ANSI MH10.8.2-2006 (revision of ANSI MH10.8.2-2002)



American National Standard

Data Identifier and Application Identifier Standard

Approved: 9 October 2006

Abstract

This standard provides a comprehensive dictionary of MH 10/SC 8 Data Identifiers and GS1 Application Identifiers, provides for the assignment of new Data Identifiers, as required, and provides a document detailing the correlation, or mapping, of Data Identifiers to Application Identifiers, where a correlation exists.



Material Handling Industry 8720 Red Oak Blvd., Suite 201 Charlotte, NC 28217-3992 Printed: February 2003

American National Standard

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Foreword (this forward is not part of American National Standard MH10.8.2-2006)

The Federation of Automatic Coding Technologies (FACT) developed a standard for Data Identifiers (DIs) in 1989. In early 1990 FACT submitted the FACT Data Identifier Standard dated 2 October 1989 to the American National Standards Institute (ANSI). This standard was approved in 1991 and has been published as ANSI/FACT-1-1991.

In 1991 the Uniform Code Council (GS1) and the EAN International (EAN), known as GS1, adopted an expanded list of application identifiers which served many of the same purposes as had been accomplished with FACT DIs. These GS1 identifiers are known as Application Identifiers (AIs).

The existence of two approaches to accomplish the same level of identification became a burden to those companies supplying general trade product to many customers. FACT was asked to develop a standard that would harmonize these two approaches.

The stated mission of the GS1 is to enable "...related distribution channels to operate more efficiently and effectively while contributing added value..." to the end user. FACT's mission statement included a charge to "...reduce the proliferation of conflicting bar code standards..." to achieve similar efficiencies.

Recognizing their common missions, FACT and GS1 committed to the development of a committee that would issue a comprehensive dictionary of Data and Application Identifiers. The dictionary would be submitted to ANSI as a revision for ANSI/FACT-1, 1991. On December 31, 1992, the FACT organization was dissolved. Prior to its dissolution, the Sub-committee 8 of Accredited Standards Committee (ASC) MH10 agreed to continue its maintenance and assume responsibility for the document.

It is the mission of this committee to develop a comprehensive dictionary of Data and Application Identifiers, assign new Data Identifiers, as required, and to provide a document detailing the correlation, or mapping, of Data Identifiers to Application Identifiers, where a correlation exists.

As with any American National standard, new requirements are identified and interested parties request the assignment of new Data Identifiers and Application Identifiers to meet the needs of a particular industry or activity. ANSI has designated this standard as being "Under Continuous Maintenance". Proposed changes to the standard that are accepted by the MH10.8.2 Data Identifier Committee shall be integrated into the previously published version at the recommendation of the committee. Upon approval of the new version by MH10 Subcommittee 8 and the full MH10 committee, the standard will be published as a new version.

The committee plans to incorporate accepted revisions into the standard as frequently as necessary, but in no case will a published revised standard be issued more frequently than yearly, in line with indicated needs and industry developments. Each accepted revision since the last published version shall be identified in a "Document Maintenance Summary" appearing immediately before the Table of Contents of the standard.

This standard has been updated from the last published issue of ANS MH10.8.2 representing the second five-year revision of the standard, published in 2002; the first revision occurring in 1995. Requests received subsequent to the date of the standard will be added to the draft standard for trial use and will be considered for incorporation at the third five-year revision of the standard.

Users desiring assignment of new Data Identifiers may submit their request to the ANSI MH 10/SC 8/WG 2 Chairman, Craig K. Harmon (Tel: +1 319/364-0212 • Fax: +1 319/365-8814 • email: craig.harmon@qed.org).

Users desiring assignment of new Application Identifiers may submit their request to http://www.gs1.org/.

Note:

The following annexes are provided:

- Annex A Quick Reference to Data Identifier (DI) Categories
- Annex B Annotated Listing Of Assigned Data Identifier (DI) Categories
- Annex C Data Identifier (DI) Application Notes
- Annex D ANS X12.3 Data Element Number 355 Unit of Measure Code
- Annex E ANS X12.3 Data Element Number 374 Date/Time Codes
- Annex F ANS X12.3 Data Element Numbers 208 & 209 Hazardous Material Codes
- Annex G ISO 4217 Unit of Value Currencies and Funds
- Annex H ISO 3166-1:1997 Country Code
- Annex I Data Identifier and Application Identifier Request Forms
- Annex J User Guidance

At the time of approval, the MH10 committee consisted of the following members:

AIM Global American Trucking Associations American Wood Packaging Association APA - The Engineered Wood Association Assoc. of Professional Material Handling Consultants Association of American Railroads ASTM Automotive Industry Action Group **CompTIA** Containerization & Intermodal Institute, Inc. **Electronics Industries Association** Fibre Box Association Flexible Intermediate Bulk Containers Association **Glass Packaging Institute Graphic Communications Association** GS1 Integrated Business Communications Alliance

Institute of Packaging Professionals Intermec Technologies International Cargo Handling Coordination Association International Safe Transit Association Material Handling Industry of America Material Handling Management Society National American Wholesale Grocer's Association National Wooden Pallet & Container Association Rack Manufacturers Institute Soap & Detergent Association **Steel Shipping Container Institute** Textile Bag Manufacturers Association U.S. Dept. of Agriculture U.S. Dept. of Defense U.S. Forest Products Laboratory Uniform Code Council Virginia Tech

Data Identifier Maintenance Committee

ANSI MH10.8.2 is a reference standard to ISO/IEC 15418 (GS1 Application Identifiers and MH 10/SC 8 Data Identifiers). As such a Data Identifier Maintenance Committee was established representing diverse interests from various countries. Data Identifier Maintenance Committee Members are:

Craig K. Harmon, Q.E.D. Systems, Chair Carl Kirk, American Trucking Associations (ATA) Morris Brown, Automotive Industry Action Group (AIAG) Akira Shibata, Denso, SC 31 Committee of Japan Bert Moore, IDAT Consulting Allan B. Gilligan Erich Guenter, IBM (Germany) & EDIFICE Heinrich Oehlmann, Eurodata Council, DIN John Wells, IPC Technology, UPU Mark Reboulet, United States Air Force, DoD

DOCUMENT MAINTENANCE SUMMARY

This document has had the following changes since the approval of ANS MH10.8.2, on October 9, 2006. The most recent Document Maintenance Summary may always be found at: http://www.autoid.org/ANSI_MH10_SC8/MH10.8.2_MaintenanceSummary.html

Date	Action	Summary

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Data Identifier and Application Identifier Standard

1. Scope

This standard provides a comprehensive dictionary of MH 10/SC 8 Data Identifiers and GS1 Application Identifiers, provides for the assignment of new Data Identifiers, as required, and provides a document detailing the correlation, or mapping, of Data Identifiers to Application Identifiers, where a correlation exists.

This standard does not supersede or replace any applicable safety or regulatory marking or labeling requirements. The standard is to be applied in addition to any other mandated labeling requirements.

2. Normative References

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO/IEC 646	Information technology ISO 7-bit coded character set for information interchange
ISO 3166-1	Codes for the representation of names of countries and their subdivisions, Part 1: Country Codes
ISO 4217	Codes for the representation of currencies and funds
ISO/IEC 15418	Information technology – Automatic identification and data capture techniques – GS1 Application Identifiers and ASC MH 10 Data Identifiers
ISO/IEC 15424	Information technology – Automatic identification and data capture techniques – Data carrier/Symbology identifiers
ISO/IEC 15459-1	Automatic Identification and Data Capture Techniques – Information technology – Unique identifiers for item management – Part 1: Unique identification of transport units
ISO/IEC 15459-2	Automatic Identification and Data Capture Technologies – Information technology – Unique identifiers for item management – Part 2: Registration procedures
ISO/IEC 19762	Information Technology, AIDC Techniques — Harmonized Vocabulary
UN/EDIFACT Code List 8053	United Nations Directories for Electronic Data Interchange for Administration, Commerce and Transport – Equipment Type Qualifier
UN/EDIFACT Code List 3035	United Nations Directories for Electronic Data Interchange for Administration, Commerce and Transport – Party Function Qualifier
UPU Standard M82-3	Universal Postal Union – Attribute Definitions
ANS X12.3	Electronic Data Interchange Data Element Dictionary, Version 004000
ANS HIBC 2	Health Industry Supplier Labeler Standard
IEEE 802.11	IEEE Standard for Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications
GS1 General Specifications	GS1 General Specifications
GR-485-CORE	COMMON LANGUAGE® Equipment Codes (CLEI™ Codes) - Generic Requirements for Processes and Guidelines

3. Terms and Definitions

For the purposes of this document, the terms and definitions given in ISO/IEC 19762 and the following apply.

3.1 "+ " (plus sign)

The "+" is used with specific Data Identifiers defined within this document (e.g. 14K and 3W) to separate different types of data that are encoded within a single field (e.g., a single bar code symbol). The "+" is also referenced as a flag character used by the HIBCC. The "+" may also be used to concatenate multiple data fields using Data Identifiers.

3.2 actual weight

The weight as measured. Also see "Theoretical Weight".

3.3 allocated

Set aside for a specific purpose, such as a set of Data Identifiers allocated for a specific Category.

3.4 alphanumeric code

A code containing both numbers (0-9) and alphabetic characters (A-Z).

3.5 Application Identifier

A GS1 specified character (or string of characters) that defines the general category or intended use of the data that follows.

3.6 assigned

Designated for a specific purpose, such as a given Data Identifier assigned for a specific purpose (e.g., "Container Type" has been assigned the Data Identifier "B".)

3.7 authorized retail industry format

A coding structure assigned by the GS1.

3.8 bill of lading

An itemized list of goods contained in a shipment.

3.9 budget responsibility

Accountability for the planning and reporting of resource expenditures.

3.10 carrier

In a transaction, the party that provides transportation services (e.g., air, boat, rail, truck, etc.)

3.11 category

A class or division in a scheme of classification (e.g., the Category for dating formats is Category 4: Date.)

3.12 cell

A discrete system that performs a predetermined series of operations in the manufacture or assembly of an item.

3.13 character

A letter, digit or special character (e.g., -, +, /, \$) that is used to represent data.

3.14 closed system

A system in which a single authority has control over all elements (e.g., data content, bar code printing, bar code scanners). Opposite of "Open System."

3.15 code

A structured set of characters used to represent an entity, event, person, or organization. For example: 01, 02,...,12 may be used to represent the months January, February,..., December.

3.16 common carrier

A transportation business that offers service to the general public. Also see "Carrier."

3.17 concatenate

The combination of specific pieces of data into a single field. In this document variable length data is separated by a plus "+" symbol (e.g. 3W and 14K). Application standards may define additional uses for a concatenation character.

3.18 container

Something that encloses or can enclose one or more items (e.g., box, crate, can, jar, etc.)

3.19 container security seal

A pre-numbered device designed to secure a container to preclude its being opened without detection (e.g., doors of a truck trailer).

3.20 customer

In a transaction, the party that receives, buys, or consumes an item or service.

3.21 Data Identifier (DI)

A specified character (or string of characters) that defines the general category or intended use of the data that follows. (Note: ASC MH10 Data Identifiers have a format of one alphabetic character alone, or one alphabetic character prefixed by one, two or three numeric characters.)

3.22 digit

Any of the numeric characters 0 (zero) through 9 (nine), inclusive.

