREAKDOWN - NON-MERCHANT

Currency and Coin Ordering Increment Types and Values

Non-Merchant Parties

Currency Types:	Single Note ATM	Single Note Fit	Single Note New	Strap ATM	Strap Fit	Strap New	Bundle ATM	Bundle Fit	Bundle New	Brick New	Cashpak New
Currency Denom.	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value
\$1	1	\$1	\$1	\$100	\$100	\$100	\$1,000	\$1,000	\$1,000	\$4,000	\$16,000
\$2	2	\$2	\$2	\$200	\$200	\$200	\$2,000	\$2,000	\$2,000	\$8,000	\$32,000
\$5	5	\$5	\$5	\$500	\$500	\$500	\$5,000	\$5,000	\$5,000	\$20,000	\$80,000
\$10	10	\$10	\$10	\$1,000	\$1,000	\$1,000	\$10,000	\$10,000	\$10,000	\$40,000	\$160,000
\$20	20	\$20	\$20	\$2,000	\$2,000	\$2,000	\$20,000	\$20,000	\$20,000	\$80,000	\$320,000
\$50	50	\$50	\$50	\$5,000	\$5,000	\$5,000	\$50,000	\$50,000	\$50,000	\$200,000	\$800,000
\$100	100	\$100	\$100	\$10,000	\$10,000	\$10,000	\$100,000	\$100,000	\$100,000	\$400,000	\$1,600,000

<u>Coin</u> Types:	Piece	Roll	Вох	1/2 Box	Bag	1/2 Bag
Coin Denom.	Value	Value	Value			
\$0.01	\$0.01	\$0.50	\$25.00	\$12.50	\$50.00	\$25.00
\$0.05	\$0.05	\$2.00	\$100.00	\$50.00	\$200.00	\$100.00
\$0.10	\$0.10	\$5.00	\$250.00	\$125.00	\$1,000.00	\$500.00
\$0.25	\$0.25	\$10.00	\$500.00	\$250.00	\$1,000.00	\$500.00
\$0.50	\$0.50	\$10.00	\$500.00	\$250.00	\$1,000.00	\$500.00
\$1.00 (S)	\$1.00	\$25.00	\$1,000.00	\$500.00	\$2,000.00	\$1,000.00
\$1.00 (L)	\$1.00	n/a	n/a	n/a	\$1,000.00	\$500.00

Small - Presidential, Native American, Susan B Anthony

Large - Eisenhower



6.3 APPENDIX C: DENOMINATION BREAKDOWN - MERCHANT

Currency and Coin Ordering Increment Types and Values

Merchant Order Options (Dark type) (subject to change)

Currency Types:	Single Note ATM	Single Note Fit	Single Note New	Strap ATM	Strap Fit	Strap New	Bundle ATM	Bundle Fit	Bundle New	Brick New	Cashpak New
Currency Denom.	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value	Value
\$1	1	\$1	\$1	\$ 100	\$ 100	\$ 100	\$1,000	\$1,000	\$1,000	\$4,000	\$16,000
\$2	2	\$2	\$2	\$ 200	\$ 200	\$ 200	\$2,000	\$2,000	\$2,000	\$8,000	\$32,000
\$5	5	\$5	\$5	\$ 500	\$ 500	\$ 500	\$5,000	\$5,000	\$5,000	\$20,000	\$80,000
\$10	10	\$10	\$10	\$1,000	\$1,000	\$1,000	\$10,000	\$10,000	\$10,000	\$40,000	\$160,000
\$20	20	\$20	\$20	\$2,000	\$2,000	\$2,000	\$20,000	\$20,000	\$20,000	\$80,000	\$320,000
\$50	50	\$50	\$50	\$5,000	\$5,000	\$5,000	\$50,000	\$50,000	\$50,000	\$200,000	\$800,000
\$100	100	\$100	\$100	\$10,000	\$10,000	\$10,000	\$100,000	\$100,000	\$100,000	\$400,000	\$1,600,000