3.23 DUNS Number

A nine-digit site-specific trading partner identification code assigned by Dun & Bradstreet

3.24 e.g.

(L. exempli gratia) for example.

3.25 electronic data interchange (EDI)

The electronic exchange of structured information between locations over a telecommunications network. Usually refers to business transactions transmitted from one computer application to another computer application.

3.26 employee

One whose labor or services are engaged by another, either for pay or on a volunteer basis.

3.27 entity

In this document, any person, place or thing that can be distinctly identified from other identical or like persons, places, or things. A subset of "Item".

3.28 exclusive assignment

A Data Identifier whose prior use by a single specific agency, under a previously existing standard, is recognized by ANSI MH10.8.2 and whose use is defined within these Guidelines as the sole province of that agency.

3.29 first level...fifth level

Used to provide additional or different levels of information about a class of items or entities within a category (such as "L," "P," or "T") about the same entity. See Annex C.4.2, C.5, and C.8, respectively, for examples.

3.30 fixed asset

A durable or non-consumable item owned by a company or agency.

3.31 flag character

A character that is used to signify that the data, which follows, conforms to a specific industry standard. Note that these standards do not conform to the overall ANSI MH10.8.2 DAI Standard. See Category 0.

3.32 i.e.

(L. *id est*) that is (to say).

3.33 item

A member of a class of entities or services that may be grouped together because of certain likeness or common traits (e.g., a part or a service). Also see "Entity".

3.34 item code

A code identifying an item.

3.35 license plate

A code assigned to a transport unit by its issuer, in accordance with ISO/IEC 15459-1, *Technical Standard for unique identification of transport units*. Any license plate issuer shall be authorized by an issuing agency in accordance with the rules set up by that agency and ISO/IEC 15459-2, *Procedural Standard for unique identification of transport units*. Issuing agencies are authorized and registered by the Registration Authority.

A license plate number:

- a) shall start with a string of characters, the issuing agency code (IAC), assigned to the issuing agency by the Registration Authority;
- b) shall conform to a format specified by the issuing agency;
- c) shall be unique in the sense that no issuer re-issues a number until a sufficient period of time has passed so that the first number has ceased to be of significance to any user responsible to the Issuing Agency;
- d) shall contain only numeric and upper case alphabetic characters drawn from ISO 646 (not including lower case characters or punctuation marks);
- e) shall not contain more than 35 characters;

3.36 manufacturer

Actual producer/fabricator of an entity not necessarily the supplier in a transaction. Manufacturer's ID code is a property of an entity, not of a transaction. See "Supplier" for transaction.

3.37 mutually defined code

A code that's meaning has been agreed upon by all appropriate parties to the transaction.

3.38 n/e

No equivalent Data Identifier for Application Identifier or no equivalent Application Identifier for Data Identifier.

3.39 number

A set of characters that refer to a code structure, not restricted to numeric digits. In this document the term "number" is used synonymously with the term "code". Also see "numeric code".

3.40 numeric code

A code that contains only the digits 0 (zero) through 9 (nine).

3.41 open system

A system that conforms to established standards and therefore can be readily connected to other systems that comply with the same standard. Opposite of "Closed System".

3.42 operation

A process or action that is part of a series in some work. The process whereby a work piece is changed from one state to some other state.

3.43 operation code

A code used to identify the type of work performed.

3.44 operation sequence number

A number that defines the order of a particular operation in a series of operations, generally in a manufacturing or assembly process.

3.45 order

A request or commission to make or provide an item or service (e.g., purchase order, shop order, customer order, work order).

3.46 package ID

A code that provides the ability to differentiate one package from any other package (e.g., carton or label serial number). Also see "Serial Number" and "License Plate"

3.47 packaging

The container, wrapping, etc. (generally considered to be disposable), in which a commodity is packed for sale or transport. That which provides protection and containment of items plus ease of handling by manual or mechanical means.

3.48 PRO number (PRO #)

The unique number assigned by a motor freight carrier and placed on a freight bill for internal billing purposes. The PRO (PROgressive) number is usually the freight bill (invoice) number. May also be affixed to a container (or containers) in a shipment for tracking purposes.

3.49 reserved

A category or Data Identifier that is being held for future use by the committee controlling this document.

3.50 returnable container

A container that, after having been used to enclose or transport items, is returned to the supplier or owner.

3.51 route code

As employed in DI "6L" - Data element #1 of the TDCC/ANSI Trade Elements Data Dictionary. Route Code may have up to 13 characters.

3.52 serial number

A unique code assigned to an item that provides for the differentiation of that item from any other like item. Within these guidelines *serial number* takes on two meanings. The first meaning is a code assigned to an individual entity for the life of the product such as a computer serial number. The second meaning is a code assigned to a package, usually contained on the package label, which uniquely identifies that package from any other package.

3.53 status code

A code that represents a condition or situation.

3.54 supplier

In a transaction, the party that produces, provides, or furnishes an item or service, other than transportation services. Also see "Carrier" and "Manufacturer".

3.55 theoretical weight

Weight as calculated. Also see "Actual Weight".

3.56 tool ID code

A code that uniquely identifies a particular implement required by a person or machine to perform a task.

3.57 traceability number

A number assigned by a controlling authority to provide unique identification to an entity or group of entities for subsequent tracking and/or identification.

3.58 transaction

An exchange conducted, performed or carried out between two (or more) parties that accomplishes a particular action or result.

3.59 VMRS

Vehicle Maintenance Reporting Standard is an established standard used to identify and track vehicle repair parts, primarily in the transportation industry, having cross-industry (and international) application for any company that maintains a fleet of vehicles.

3.60 waybill

A document prepared by the carrier of a shipment of goods that contains details of the shipment, route, and charges.

3.61 work order number

An identifying number associated with the process, or authorization of, the manufacture or assembly of an item.

SECTION I DATA IDENTIFIERS (DIs)

DEFINED CATEGORIES

Editor's Note: The usage of the term "number" below is not intended to be restricted to numeric characters only, but to generically refer to a code structure which may contain numeric and/or alphabetic data. The following Data Identifiers are assigned to the usages described. The usage of any alphabetic, numeric, or special character in a leading position (as a "Data Identifier or Application Identifier") not defined herein is reserved for future assignment by the body controlling these guidelines. Unless otherwise specified leading zeroes (0's) are non-significant and not to be employed (e.g., 0A, 00A, 00A, 01A, 011A). References to other ANSI Standards are to the most current version of that standard.

CATEGORY 0: Allocation:	Special Characters Not Assigned or Controlled by ANSI/MH10.8 ^{Note2} The usage of any alphabetic, numeric, or special character in a leading position (as a "Data Identifier or Application Identifier") not defined herein is reserved for future assignment by the body controlling these guidelines. All Non-Alphanumeric Characters	
Assigned:	+ - & = / FNC1	Health Industry Business Communications Council (HIBCC) Reserved American Association of Blood Banks (AABB) International Society for Blood Transfusion (ISBT) Graphic Communications Industry Bar Code Council (GIBC) Appears in the first position following the symbology start character of a Code 128, Code 49, or Code 16K Symbol to signify a GS1-controlled symbol
CATEGORY 1: Allocation: Assigned:	Reserved A - 999A A - 999A	Reserved

 $^{^2}$ This is not an exhaustive list. It is not advisable to assign special characters in a "closed" system unless an exhaustive search has been accomplished that ensures that the special characters in question will never be confronted on items supplied from outside the closed system.

CATEGORY 2: Allocation:	Container Info B - 999B	rmation
Assigned:	В 1В	Container Type (internally assigned or mutually defined) Returnable container identification code assigned by the container owner or the appropriate regulatory agency (e.g., a metal tub, basket, reel, unit load device (ULD), trailer, tank, or intermodal container) (excludes gas cylinders See "2B")
	2B	Gas Cylinder Container Identification Code assigned by the manufacturer in conformance with U.S. Department of Transportation (D.O.T.) standards
	3B	Motor Freight Transport Equipment Identification Code assigned by the manufacturer in conformance with International Organization for Standardization (ISO) standards
Field Length – an4+an10	4B	Standard Carrier Alpha Code (SCAC) (an4 - dash "-" filled left) and carrier assigned trailer number
Field Length – an35	5B	 Receptacle Asset Number – Consisting of two joined parts: Identification of an organization in accordance with ISO/IEC 15459 and a unique entity identification assigned in accordance with rules established by the issuing agency A unique serial number assigned by the entity, ending with a 3-character container type code taken from EDIFACT Code List 8053 or UPU standard M82-3. (If the container type code listed is less than three characters in length, the field will be dash "-" filled left to the length of three characters)
Field Length – an2+an11	6B - 999B 7B	Reserved Identification of a returnable container owner assigned in cooperation with BIC, followed by a unique container identification assigned by the container owner, e.g., 8B OC EI CSN CD, where the OC is the owner code assigned in cooperation with BIC, the CSN is unique container identification assigned by the equipment owner, and CD is a modulus 11 check digit calculated in accordance with Annex A, ISO 6346.
Field Length – an2+an3	8B	Identification of a returnable container owner assigned in cooperation with BIC
Field Length – an3+an4	9B 10B	Container Type as defined in ISO 6346 Container Ownership Code. Actual four-character abbreviation marked on the container by the owner. For DOD owned containers see Defense Transportation Regulation App EE-6
	11B 12B 13B	Van Number (complete number minus check digit) Check digit of Van Number identified in 11B Container Number Code (last 5 digits of number not counting check digit)
Field Length – an3+an35	14B – 24B 25B	Reserved Identification of a party to a transaction as identified in 18V, followed by the supplier assigned serial number to a returnable transport item (RTI)
	26B – 999B	

CATEGORY 3: Allocation:	Field Continuation C - 999C		
Assigned:	C - 999C	Continuation of an Item Code (Category 16) assigned by Customer that is too long for a required field size	
	1C	Continuation of Traceability Code (Category 20) assigned by Supplier	
	2C	Continuation of Serial Number (Category 19) assigned by Supplier	
	3C	Continuation of Free Text (Category 26) mutually defined between	
	4C	Supplier/Carrier/Customer Continuation of Transaction Reference (Category 11) mutually defined	
		between Supplier/Carrier/Customer	
	5C	Continuation of Item Code (Category 16) Assigned by Supplier	
	6C - 999C	Reserved	
CATEGORY 4:	Date		
Allocation:	D - 999D		
Assigned:	D	Format YYMMDD Note 3	
Field Length - n6			
Field Length - n6	1D	Format DDMMYY Note 2	
Field Length - n6	2D	Format MMDDYY Note 2	
Field Length - n4	3D	Format YDDD (Julian) Note 2	
Field Length - n5	4D	Format YYDDD (Julian) Note 2	
Field Length -	5D	ISO format YYMMDD immediately followed by an ANSI X12.3 Data	
n6+an3		Element Number 374 Qualifier providing a code specifying type of date	
Field Length -	6D	(e.g., ship date, manufacture date) ISO format YYYYMMDD immediately followed by an ANSI X12.3 Data	
n8+an3	00	Element Number 374 Qualifier providing a code specifying type of date	
norano		(e.g., ship date, manufacture date)	
Field Length - n4	7D	Format MMYY Note 2	
0	8D	Reserved	
	9D	Date (structure and significance mutually defined)	
Field Length - n4	10D	Format YYWW Note 2	
Field Length - n6	11D	Format YYYYWW Note 2	
Field Length - n8	12D	Format YYYYMMDD Note 2	
Field Length - n8	13D	Oldest and Newest Manufacturing Date in the format YYWWYYWW	
Field Length - n8	14D	Expiration Date (YYYYMMDD)	
Field Length - n8	15D	Expiration Date (DDMMYYYY)	
Field Length - n8	16D 17D	Production Date (YYYYMMDD) Production Date (DDMMYYYY)	
Field Length - n8	17D 18D – 19D	Production Date (DDMMYYYY) Reserved	
	20D	Inspection Date (DDMMMYYYY)	
	20D 21D	Required Delivery Date (DDD Julian) or DOD MILSTAMP Code	
	22D	Record Date Time Stamp (YYYYMMDDTTTT) where T equals hour	
		and minutes	

³ Mutually Defined Significance

	23D	yyyy[mm[dd[hh[mm[ss optionality and yyyy is the time of day in hour sections and poooo the minutes, the offset bei minus sign (-). EXAMPLE: 2005	(UTC) calendar year 2005
		200505 20050518 200505181247 200505181247.0100	(UTC) calendar month May 2005 (UTC) 18 May 2005 12:47 UTC on 18 May 2005 12:47 local time, being 11:47 UTC, on
	245	20050518124723099 May 2005	18 May 2005 99 milliseconds after UTC 12:47:23 on 18
	24D 25D – 999D	 an ISO/IEC 15459 i a date qualifier conf agency; a date whose formation 	sing the concatenation of: ssuing agency code; forming to the specifications of that issuing at and interpretation comply with the s issuing agency for that date qualifier
CATEGORY 5:	Environmental I	actors	
Allocation: Field Length – a.2	E - 999E E	Code" including Lead- JESD97 (IPC JEDEC	Classification – "Environmental Classification Free (Pb-Free) finish categories defined in J-STD-609), and future industry or governmental is related to environmental regulatory dous material content
	1E	Air pressure – (altitude international measure	e) expressed in Pascal's as the standard
	2E – 9E 10E	Reserved Cumulative Time Tem measurements or cour	perature index – expressed as the number of nts
	11E	Time Temperature Ind number of measureme	ex – Next Higher Assembly – expressed as the
Assigned:	12E – 999E	Reserved	
CATEGORY 6: Allocation: Assigned:	Looping F - 999F F 1F – 999F	Looping Header as de Reserved	fined as Section VI of this document
CATEGORY 7: Allocation: Assigned:	Reserved G - 999G G - 999G	Reserved	
CATEGORY 8:	Human Resourc	es	
Allocation: Assigned:	H - 999H H 1H		n Code assigned by employer
Field Length - n9	2H	U.S. Social Security N	umper

Field Length – an2	3H 4H 5H 6H – 9H 10H 11H 12H 13H – 999H	ID Number for non-employee (internally assigned or mutually defined) (e.g., contract workers, vendors, service, and delivery personnel) National Social Security Number Last Name Reserved Personal Identification Code (first initial, Last initial, last four of SSN) First name and middle initial Military Grade (E1-E9, W1-W5, and O1-O10) Reserved
CATEGORY 9: Allocation: Assigned:	Reserved I - 999I I 1I 2I 3I - 999I	Exclusive Assignment (U.S. Vehicle Identification Number - VIN) Reserved Abbreviated VIN Code Reserved - Not recommended for use due to similarity of "1" to "I"
CATEGORY 10: Allocation:	License Plate J - 999J	
Allocation. Assigned: Field Length – an35	J 2 - 9992	Unique license plate number ^{Note 4}
Field Length – an35	1J	Unique license plate number* assigned to a transport unit which is the lowest level of packaging, the unbreakable unit
Field Length – an35	2J	Unique license plate number* assigned to a transport unit which contains multiple packages
Field Length – an35	3J	Unique license plate number* assigned to a transport unit which is the lowest level of packaging, the unbreakable unit and which has EDI data associated with the unit
Field Length – an35	4J	Unique license plate number* assigned to a transport unit which contains multiple packages and which is associated with EDI data
Field Length – an20	5J	Unique license plate number* assigned to a mixed transport unit containing unlike items on a single customer transaction and may or may not have associated EDI data.
Field Length – an20	6J	Unique license plat number* assigned to a master transport unit containing like items on a single customer transaction and may or may not have associated EDI data.
	7J	Vehicle Registration License Plate Number (not unique without
	8J – 999J	identification of country and issuing governmental region/authority) ⁵ Reserved

⁴ For a license plate number to be unique world wide requires: 1) A unique number assigned by the trading partner, 2) A unique code assigned to the trading partner by an organization, and 3) A unique code providing global identification of the assigning organization. ISO/IEC 15459-1:1999 describes the format and usage of these Data Identifiers.

⁵ The format of "7J" is such that while a Vehicle Registration License Plate Number may, in practice, be unique within a governmental subdivision, it may not be unique worldwide without having met the requirements of items 2 and 3 of Note 3, above.

CATEGORY 11: Transaction Reference Used In Trading Relationships Allocation: K - 999K		Reference Used In Trading Relationships
Assigned:	К	Order number assigned by Customer to identify a Purchasing
		Transaction (e.g., purchase order number)
	1K	Order number assigned by Supplier to identify a Purchasing
		Transaction
	2K	Bill of Lading/Waybill/Shipment Identification Code assigned by
	3K	Supplier/Shipper Bill of Lading/Waybill/Shipment Identification Code assigned by
		Carrier
	4K	Line number of the order assigned by Customer to identify a
		Purchasing Transaction (See Annex C.9)
	5K	Reference number assigned by the Customer to identify a Shipment
		Authorization (Release) against an established Purchase Order
	6K	PRO# Assigned by Carrier
	7K	Carrier Mode in Free Text format mutually defined between
		Customer and Supplier (e.g., Air, Truck, Boat, Rail)
	8K	Contract Number
	9K	Generic Transaction Reference Code (internally assigned or
		mutually defined)
	10K	Invoice Number
	11K	Packing List Number
Field Length - an4	12K	SCAC (Standard Carrier Alpha Code) (an4 - dash "-" filled left) and
		carrier assigned PROgressive number
	13K	Reserved
	14K	Combined Order Number and Line Number in the format
		nnnn+nnn where a plus symbol (+) is used as a delimiter
		between the Order Number and Line Number
	15K	KANBAN Number
	16K	DELINS Number: code assigned to identify a document which
		contains delivery information
	17K	Check Number
	18K	Structured Reference (See Annex C.10)
	19K	Foreign Military Sales Case Number
	20K	License identifier, being a globally unique identifier for a license or
		contract under which items are generated, submitted for processing
		and/or paid for, that is constructed by concatenating:
		 — an ISO/IEC 15459 issuing agency code;
		 a license or contract number which accords with specifications of
		the issuing agency concerned;
		and that:
		 — comprises only upper case alphabetic and/or numeric characters;
		 is unique (that is, is distinct from any other ISO/IEC 15459 compliant identifier) within the domain of the issuing agency⁶;
		— cannot be derived from any other ISO/IEC 15459 compliant
		identifier, issued under the same issuing agency, by the simple
		addition of characters to, or their removal from, its end ⁶ .
	2412	
	21K	Customer data, being data that:
		 from a customer perspective, is related to or associated with an

⁶ 20K license identifiers, 26S equipment identifiers and, subject to certain conditions, 18V party identifiers can be used as the root component of 26T batch identifiers and of ISO/IEC 15459 transport unit identifiers. To ensure uniqueness of the latter, it is essential that such identifiers differ not only from all other identifiers of the same class, but also from all other identifiers of other classes. That is, the specifications of the issuing agency concerned are required to ensure that a 20K license identifier is distinct <u>both</u> from other 20K license identifiers and from 26S equipment identifiers, 18V party identifiers, license plates, etc. Since component-based transport unit identifiers are constructed by simple concatenation, it is <u>also</u> required that one root component cannot be derived from another by adding characters to it.

		item or transaction, or to a batch or related items or transactions, and
		comprises up to 35 printable characters and/or spaces, other than
	22K	plus (+), drawn from the character set defined in ISO/IEC 646. "22K" Transaction authentication information, being a value,
	221	constructed by concatenating:
		— an ISO/IEC 15459 issuing agency code;
		— a value which accords with specifications of the issuing agency
		concerned,
		that allows verification of the authenticity of the transaction
		concerned and, in particular, that the transaction was initiated by the
		party, claimed within the transaction to have been its initiator, by:
		— the recipient of a transaction, and/or
		 — one or more of the parties involved in its handling or processing, and/or
		— a trusted third party.
	23K – 999K	Reserved
CATEGORY 12:	Location Refer	ence
Allocation:	L - 999L	
Assigned:	L	Storage Location
-	1L	Location
	2L	"Ship To:" Location code defined by an industry standard or mutually
	0 1	defined
	3L	"Ship From:" Location code defined by an industry standard or
	4L	mutually defined Country of Origin, two-character ISO 3166 country code. <i>With</i>
	+L	agreement of trading partners and when the Country of Origin is mixed, Country Code "AA" shall be used.
	5L	"Ship For:" Location code defined by an industry standard or
		mutually defined
	6L	Route Code assigned by the supplier to designate a specific
		transportation path
Field Length - n6	7L	6-digit Department of Defense Activity Code (DoDAAC)
	8L 9L	Port of Embarkation – Mutually defined Port of Debarkation – Mutually defined
	3L 10L – 19L	Reserved
The following DIs can b Location Reference pro		for Location identification, which is different than or in addition to
	20L	First Level (internally assigned)
	21L 22L	Second Level (internally assigned)
	22L 23L	Third Level (internally assigned Fourth Level (internally assigned)
	24L	Fifth Level (internally assigned)
Field Length – an35	25L	Identification of a party to a transaction as identified in 18V, followed
		by an internal physical location of and assigned by the party identified in 18V, e.g., 25L IAC CIN LOC, where the IAC is the
		issuing agency code assigned by the ISO 15459-2 Registration
		Authority, the CIN is the company identification code assigned by the
		IAC, and the LOC is the physical internal location assigned by the
	261	CIN. "261 " Leastian code, being a code identifying a location or
	26L	"26L" Location code, being a code identifying a location or geographic area, or an associated group of such locations or areas,
		that has relevance to a related transaction and that complies with
		one or the structures defined in (g) to (l) below:

	 g) two upper case alphabetic character corresponding to the ISO 3166-1 two alpha country code of the country in which, or consisting of which, the location(s) or area(s) are situated;
	 h) three upper case alphabetic characters corresponding to the IATA code of the airport or city in, close to, or consisting of which the location(s) or area(s) are situated;
	i) four or more characters of which the first three correspond to an ISO 3166-1 country code followed by a dash (-), with the
	 balance being a postcode in the country concerned; four or more characters of which the first three correspond to an ISO 3166-1 country code followed by a dot (.), with the balance being an ISO 3166-2 country subdivision code in the country concerned;
	 k) five upper case alphabetic characters corresponding to the UN/LOCODE of the area in, close to, or consisting of which, the location(s) or area(s) are situated;
	 the concatenation, being not less than seven or more than 35 characters in length, of:
	 — an ISO/IEC 15459 issuing agency code;
	 a location code, consisting of characters drawn form the set {A-Z; 0-9} which accords with specifications of the issuing agency concerned.
27L – 50L	Reserved
	e used for shipments within the jurisdiction of a single postal authority.
51L	"Ship From:" - Location code defined by a postal authority (e.g., 5-
SIE	digit and 9-digit ZIP codes identifying U.S. locations or 6-character
	postal codes identifying Canadian locations)
52L	"Ship To:" - Location code defined by a postal authority (e.g., 5-digit
JZL	and 9-digit ZIP codes identifying U.S. locations or 6-character postal
	codes identifying Canadian locations)
53L	Reserved
55L	Reserveu
The following two Data Identifiers are to be authorities	e used for shipments between locations governed by different postal
54L	"Ship From:" - Location code defined by a postal authority in the format: postal codes (e.g., 5-digit ZIP codes identifying U.S.