Coin Types:	Piece	Roll	Box	1/2 Box	Bag	1/2 Bag
Coin Denom.	Value	Value	Value			
\$0.01	\$0.01	\$0.50	\$25.00	\$12.50	\$50.00	\$25.00
\$0.05	\$0.05	\$2.00	\$100.00	\$50.00	\$200.00	\$100.00
\$0.10	\$0.10	\$5.00	\$250.00	\$125.00	\$1,000.00	\$500.00
\$0.25	\$0.25	\$10.00	\$500.00	\$250.00	\$1,000.00	\$500.00
\$0.50	\$0.50	\$10.00	\$500.00	\$250.00	\$1,000.00	\$500.00
\$1.00 (S)	\$1.00	\$25.00	\$1,000.00	\$500.00	\$2,000.00	\$1,000.00
\$1.00 (L)	\$1.00	n/a	n/a	n/a	\$1,000,00	\$500.00

Small - Presidential, Native American, Susan B Anthony

Large - Eisenhower



6.4 APPENDIX D: PACKAGE CALCULATIONS

PACKAGE FOLIVALENTS EXAMPLES

COMMENTS

Currency and Coin Package Calculations

ORDER

	ORDER	COMMENIS	PACKA	SE EQUIVA	LENIS	EXAMPLES								
#	CURRENCY – Denom. Break	down	Piece	Value	Strap	Value	Bundle	Value	Brick	Value	Cash Pac	Value		
1	Quantity of \$1 notes	Count of \$1 notes	1	\$1	100	\$100	1000	\$1,000	4000	\$4,000	16,000	\$16,000		
2	Quantity of \$2 notes	Count of \$2 notes	1	\$2	100	\$200	1000	\$2,000	4000	\$8,000	16,000	\$32,000		
5	Quantity of \$5 notes	Count of \$5 notes	1	\$5	100	\$500	1000	\$5,000	4000	\$20,000	16,000	\$80,000		
10	Quantity of \$10 notes	Count of \$10 notes	1	\$10	100	\$1,000	1000	\$10,000	4000	\$40,000	16,000	\$160,000		
20	Quantity of \$20 notes	Count of \$20 notes	1	\$20	100	\$2,000	1000	\$20,000	4000	\$80,000	16,000	\$320,000		
50	Quantity of \$50 notes	Count of \$50 notes	1	\$50	100	\$5,000	1000	\$50,000	4000	\$200,000	16,000	\$800,000		
100	Quantity of \$100 notes	Count of \$100 notes	1	\$100	100	\$10,000	1000	\$100,000	4000	\$400,000	16,000	\$1,600,000		
	ORDER	COMMENTS	PACKAG	E EQUIVA	LENTS E	XAMPLES								
#	COIN – Denom. Break	down	Piece	Value	Roll	Value	Box	Value	1/2 Box	Value	Bag	Value	1/2 Bag	Value
0.01	Quantity of Pennies	Value of 1 cent pieces	1	\$0.01	50	\$0.50	2500	\$25.00	1250	\$12.50	5000	\$50.00	2500	\$25.00
0.05	Quantity of Nickels	Value of 5 cent pieces	1	\$0.05	40	\$2.00	2000	\$100.00	1000	\$50.00	4000	\$200.00	2000	\$100.00
0.1	Quantity of Dimes	Value of 10 cent pieces	1	\$0.10	50	\$5.00	2500	\$250.00	1250	\$125.00	10000	\$1,000.00	5000	\$500.00
0.25	Quantity of Quarters	Value of 25 cent pieces	1	\$0.25	40	\$10.00	2000	\$500.00	1000	\$250.00	4000	\$1,000.00	2000	\$500.00
0.5	Quantity of Half-Dollars	Value of 50 cent pieces	1	\$0.50	20	\$10.00	1000	\$500.00	500	\$250.00	2000	\$1,000.00	1000	\$500.00
1	Quantity of Small Dollars	Value of 1.00 dollar pieces	1	\$1.00	25	\$25.00	1000	\$1,000.00	500	\$500.00	2000	\$2,000.00	1000	\$1,000.00



Quantity of Large Dollars	Value of 1.00 dollar pieces	1	\$1.00	N/A	N/A	N/A	N/A	N/A	N/A	1000	\$1,000.00	500	\$500.00
Mixed Bag		Mixed	Manual										

Small - Presidential, Native American, Susan B Anthony

Large - Eisenhower

HALF BOX INCREMENT



6.5	APPENDIX F:	LIST OF	TABLES AND	FIGURES

FIGURE 1	CACH CLIDDI A	CHAIN	22



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