54L 55L	"Ship From:" - Location code defined by a postal authority in the format: postal codes (e.g., 5-digit ZIP codes identifying U.S. locations or 6- or 7-character postal codes identifying United Kingdom locations) followed by two character ISO 3166 country code (e.g., US or GB) "Ship To:" - Location code defined by a postal authority in the format:
	postal codes (e.g., 5-digit ZIP codes identifying U.S. locations or 6- or 7-character postal codes identifying United Kingdom locations) followed by two character ISO 3166 country code (e.g., US or GB)
56L - 999L	Reserved

v06a

CATEGORY 13:	Reserved	
Allocation:	M - 999M	
Assigned:	M	Reserved
	1M – 9M	Reserved
	10 M	Army form 2410 data. Format is data value preceded by the block number of the form 2410. Field lengths and acceptable characters
	11 M	can be found at http://www.apd/army.mil/pdffiles/p738_751.pdf
	1 1 171	Army form 2408 data. Format is data value preceded by the block
		number of the form 2408. Field lengths and acceptable characters
	12M	can be found at http://www.apd/army.mil/pdffiles/p738_751.pdf Army form 2407 data. Format is data value preceded by the block
		number of the form 2407. Field lengths and acceptable characters
		can be found at http://www.apd/army.mil/pdffiles/p738_751.pdf
	13M	Air Force Form 95 data. Format is data value preceded by the block
		number of the form 95. Field lengths and acceptable characters can
		be found at http://www.abqbetty.com/Logistics?00-20-5.pdf
	14M	Navy Form 4790 data. Format is data value preceded by the block
		number of the form 2410. Field lengths and acceptable characters
		can be found at http://tpub.com/content/aviation/12324/
	15M – 999M	Reserved
CATEGORY 14:	Industry Assig	ned Codes
Allocation:	N - 999N	
Assigned:	Ν	National/NATO Stock Number (NSN)
Field Length –		
an1315		
	1N	Product Characteristic Data defined by the Chemical Industry Data
		Exchange (CIDX)
	2N	Reserved
	3N	Coding Structure in Accordance with Format Defined by Electronic
		Industries Association Japan (EIAJ)
	4N	Coding Structure and Formats in Accordance with GS1 Application
		Identifiers (AI plus data) (GS1)
	5N	Coding Structure and Formats in Accordance with AIAG
		Recommendations. The full code list can be found at
		http://www.aiag.org/projects/project_list_5n.html
	6N	U.S. DOD Requisition and Issue Procedure Codes. The format is
		the MILSTRIP code the appropriate followed by the data value
		associated with that code. (The full list of codes is available at
		http://www.dla.mil/j6/dlmso/eLibrary/Manuals/MILSTRIP/Reissue200
	71	4/MILSTRIPfileformats.asp in Appendix 2
	7N	U.S. Defense Transportation Regulation codes. The format is the DTR code followed by the appropriate data value associated with
		that code. (The full list of codes is available at
		http://www.transcom.mil/j5/pt/dtr_part_ii.html in appendices Y
		through YY)
	8N	Production animal identification codes. The format is the production
		animal code followed by the appropriate data value associated with
		that code. (The full list of codes is maintained at the website
		http://www.aimglobal.org/)
	9N – 999N	Reserved
CATEGORY 15:	Reserved	
Allocation:	O - 999O	
Assigned:	O - 999O	Not recommended for use due to similarity of "0" (zero) to "O"

CATEGORY 16:	Item Information	
Allocation:	P - 999P	Item Identification Code assigned by Cystemer
Assigned:	P	Item Identification Code assigned by Customer
	1P	Item Identification Code assigned by Supplier
	2P	Code assigned to specify the revision level for an Item (e.g.,
		engineering change level, edition, or revision)
Field Length –	3P	Combined manufacturer identification code/item code under the
n1314		12/13-digit GS1 formats, plus supplemental codes, if any
	4P	Item Code portion of GS1 formats
	5P	Freight Classification Item Number assigned by Carrier for purposes
		of rating hazardous materials (e.g., Motor Freight, Air, Boat, Rail
		Classification)
	6P	Combined supplier identification and item code (internally assigned
		or mutually defined)
	7P	Common Language Equipment Identification (CLEI) assigned by the
		manufacturer to some telecommunications equipment
Field Length – n14	8P	14-digit GS1 format for SCC-14 code structure
5	9P	Combined manufacturer identification code (9-digit DUNS number
		assigned by Dun & Bradstreet) and the item code/part number
		(assigned by the manufacturer).
	10P	Hazardous Material Code as defined by ANSI X12.3 in the format
		Data Element 208 (1-character code qualifier) followed by Data
		Element 209 (Hazardous Material Code)
Field Length – an10	11P	10-character CLEI Code for telecommunications equipment
	12P	Document Type (e.g., Pick List, Design Drawing, etc.) (internally
		assigned or mutually defined)
	13P	VMRS System Code
	14P	VMRS System and Assembly Code
	15P	VMRS System, Assembly, & Part Code
	16P	VMRS System, Assembly, or Part Code (User Modified
	17P	Combined GS1 supplier identification and item code assigned by the
		supplier
	18P	Combined VMRS supplier ID and supplier assigned part number
	19P	Component of an Item (One product contained in multiple packages)
The following five DIs c	an be used to prov	ide for Item identification (Item ID), which is different than or in addition
to Item ID provided by '		
	20P	First Level (Customer Assigned)
	21P	Second Level (Customer Assigned)
	22P	Third Level (Customer Assigned)
	23P	Fourth Level (Customer Assigned
	24P	Fifth Level (Customer Assigned
	25P	Identification of a party to a transaction as identified in 18V, followed
		by the supplier assigned part number.
	26P	Part Number of next higher assembly
	27P – 29P	Reserved
		ide for Item identification (Item ID), which is different than or in addition
to Item ID provided by '	"1P".	
	200	First Loval (Supplier Assigned)

1P".	· · · · · · · · · · · · · · · · · · ·
30P	First Level (Supplier Assigned)
31P	Second Level (Supplier Assigned)
32P	Third Level (Supplier Assigned)
33P	Fourth Level (Supplier Assigned
34P	Fifth Level (Supplier Assigned
35P – 39P	Reserved

	40P 41P - 999P	A code assigned by a customer to the identification number of the manufacturer's Material Safety Data Sheet (MSDS) document that describes the uses, hazards, and chemical composition of a hazardous material. Reserved
CATEGORY 17: Allocation:	Measurement Q - 999Q	
Allocation.		ts are to be used, they should be included within the data.
Assigned:	Q	Quantity, Number of Pieces, or Amount (numeric only) (unit of measure and significance mutually defined
	1Q	Theoretical Length/Weight (numeric only)
	2Q	Actual Weight (numeric only)
an2	3Q	Unit of Measure, as defined by the two character ANSI X12.3 Data Element Number 355 Unit of Measurement Code
	4Q	Gross Amount
	5Q	Net Amount
	6Q	Where multiple containers comprise a single product (the contents of each container must be combined with the content of the other containers to constitute a single product) the Data Identifier "6Q" shall be used to link the various containers. The format # of # ("this is the nth piece of x pieces to define the product") Presented in the format "n/x", where the "/" (slash) is used as a delimiter between two values.
	7Q	Quantity, Amount, or Number of Pieces in the format: Quantity followed by the two character ANSI X12.3 Data Element Number 355 Unit of Measurement Code
	8Q	Reserved
	9Q	Piece Weight: weight of a single item
	10Q	Reserved
	11Q	Tare Weight: weight of an empty container
	12Q	Monetary Value established by the Supplier in the format of: the value followed by an ISO 4217 data element code for representing unit of value of currencies and funds (e.g., 12Q2.50USD) (2.50 Monetary Value in USA Dollars) significance mutually defined
	13Q	# of # ("this is the <i>nth</i> piece of <i>x</i> pieces in this shipment") Presented in the format " n/x ", where the "/" (slash) is used as a delimiter between two values. See Annex C.6.3 for further information
	14Q	Beginning Secondary Quantity
	15Q	Ending Secondary Quantity
	16Q	Number of pieces in Van
	17Q	Number of shipments in van
	18Q	Cube expressed in cubic meters or cubic feet followed by the ANSI X12.3 data element number 355 unit of measure code (CR of CF). No implied decimal point.
	19Q	Width expressed in linear meters or linear feet followed by the ANSI X12.3 data element number 355 unit of measure code (LC or LF). No implied decimal point.
	20Q	Height expressed in linear meters or linear feet followed by the ANSI X12.3 data element number 355 unit of measure code (LC or LF). No implied decimal point.
	21Q	Length expressed in linear meters or linear feet followed by the ANSI X12.3 data element number 355 unit of measure code (LC or LF). No implied decimal point.

	22Q	Net weight of shipment expressed in pounds or kilograms (kilos) followed by the ANSI X12.3 data element number 355 unit of
	23Q	measure (LB or KG). No implied decimal point. Van length expressed in linear meters or linear feet followed by the ANSI X12.3 data element number 355 unit of measure (LC or LF).
	240	No implied decimal point.
	24Q	Inside cube of a van expressed in cubic meters or cubic feet followed by the ANSI X12.3 data element number 355 of unit measure code (CR or CF). No implied decimal point.
	25Q	Net explosive weight (a computed value of explosive equivalent
		expressed in pound of TNT). The measure of NEW is used internationally for explosive safety quantity distance arc
	26Q – 999Q	computations. No implied decimal point. Reserved
CATEGORY 18: Allocation:	Miscellaneous R - 999R	
Allocation. Assigned:	R - 999K	Reserved
, looignou.	1R	Return Authorization Code (RMA) assigned by the Supplier
	2R	Return Code assigned by the Customer
	3R	Reserved
Field Length – an4	4R	U.S. Department of Defense Identification Code (DoDIC)
	5R - 999R	Reserved
CATEGORY 19:		mber for an Entity
Allocation:	S - 999S	
Assigned:	S	Serial number or code assigned by the Supplier to an entity for its
		lifetime, (e.g., computer serial number, traceability number, contract tool identification)
	1S	Additional code assigned by the Supplier to an entity for its lifetime
		(e.g., traceability number, computer serial number)
Field Length –	2S	Advance Shipment Notification (ASN) Shipment ID (SID)
an230		corresponds to ANSI ASC X12 Data Element 396
	3S	Unique Package Identification assigned by Supplier (lowest level of
	4S	packaging which has a package ID code; shall contain like items) Package Identification assigned by Supplier to master packaging
		containing like items on a single customer order (See Annex C.7)
	5S	Package Identification assigned by Supplier to master packaging
	<u></u>	containing unlike items on a single customer order (See Annex C.7)
	6S	Package Identification assigned by Supplier to master packaging containing like items over multiple customer orders (See Annex C.7)
	7S	Package Identification assigned by Supplier to master packaging
		containing unlike items over multiple customer orders (See Annex
		C.7)
Field Length – n18	8S	Supplier ID/Unique Container ID presented in the data format specified by the GS1 SSCC-18
	9S	Package Identification, Generic (mutually defined)
	10S	Machine, cell, or tool ID code
	11S	Fixed asset ID code
	12S	Document Number (internally assigned or mutually defined)
	13S	Container Security Seal
	14S 15S	4th Class Non-identical parcel post manifesting Serial Number Assigned by the Vendor Entity, that can only be used
	150	in conjunction with "13V"
	16S	Version Number, e.g., Software Version

	17S	Combined 6-digit GS1 supplier identification and unique package
		identification assigned by the supplier
Field Length – an5 + an20	18S	CAGE Code & Serial Number unique within CAGE
	19S	Combined Dun & Bradstreet company identification of the supplier followed by a unique package identification assigned by the supplier in the format nnn+nnn where a plus symbol (+) is used as a delimiter between the DUNS Number and unique package identification
	20S	Traceability code for an entity assigned by the customer
	21S	Combined U.S. D.O.T. Tire Manufacturer Plant Code and unique tire identification assigned by the supplier
	22S	Electronic Serial Number for Cellular Mobile Telephones
Field Length – an12	23S	Media Access Control (MAC) Address conforming with IEEE 802.11
-	24S	Reserved
	25S	Identification of a party to a transaction as identified in 18V, followed by the supplier assigned serial number.
	26S	 Equipment identifier, being a globally unique identifier for a device, an item of equipment or instance of a computer application used in the production, transport, processing or other handling of items, that is constructed by concatenating: — an ISO/IEC 15459 issuing agency code; — an equipment number which accords with specifications of the
		issuing agency concerned; and that:
		 comprises only upper case alphabetic and/or numeric characters; is unique (that is, is distinct from any other ISO/IEC 15459 compliant identifier) within the domain of the issuing agency⁶; cannot be from any other ISO/IEC 15459 compliant identifier, issued under the same issuing agency, by the simple addition of characters to, or their removal from, it end⁶.
	27S	 Item number within batch, being a string of numeric digits: — that uniquely distinguishes an item, within an identifiable batch of related items, from all other items in the same batch; — whose length is the same for all items within the batch concerned.
	28S	Batch-and-item number, being the concatenation of a data identifier 27T batch number and the data identifier 27S item number of an item belonging to the batch concerned.
	29S	Reserved
	30S	Additional traceability code for an entity assigned by the supplier in addition to or different from the traceability code(s) provided by "S" o "1S"
	31S	Beginning Serial Number for serial numbers in sequence
	32S	Ending Serial Number for serial numbers in sequence
	33S - 49S	Reserved
The following five DIs of or in addition to identific		ovide for identification of entities within a single unit that is different than by "S".
Field Length – an20	50S	First Level (Supplier Assigned)
Field Length – an20	51S	Second Level (Supplier Assigned)
Field Longth on 20	526	Third Lovel (Supplier Assigned)

Field Length – an20	505	First Level (Supplier Assigned)
Field Length – an20	51S	Second Level (Supplier Assigned)
Field Length – an20	52S	Third Level (Supplier Assigned)
Field Length – an20	53S	Fourth Level (Supplier Assigned
Field Length – an20	54S	Fifth Level (Supplier Assigned
	55S - 95S	Reserved
Field Length – b96	96S	96-bit EPC data structure (EPCglobal)
	97S – 999S	Reserved

CATEGORY 20:	Traceability Number for Groups of Entities		
Allocation:	Т - 999Т		
Assigned:	т	Traceability Number assigned by the Customer to identify/trace a unique group of entities (e.g., lot, batch, heat)	
	1T	Traceability Number assigned by the Supplier to identify/trace a	
	оŦ	unique group of entities (e.g., lot, batch, heat)	
	2T	Reserved	
	3Т	Exclusive Assignment (U.S. EPA vehicle identification for emissions testing)	
	4T - 19T	Reserved	
The following five DIs c	an be used to prov	ride for identification of a group of entities, which is different than or in	
addition to identification			
	20T	First Level (Customer Assigned)	
	21T	Second Level (Customer Assigned)	
	22T	Third Level (Customer Assigned)	
	23T	Fourth Level (Customer Assigned	
	24T	Fifth Level (Customer Assigned	
	25T	Identification of a party to a transaction as identified in 18V, followed	
		by the supplier assigned traceability number.	
	26T	Batch identifier comprising the concatenation of either:	
		— a data identifier 26S mail processing equipment identifier, or	
		— a data identifier 20K license identifier, or	
		— a data identifier 18V party identifier that:	
		— is distinct from any other ISO/IEC 15459 compliant identifier	
		within the domain of the issuing agency concerned ⁶ ;	
		— cannot be derived from another party identifier or any other	
		ISO/IEC 15459 compliant identifier, issued under the same	
		issuing agency, by the simple addition of characters to, or	
		their removal from, its end ⁶ ;	
		with a data identifier 27T batch number, the two being separated by $\frac{1}{2}$	
	07 T	a dash (-) character ⁷ .	
	27T	Batch number, issued under the control of an identified party or unit	
		of processing equipment, or under the provisions of an identified license, that:	
		 uniquely distinguishes one batch of related items from all other 	
		batches to which a batch number is assigned by the party or	
		equipment, or under the license, concerned;	
		- comprises a string of maximum length 10 characters, of which the	
		first (numeric) character indicates the number of following	
		characters, each of which is taken from the set {0-9; A-Z}	
	28T – 29T	Reserved	
The following five Die e	an boused to area	ide for identification of a group of entities, which is different then as in	
The following five DIs can be used to provide for identification of a group of entities, which is different than or in addition to identification provided by "1T".			
	30T	First Level (Supplier Assigned)	

First Level (Supplier Assigned)
Second Level (Supplier Assigned)
Third Level (Supplier Assigned)
Fourth Level (Supplier Assigned)
Fifth Level (Supplier Assigned)
Reserved

⁷ Note that the dash character cannot occur in either of the two components and can thus be used to support decomposition of the batch identifier into these components. A transport unit identifier constructed from the same two components and a "27S" item number contains no such separator and cannot be decomposed.

CATEGORY 21:	UPU/MH 10/SC8/WG2 Agreed Upon Codes		
Allocation: Assigned:	U - 999U		
	U-4U	Reserved	
	5U	Specification of a postal service and associated process data in	
	6U	accordance with UPU standard S25 data construct "Service Data" Licensing post data, in accordance with the specification in UPU	
	60	standard S25.	
	7U – 14U	Reserved for Assignment for UPU needs in collaboration with ASC	
		MH10/SC 8/WG 2	
	15U	Specification of supplementary postal service and associated	
		process data in accordance with UPU standard S25 data construct	
		"Supplementary Service Data".	
	16U	Postal administration identifications, being the identification,	
		expressed in accordance with the specification in UPU standard S25,	
		of one or more postal administrations involved in the processing of a	
	17U	mail item or batch.	
	170	UPU location code, being a code identifying a location or geographic area, or an associated group of such locations or areas, that has	
		relevance to a related transaction and that complies with one of the	
		structures defined in a) to g) below:	
		a) two upper case alphabetic characters corresponding to the ISO	
		3166-1 two alpha country code of the country in which, or	
		consisting of which, the location(s) or area(s) are situated;	
		b) three upper case alphabetic characters corresponding to the	
		IATA code of the airport or city in, close to, or consisting of which	
		the location(s) or area(s) are situated;	
		 c) four or more characters of which the first three correspond to an ISO 3166-1 country code followed by a dash (-), with the balance 	
		being a postcode in the country concerned;	
		d) four or more characters of which the first three correspond to an	
		ISO 3166-1 country code followed by a dot (.), with the balance	
		being an ISO 3166-2 country subdivision code in the country	
		concerned;	
		e) five upper case alphabetic characters corresponding to the	
		UN/LOCODE of the area in, close to, or consisting of which, the	
		location(s) or area(s) are situated;	
		 f) six upper case alphanumeric characters corresponding to a UPU IMPC code allocated in accordance with UPU standard S34; 	
		g) the concatenation, being not less than seven nor more than 25	
		characters in length, of:	
		— an issuer code allocated in accordance with UPU standards	
		S31;	
		 a location code, consisting of characters drawn from the set 	
		{A-Z; 0-9} which accords with specifications of the issuer	
	4011	concerned.	
	18U	Qualified UPU location code, concatenation of:	
		— a location category drawn from UPU code list 139;	
	19U	— a data identifier 17U UPU location code	
	190	License plate with service data and location code is a compound data construct, compliant with the specification in UPU standard S25,	
		which includes specification of:	
		— an ISO/IEC 15459-compliant item identifier;	
		— a data identifier 5U compliant specification of the service to be	
		provided in respect of the item;	
		— a data identifier 17U compliant UPU location code or a data	

identifier 18U compliant qualified UPU location code.

		Note: For further details, please refer to UPU standard S25. The distinction between a simple UPU location code (DI 17U) and a qualified UPU location code (DI 18U) can
		be determined from the first character. If this is numeric, 18U applies; if it is
	20U – 54U	alphabetic, 17U applies. Reserved for Assignment for UPU needs in collaboration with ASC MH 10/SC 8/WG 2
	55U	OCR Data Locator
	56U - 999U	Reserved
CATEGORY 22: Allocation:	Party To The Tr V - 999V	ransaction
Assigned:	V	Supplier Code assigned by Customer
	1V	Supplier Code assigned by Supplier
Field Length – n6	2V	6-digit Company Code as assigned by the GS1 US
	3V	Fabricator Code as assigned by the appropriate GS1 authority
	4V	Carrier Identification Code assigned by an industry standard mutually defined by the Supplier, Carrier, and Customer
	5V	Financial Institution Identification Code (mutually defined)
	6V	Manufacturer's identification code (mutually defined
	7V	Code assigned to a party which has financial liability for an entity or
		group of entities (e.g., owner of inventory) (mutually defined)
	8V	Customer code assigned by the customer
	9V	Customer code assigned by the supplier
	10V	Reserved
	11V	Organization with budget responsibility for an entity, process, or
		procedure (e.g., shop, division, department)(internally assigned)
Field Length – n913	12V	DUNS number identifying manufacturer
Field Length – n913	13V	DUNS number identifying supplier
Field Length – n913	14V 15V	DUNS number identifying customer
	16V	Carrier-assigned shipper number VMRS Supplier ID
Field Length – an6	17V	U.S. DoD CAGE Code
riola Longin and	18V	Identification of a party to a transaction in which the data format
		consists of two concatenated segments. The first segment is the
		unique code assigned to an issuing agency by NNI in accordance
		with ISO/IEC 15459, the second segment is a unique entity
		identification assigned in accordance with rules established by the
		issuing agency (see http://www.nen.nl/nl/pro/line-
		/ISOIEC15459_and_EN1572_guide.html)
	19V	Specification of a party's role(s), in a transaction, consisting of one or
		more code values from EDIFACT Code List 3035 "Party Qualifier",
		separated by plus (+) characters (Never to be concatenated with
		other DIs in a linear symbol or other media where the concatenation
	20V	character is a plus (+) character)
	201	Identification of a party to a transaction as identified in 18V, followed by a plus (+) character followed by one or more code values from
		EDIFACT Code List 3035 "Party Qualifier", separated by plus (+)
		characters (Never to be concatenated with other DIs in a linear
		symbol or other media where the concatenation character is a plus
		(+) character)
		()

Field Length – an35	21V 22V – 999V	Identification of a party to a transaction as identified in 18V, followed by the organizational sub-unit of and assigned by the party identified in 18V, e.g., 21V IAC CIN OSU, where the IAC is the issuing agency code assigned by the ISO 15459-2 Registration Authority, the CIN is the company identification code assigned by the IAC, and the OSU is the organizational sub-unit identification assigned by the CIN. Reserved
CATEGORY 23:	Activity Refere	nco
Allocation:	W - 999W	
Allocation: Assigned:	W - 333W W	Work Order Number (e.g., "Production Paper") (internally assigned)
Assigned.	1W	Operation Sequence Number
	2W	Operation Code/Work Code - the type of work to be performed (internally assigned or mutually defined)
	3W	Combined Work Order Number and Operation Sequence Number in the format nnn+nnn where a plus symbol (+) is used as a delimiter between the Work Order Number and the Operation Sequence Number
	4W	Status Code (internally assigned or mutually defined)
	5W	Work Unit Code – identifies system, subsystem, assembly, component etc. on which maintenance is performed
	6W	Nomenclature – (internally assigned or mutually defined)
	7W – 9W	Reserved
	10W	Form Control Number – Preprinted control number on forms
	11W	Quality Assurance Inspector – Last Name
	12W	Telephone number of the person/activity completing the form –
	1200	expressed in the format (country code) city or area code plus local number i.e. (1) 319 555 1212
	13W – 999W	Reserved
CATEGORY 24:	Reserved	
Allocation:	X - 999X	
Assigned:	X - 999X	Reserved
CATEGORY 25:	Internal Applic	ations
Allocation:	Y - 999Y	Never te enneer en item /deeumentuukiek leeuwee e eleeed eustem
Assigned:	Y - 999Y	Never to appear on item/document which leaves a closed system environment
CATEGORY 26:	Mutually Define	ed
Allocation:	Z - 999Z	
Assigned:	Z	Mutually Defined between Customer and Supplier
-	1Z	Mutually Defined between Carrier and Supplier
	2Z	Mutually Defined between Customer and Carrier
	3Z	Free Text
	4Z	Mutually Defined between Carrier and Trading Partner
	5Z - 9Z	Reserved
	10Z	Structured Free Text (Header Data)
	11Z - 99Z	Structured Free Text (Line 1-89 Data)
	100Z - 999Z	Reserved

100Z-999Z Reserved

SECTION II GS1 APPLICATION IDENTIFIERS (Als)

The AIs listed in Section II of this standard represent the assignments made through December 2005. Those wishing further information should contact the GS1 for the current list of AI assignments and relevant standards. Those requesting new AI assignments should use the GS1 Application Identifier Standard Request Form attached to this document.

GS1 Application Identifiers as of 1 January 2005

AI	Data Content	Format
00	Serial Shipping Container Code (SSCC)	n2+n18
01	Global Trade Item Number (GTIN) (f.k.a. SCC-14)	n2+n14
02	GTIN of trade items contained in a logistic unit (Must be used with AI 37)	n2+n14
10	Batch or Lot Number	n2+an20
11 (*)	Production Date (YYMMDD)	n2+n6
12 (*)	Due Date (YYMMDD)	n2+n6
13 (*)	Packaging Date (YYMMDD)	n2+n6
15 (*)	Minimum Durability Date (YYMMDD) (f.k.a. Best Before / Quality)	n2+n6
17 (*)	Maximum Durability Date (YYMMDD) (f.k.a. Use By / Safety)	n2+n6
20	Product Variant	n2+n2
21	Serial Number	n2+an20
22	HIBCC - Quantity, Date, Batch, and Link	n2+an29
240	Additional Product Identification Assigned by the Manufacturer	n3+an30
241	Customer Part Number	n3+an30
250	Secondary Serial Number	n3+an30
251	Reference to Source Entity	n3+an30
253	Global Document Type Identifier	n3+n1330
254	GLN Extension component	n3+an20
30	Variable Count (f.k.a. Quantity)	n2+n8
310 (***)	Net Weight, Kilograms	n4+n6
311 (***)	Length or 1st Dimension Trade, Meters	n4+n6
312 (***)	Width, Diameter, or 2nd Dimension, Trade, Meters	n4+n6
313 (***)	Depth, Thickness, Height or 3rd Dimension, Trade, Meters	n4+n6
314 (***)	Area, Trade, Square Meters	n4+n6
315 (***)	Net Volume, Liters	n4+n6
316 (***)	Net Volume, Cubic Meters	n4+n6
320 (***)	Net Weight, Pounds	n4+n6
321 (***)	Length or 1st Dimension, Trade, Inches	n4+n6
322 (***)	Length or 1st Dimension, Trade, Feet	n4+n6
323 (***)	Length or 1st Dimension, Trade, Yards	n4+n6
324 (***)	Width, Diameter, or 2nd Dimension, Trade, Inches	n4+n6
325 (***)	Width, Diameter, or 2nd Dimension, Trade, Feet	n4+n6
326 (***)	Width, Diameter, or 2nd Dimension, Trade, Yards	n4+n6
327 (***)	Depth, Thickness, Height or 3rd Dimension, Trade, Inches	n4+n6
328 (***)	Depth, Thickness, Height or 3rd Dimension, Trade, Feet	n4+n6
329 (***)	Depth, Thickness, Height or 3rd Dimension, Trade, Yards	n4+n6
330 (***)	Gross Weight, Kilograms	n4+n6
331 (***)	Length or 1st Dimension, Meters Logistics	n4+n6
332 (***)	Width, Diameter, or 2nd Dimension, Meters Logistics	n4+n6
333 (***)	Depth, Thickness, Height or 3rd Dimension, Meters, Logistics	n4+n6
334 (***)	Area, Square Meters Logistics	n4+n6
335 (***)	Gross Volume, Liters	n4+n6
336 (***)	Gross Volume, Cubic Meters	n4+n6
337 (***)	Kilograms per Square Meter	n4+n6
340 (***)	Gross Weight, Pounds	n4+n6
341 (***)	Length or 1st Dimension, Inches Logistics	n4+n6
342 (***)	Length or 1st Dimension, Feet Logistics	n4+n6

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AI	Data Content	Format
343 (***)	Length or 1st Dimension, Yards Logistics	n4+n6
344 (***)	Width, Diameter, or 2nd Dimension, Inches Logistics	n4+n6
345 (***)	Width, Diameter, or 2nd Dimension, Feet Logistics	n4+n6
346 (***)	Width, Diameter, or 2nd Dimension, Yards Logistics	n4+n6
347 (***)	Depth, Thickness, Height or 3rd Dimension, Inches, Logistics	n4+n6
348 (***)	Depth, Thickness, Height or 3rd Dimension, Feet, Logistics	n4+n6
349 (***)	Depth, Thickness, Height or 3rd Dimension, Yards, Logistics	n4+n6
350 (***)	Area, Trade, Square Inches	n4+n6
351 (***)	Area, Trade, Square Feet	n4+n6
352 (***)	Area, Trade, Square Yards	n4+n6
353 (***)	Area, Square Inches, Logistics	n4+n6
354 (***)	Area, Square Feet, Logistics	n4+n6
355 (***)	Area, Square Yards, Logistics	n4+n6
356 (***)	Net Weight, Troy Ounces	n4+n6
357 (***)	Net Volume, Ounces (U.S.)	n4+n6
360 (***)	Net Volume, Quarts	n4+n6
360 () 361 (***)	Net Volume, Gallons (U.S.)	n4+n6
. ,		n4+n6
362 (***)	Gross Volume, Quarts	
363 (***)	Gross Volume, Gallons (U.S.)	n4+n6
364 (***) 265 (***)	Net Volume, Cubic Inches	n4+n6
365 (***)	Net Volume, Cubic Feet	n4+n6
366 (***)	Net Volume, Cubic Yards	n4+n6
367 (***)	Gross Volume, Cubic Inches	n4+n6
368 (***)	Gross Volume, Cubic Feet	n4+n6
369 (***)	Gross Volume, Cubic Yards	n4+n6
37	Count of Trade Items Contained in a Logistics Unit (For Use with AI 02 Only)	
390 (***)	Amount Payable – single monetary area	n4+n15
391 (***)	Amount Payable – with ISO currency code	n4+n3+n15
392 (***)	Amount Payable for a Variable Measure Trade Item – single monetary area	n4+n15
393 (***)	Amount Payable for a Variable Measure Trade Item – with ISO currency code	n4+n3+n15
+400	Customer's Purchase Order Number	n3+an30
401	Consignment Number	n3+an30
402	Shipment Identification Number	n3+n17
403	Routing Code	n3+an30
410	Ship To (Deliver To) - GS1 Global Location Number	n3+n13
411	Bill To (Invoice To) - GS1 Global Location Number	n3+n13
412	Purchased From - GS1 Global Location Number	n3+n13
413	Ship For - Deliver For - Forward To GS1 Global Location Number	n3+n13
414	Identification of a Physical Location, GS1 Global Location Number	n3+n13
415	GS1 Global Location Number of the Invoicing Party	n3+n13
420	Ship To (Deliver To) Postal Code Within a Single Postal Authority	n3+an9
421	Ship To (Deliver To) Postal Code With 3-digit ISO Country Code Prefix	n3+n3+an9
422	Country of Origin of a Trade Item	n3+n3
423	Country of Initial Processing	n3+n15
424	Country of Processing	n3+n3
425	Country of Disassembly	n3+n3
426	Country covering full process chain	n3+n3
7001	NATO Stock Number (NSN)	n4+n13

AI	Data Content	Format
7002	UN/ECE Meat Carcasses and Cuts Classification	n4+n30
703(s)	Approval number of processor with ISO country code	n4+n330
8001	Roll products - Width, Length, Core Diameter, Direction, & Splices	n4+n14
8002	Electronic Serial Number for Cellular Mobile Telephones	n4+an20
8003	Global Returnable Asset Identifier	n4+n14+an16
8004	Global Individual Asset Identifier	n4+an30
8005	Price Per Unit of Measure	n4+n6
8006	Identification of the Component of an Article	n4+n14+n2+n2
8007	International Bank Account Number	n4+n18
8008	Date and Time of Production (YYMMDDHHMMSS)	n4+n812
8018	Global Service Relation Number	n4+n18
8020	Payment Slip Reference Number	n4+an25
8100	Coupon Extended Code - Number System Character and Offer	n4+n1+n5
8101	Coupon Extended Code - Number System Character, Offer, and End of Offer	n4+n1+n5+n4
8102	Coupon Extended Code - Number System Character preceded by zero	n4+n1+n1
90	ANSI MH10.8.2 Data Identifiers (Information Agreed Between Trading Partners)	n2+an4+an26
91	Intra-Company Internal	n2+an30
92	Intra-Company Internal	n2+an30
93	Intra-Company Internal	n2+an30
94	Internal	n2+an30
95	Internal - Carriers	n2+an30
96	Internal - Carriers	n2+an30
97	Intra-Company Internal	n2+an30
98	Intra-Company Internal	n2+an30
99	Internal	n2+an30

To indicate only year and month, DD can be filled with "00" Plus one digit for length indication Plus one digit for decimal point indication (*) :

(**): (***):

(+) : The definition of 400 has been modified to allow order, release, and line numbers, at the discretion of the issuer

Date Value Representation:

а	alphabetic characters (chars)	n	numeric chars	an	alphanumeric chars
	3 numeric chars, fixed length up to 3 alphabetic chars		3 alpha-numeric chars, fixed length up to 3 alphanumeric chars		up to 3 numeric chars sequence in the process

SECTION III MAPPING ANSI MH10.8.2 DIs & GS1 Als

SECTION III MAPPING ANSI MH10.8.2 DIs to GS1 AIs

DEFINED CATEGORIES

Editor's Note: The usage of the term "number" below is not intended to be restricted to numeric characters only, but to generically refer to a code structure which may contain numeric and/or alphabetic data. The following Application and Data Identifiers are assigned to the usages described. The usage of any alphabetic, numeric, or special character in a leading position (as a "Data Identifier") not defined herein is reserved for future assignment by the body controlling these guidelines. Unless otherwise specified leading zeroes (0's) are non-significant and not to be employed (e.g., 0A, 00A, 00A, 01A, 011A). References to other ANSI Standards are to the most current version of that standard.

"n/e" means no equivalent.

CATEGORY/DESCRIPTION	ANSI MH10.8.2 DI	GS1 Al
CATEGORY 1: Reserved		
Reserved	A - 999A	n/e
CATEGORY 2: Container Information	_	
Container Type (internally assigned or mutually defined)	B	n/e
Returnable container identification code assigned by the container	1B	8003
owner or the appropriate regulatory agency (e.g., a metal tub, basket, reel, unit load device (ULD), trailer, tank, or intermodal container)		or 8004
(excludes gas cylinders See "2B")		0004
Gas Cylinder Container Identification Code assigned by the	2B	n/e
manufacturer in conformance with U.S. Department of Transportation	20	1
(D.O.T.) standards		
Motor Freight Transport Equipment Identification Code assigned by	3B	n/e
the manufacturer in conformance with International Organization for		
Standardization (ISO) standards		
Standard Carrier Alpha Code (SCAC) (an4 - dash "-" filled left) and	4B	n/e
carrier assigned trailer number		
Receptacle Asset Number – Consisting of two joined parts:	5B	8003
 Identification of an organization in accordance with ISO/IEC 15459 		
and a unique entity identification assigned in accordance with rules established by the issuing agency		
 A unique serial number assigned by the entity, ending with a 3- 		
character container type code taken from EDIFACT Code List		
8053 or UPU standard M82-3. (If the container type code listed is		
less than three characters in length, the field will be dash "-" filled		
left to the length of three characters)		
Reserved	6B	n/e
Identification of a returnable container owner assigned in cooperation	7B	n/e
with BIC, followed by the unique container identification assigned by		
the container owner, e.g., 8B OC EI CSN CD, where the OC is the		
owner code assigned in cooperation with BIC, the EI is the equipment		
category code assigned in cooperation with BIC, the CSN is unique container identification assigned by the equipment owner, and CD is		
the modulus 11 check digit calculated in accordance with Annex A,		
ISO 6346.		

CATEGORY/DESCRIPTION	ANSI MH10.8.2 DI	GS1 Al
Identification of a returnable container owner assigned in cooperation with BIC	8B	n/e
Container Type as defined in ISO 6346 Container Ownership Code. Actual four-character abbreviation marked on the container by the owner. For DOD owned containers	9B 10B	n/e n/e
see Defense Transportation Regulation App EE-6 Van Number (complete number minus check digit)	11B	n/e
Check digit of Van Number identified in 11B	12B	n/e
Container Number Code (last 5 digits of number not counting check	13B	n/e
digit) Deserved	44D 04D	nlo
Reserved Identification of a party to a transaction as identified in 18V, followed by the supplier assigned serial number to a returnable transport item	14B – 24B 25B	n/e 8003
(RTI) Reserved	26B – 999B	n/e
CATEGORY 3: Field Continuation Continuation of an Item Code (Category 16) assigned by Customer that is too long for a required field size	С	n/e
Continuation of Traceability Code (Category 20) assigned by Supplier	1C	n/e
Continuation of Serial Number (Category 19) assigned by Supplier	2C	n/e
Continuation of Free Text (Category 26) mutually defined between Supplier/Carrier/Customer	3C	n/e
Continuation of Transaction Reference (Category 11) mutually defined between Supplier/Carrier/Customer	4C	n/e
Continuation of Item Code (Category 16) Assigned by Supplier	5C	n/e
Reserved	6C - 999C	n/e
CATEGORY 4: Date		
Format YYMMDD ^{Note 2}	D	n/e
Format DDMMYY ^{Note 2}	1D	n/e
Format MMDDYY ^{Note 2}	2D	n/e
Format YDDD (Julian) ^{Note 2}	3D	n/e
Format YYDDD (Julian) ^{Note 2}	4D	n/e
ISO format YYMMDD immediately followed by an ANSI X12.3 Data Element Number 374 Qualifier providing a code specifying type of date (e.g., ship date, manufacture date)	5D	n/e
Production Date (YYMMDD)	5D405	11
Expiration Date (YYMMDD)	5D036	17
Packaging Date (YYMMDD)	n/e	13
Best Before/Sell By Date (YYMMDD)	n/e	15
ISO format YYYYMMDD immediately followed by an ANSI X12.3 Data Element Number 374 Qualifier providing a code specifying type of date (e.g., ship date, manufacture date)	6D	
Format MMYY ^{Note 2}	7D	n/e
Reserved	8D	n/e
Date (structure and significance mutually defined)	9D	n/e
Format YYWW ^{Note 2}	10D	n/e
Format YYYYWW ^{Note 2}	11D	n/e
Format YYYYMMDD ^{Note 2}	12D	n/e
Oldest and Newest Manufacturing Date in the format YYWWYYWW	13D	n/e
Expiration Date (YYYYMMDD)	14D	n/e

CATEGORY/DESCRIPTION	ANSI MH10.8.2 DI	GS1 Al
Expiration Date (DDMMYYYY)	15D	n/e
Production Date (YYYYMMDD)	16D	n/e
Production Date (DDMMYYYY)	17D	n/e
Date and Time of Production (YYMMMDDHHSS)	n/e	8008
Reserved	18D – 19D	n/e
Inspection Date (DDMMMYYYY)	20D	n/e
Required Delivery Date (DDD Julian) or DOD MILSTAMP Code Record Date Time Stamp (YYYYMMDDTTTT) where T equals hour	21D 22D	n/e n/e
and minutes	220	n/e
Reserved	23D – 999D	n/e
CATEGORY 5: Reserved		_
Restricted Substance Classification – "Environmental Classification Code" including Lead-Free (Pb-Free) finish categories defined in JESD97 (IPC JEDEC J-STD-609), and future Industry or governmental agency assigned codes related to environmental regulatory compliance and hazardous material content	E	n/e
Air pressure – (altitude) expressed in Pascal's as the standard international measure	1E	n/e
Reserved	2E – 9E	n/e
Cumulative Time Temperature index – expressed as the number of	10E	n/e
measurements or counts Time Temperature Index – Next Higher Assembly – expressed as the number of measurements or counts	11E	n/e
Reserved	12E – 999E	n/e
CATEGORY 6: Looping	F	
Looping Header as defined as Section VI of this document	F 1F – 999F	
	F 1F – 999F	_
Looping Header as defined as Section VI of this document Reserved CATEGORY 7: Reserved	1F – 999F	
Looping Header as defined as Section VI of this document Reserved	-	
Looping Header as defined as Section VI of this document Reserved CATEGORY 7: Reserved	1F – 999F	
Looping Header as defined as Section VI of this document Reserved CATEGORY 7: Reserved Reserved CATEGORY 8: Human Resources Reserved	1F – 999F G - 999G H	n/e
Looping Header as defined as Section VI of this document Reserved CATEGORY 7: Reserved Reserved CATEGORY 8: Human Resources Reserved Employee Identification Code assigned by employer	1F – 999F G - 999G H 1H	n/e
Looping Header as defined as Section VI of this document Reserved CATEGORY 7: Reserved Reserved CATEGORY 8: Human Resources Reserved Employee Identification Code assigned by employer U.S. Social Security Number	1F – 999F G - 999G H 1H 2H	n/e n/e
Looping Header as defined as Section VI of this document Reserved CATEGORY 7: Reserved Reserved CATEGORY 8: Human Resources Reserved Employee Identification Code assigned by employer U.S. Social Security Number ID Number for non-employee (internally assigned or mutually defined)	1F – 999F G - 999G H 1H	n/e
Looping Header as defined as Section VI of this document Reserved CATEGORY 7: Reserved Reserved CATEGORY 8: Human Resources Reserved Employee Identification Code assigned by employer U.S. Social Security Number ID Number for non-employee (internally assigned or mutually defined) (e.g., contract workers, vendors, service, and delivery personnel)	1F – 999F G - 999G H 1H 2H 3H	n/e n/e
Looping Header as defined as Section VI of this document Reserved CATEGORY 7: Reserved Reserved CATEGORY 8: Human Resources Reserved Employee Identification Code assigned by employer U.S. Social Security Number ID Number for non-employee (internally assigned or mutually defined)	1F – 999F G - 999G H 1H 2H	n/e n/e n/e
Looping Header as defined as Section VI of this document Reserved CATEGORY 7: Reserved Reserved CATEGORY 8: Human Resources Reserved Employee Identification Code assigned by employer U.S. Social Security Number ID Number for non-employee (internally assigned or mutually defined) (e.g., contract workers, vendors, service, and delivery personnel) National Social Security Number Last Name Reserved	1F – 999F G - 999G H 1H 2H 3H 4H	n/e n/e n/e n/e
Looping Header as defined as Section VI of this document Reserved CATEGORY 7: Reserved Reserved CATEGORY 8: Human Resources Reserved Employee Identification Code assigned by employer U.S. Social Security Number ID Number for non-employee (internally assigned or mutually defined) (e.g., contract workers, vendors, service, and delivery personnel) National Social Security Number Last Name Reserved Personal Identification Code (first initial, Last Initial, last four of SSN)	1F – 999F G - 999G H 1H 2H 3H 4H 5H 6H – 9H 10H	n/e n/e n/e n/e n/e
Looping Header as defined as Section VI of this document Reserved CATEGORY 7: Reserved Reserved CATEGORY 8: Human Resources Reserved Employee Identification Code assigned by employer U.S. Social Security Number ID Number for non-employee (internally assigned or mutually defined) (e.g., contract workers, vendors, service, and delivery personnel) National Social Security Number Last Name Reserved Personal Identification Code (first initial, Last Initial, last four of SSN) First name and middle initial	1F – 999F G - 999G H 1H 2H 3H 4H 5H 6H – 9H 10H 11H	n/e n/e n/e n/e n/e n/e n/e
Looping Header as defined as Section VI of this document Reserved CATEGORY 7: Reserved Reserved CATEGORY 8: Human Resources Reserved Employee Identification Code assigned by employer U.S. Social Security Number ID Number for non-employee (internally assigned or mutually defined) (e.g., contract workers, vendors, service, and delivery personnel) National Social Security Number Last Name Reserved Personal Identification Code (first initial, Last Initial, last four of SSN) First name and middle initial Military Grade (E1-E9, W1-W5, and O1-O10)	1F – 999F G - 999G H 1H 2H 3H 4H 5H 6H – 9H 10H 11H 11H 12H	n/e n/e n/e n/e n/e n/e n/e n/e
Looping Header as defined as Section VI of this document Reserved CATEGORY 7: Reserved Reserved CATEGORY 8: Human Resources Reserved Employee Identification Code assigned by employer U.S. Social Security Number ID Number for non-employee (internally assigned or mutually defined) (e.g., contract workers, vendors, service, and delivery personnel) National Social Security Number Last Name Reserved Personal Identification Code (first initial, Last Initial, last four of SSN) First name and middle initial	1F – 999F G - 999G H 1H 2H 3H 4H 5H 6H – 9H 10H 11H	n/e n/e n/e n/e n/e n/e n/e
Looping Header as defined as Section VI of this document Reserved CATEGORY 7: Reserved Reserved CATEGORY 8: Human Resources Reserved Employee Identification Code assigned by employer U.S. Social Security Number ID Number for non-employee (internally assigned or mutually defined) (e.g., contract workers, vendors, service, and delivery personnel) National Social Security Number Last Name Reserved Personal Identification Code (first initial, Last Initial, last four of SSN) First name and middle initial Military Grade (E1-E9, W1-W5, and O1-O10) Reserved	1F – 999F G - 999G H 1H 2H 3H 4H 5H 6H – 9H 10H 11H 11H 12H	n/e n/e n/e n/e n/e n/e n/e n/e
Looping Header as defined as Section VI of this document Reserved CATEGORY 7: Reserved Reserved CATEGORY 8: Human Resources Reserved Employee Identification Code assigned by employer U.S. Social Security Number ID Number for non-employee (internally assigned or mutually defined) (e.g., contract workers, vendors, service, and delivery personnel) National Social Security Number Last Name Reserved Personal Identification Code (first initial, Last Initial, last four of SSN) First name and middle initial Military Grade (E1-E9, W1-W5, and O1-O10)	1F – 999F G - 999G H 1H 2H 3H 4H 5H 6H – 9H 10H 11H 11H 12H	n/e n/e n/e n/e n/e n/e n/e n/e
Looping Header as defined as Section VI of this document Reserved CATEGORY 7: Reserved Reserved CATEGORY 8: Human Resources Reserved Employee Identification Code assigned by employer U.S. Social Security Number ID Number for non-employee (internally assigned or mutually defined) (e.g., contract workers, vendors, service, and delivery personnel) National Social Security Number Last Name Reserved Personal Identification Code (first initial, Last Initial, last four of SSN) First name and middle initial Military Grade (E1-E9, W1-W5, and O1-O10) Reserved CATEGORY 9: Reserved Exclusive Assignment (U.S. Vehicle Identification Number - VIN) Reserved	1F – 999F G - 999G H 1H 2H 3H 4H 5H 6H – 9H 10H 11H 11H 12H	n/e n/e n/e n/e n/e n/e n/e n/e n/e
Looping Header as defined as Section VI of this document Reserved CATEGORY 7: Reserved Reserved CATEGORY 8: Human Resources Reserved Employee Identification Code assigned by employer U.S. Social Security Number ID Number for non-employee (internally assigned or mutually defined) (e.g., contract workers, vendors, service, and delivery personnel) National Social Security Number Last Name Reserved Personal Identification Code (first initial, Last Initial, last four of SSN) First name and middle initial Military Grade (E1-E9, W1-W5, and O1-O10) Reserved CATEGORY 9: Reserved Exclusive Assignment (U.S. Vehicle Identification Number - VIN)	1F – 999F G - 999G H 1H 2H 3H 4H 5H 6H – 9H 10H 11H 12H 13H – 999H	n/e n/e n/e n/e n/e n/e n/e n/e

CATEGORY/DESCRIPTION	ANSI MH10.8.2 DI	GS1 AI
CATEGORY 10: License Plate	-	00
Unique license plate number* Unique license plate number* assigned to a transport unit which is the	J 1J	00 00
lowest level of packaging, the unbreakable unit	IJ	00
Unique license plate number* assigned to a transport unit which	2J	00
contains multiple packages		
Unique license plate number* assigned to a transport unit which is the	3J	00
lowest level of packaging, the unbreakable unit and which has EDI		
data associated with the unit		
Unique license plate number* assigned to a transport unit which	4J	00
contains multiple packages and which is associated with EDI data	5J	nlo
Unique license plate number* assigned to a mixed transport unit containing unlike items on a single customer transaction and may or	55	n/e
may not have associated EDI data.		
Unique license plate number* assigned to a master transport unit	6J	n/e
containing like items on a single customer transaction and may or may		
not have associated EDI data.		
Vehicle Registration License Plate Number (not unique without	7J	n/e
identification of country and issuing governmental region/authority)		
Reserved *Note: For a license plate number to be unique world wide requires: 1) A	8J – 999J	n/e
assigned to the trading partner by an organization, and 3) A unique code providing global identification of the assigning organization. ISO/IEC 15459-1:1999 describes the format and usage of these Data Identifiers. CATEGORY 11: Transaction Reference Used In Trading		
Relationships		
Order number assigned by Customer to identify a Purchasing	К	400
Transaction (e.g., purchase order number)	414	,
Order number assigned by Supplier to identify a Purchasing	1K	n/e
Transaction Bill of Lading/Waybill/Shipment Identification Code assigned by	2K	402
Supplier/Shipper	21	402
Bill of Lading/Waybill/Shipment Identification Code assigned by Carrier	3K	n/e
Line number of the order assigned by Customer to identify a	4K	400
Purchasing Transaction (See Annex C.9)		
Reference number assigned by the Customer to identify a Shipment	5K	400
Authorization (Release) against an established Purchase Order	CIV.	
PRO# Assigned by Carrier Carrier Mode in Free Text format mutually defined between Customer	6K 7K	n/e n/e
and Supplier (e.g., Air, Truck, Boat, Rail)		11/6
Contract Number	8K	
Generic Transaction Reference Code (internally assigned or mutually	9K	n/e
defined)		
Invoice Number	10K	n/e
Packing List Number	11K	n/e
SCAC (Standard Carrier Alpha Code) (an4 - dash "-" filled left) and carrier assigned PROgressive number	12K	95 or 95
Reserved	13K	n/e
Combined Order Number and Line Number in the format nnnn+nnn where a plus symbol (+) is used as a delimiter between the Order Number and Line Number	14K	400

CATEGORY/DESCRIPTION	ANSI MH10.8.2 DI	GS1 AI
KANBAN Number	15K	n/e
DELINS Number: code assigned to identify a document which contains delivery information	16K	n/e
Check Number	17K	n/e
Structured Reference (See Annex C.10)	18K	n/e
Foreign Military Sales Case Number	19K	n/e
Reserved	20K – 999K	n/e
CATEGORY 12: Location Reference	-	m la
Storage Location	L	n/e
Location	1L	n/e
"Ship To:" Location code defined by an industry standard or mutually defined	2L	410
"Ship From:" Location code defined by an industry standard or mutually defined	3L	n/e
GLN Extension component	n/e	254
"Bill To" (Invoice To) - GS1 Global Location Number	n/e	411
"Purchased From" - GS1 Global Location Number	n/e	412
Country of Origin, two-character ISO 3166 country code	4L	422
"Ship For:" Location code defined by an industry standard or mutually defined	5L	413
Route Code assigned by the supplier to designate a specific transportation path	6L	403
6-digit Department of Defense Activity Code (DoDAAC)	7L	n/e
Port of Embarkation – Mutually defined	8L	n/e
Port of Debarkation – Mutually defined	9L	n/e
Country of Initial Processing	n/e	423
Country of Processing	n/e	424
Country of Disassembly	n/e	425
Country covering full process chain	n/e	426
Reserved	10L – 19L	n/e
The following DIs can be used to provide for Location identification, which is different than or in addition to Location Reference provided by "L".		
First Level (internally assigned)	20L	n/e
Second Level (internally assigned)	21L	n/e
Third Level (internally assigned	22L	n/e
Fourth Level (internally assigned)	23L	n/e
Fifth Level (internally assigned)	24L	n/e
Identification of a party to a transaction as identified in 18V, followed by an internal physical location of and assigned by the party identified in 18V, e.g., 25L IAC CIN LOC, where the IAC is the issuing agency code assigned by the ISO 15459-2 Registration Authority, the CIN is the company identification code assigned by the IAC, and the LOC is the physical internal location assigned by the CIN.	25L	414
Reserved	26L – 50L	n/e
The following two Data Identifiers are to be used for shipments within the jurisdiction of a single postal authority.		
"Ship From:" - Location code defined by a postal authority (e.g., 5-digit and 9-digit ZIP codes identifying U.S. locations or 6-character postal	51L	n/e
codes identifying Canadian locations)		
"Ship To:" - Location code defined by a postal authority (e.g., 5-digit and 9-digit ZIP codes identifying U.S. locations or 6-character postal	52L	420
codes identifying Canadian locations) Reserved	53L	n/e

CATEGORY/DESCRIPTION	ANSI MH10.8.2 DI	GS1 Al
The following two Data Identifiers are to be used for shipments between		
<i>locations governed by different postal authorities</i> "Ship From:" - Location code defined by a postal authority in the format: postal codes (e.g., 5-digit ZIP codes identifying U.S. locations or 6- or 7-character postal codes identifying United Kingdom locations) followed by two observes ISO 2166 country code, (e.g., US or CP)	54L	n/e
followed by two character ISO 3166 country code (e.g., US or GB) "Ship To:" - Location code defined by a postal authority in the format: postal codes (e.g., 5-digit ZIP codes identifying U.S. locations or 6- or 7-character postal codes identifying United Kingdom locations) followed by two character ISO 3166 country code (e.g., US or GB)	55L	n/e
Ship To (Deliver To) Postal Code With 3-digit ISO Country Code Prefix	n/e	421
Reserved	56L - 999L	n/e
CATEGORY 13: Maintenance Codes		
Reserved	Μ	n/e
Reserved	1M – 9M	n/e
Army form 2410 data. Format is data value preceded by the block number of the form 2410. Field lengths and acceptable characters can be found at http://www.apd.army.mil/pdffiles/p738_751.pdf	10M	n/e
Army form 2408 data. Format is data value preceded by the block number of the form 2408. field lengths and acceptable characters can be found at http://www.apd.army.mil/pdffiles/p738_751.pdf	11 M	n/e
Army form 2407 data. Format is data value preceded by the block number of the form 2407. field lengths and acceptable characters can be found at http://www.apd.army.mil/pdffiles/p738_751.pdf	12 M	n/e
Air Force Form 95 data. Format is data value preceded by the block number of the form 95. Field lengths and acceptable characters can be found at http://www.abqbetty.com/Logistics/00-20-5.pdf	13M	n/e
Navy Form 4790 data. Format is data value preceded by the block number of the form 2410. Field lengths and acceptable character can be found at http://www.tpub.com/content/aviation/12324/	14 M	n/e
Reserved	15M – 999M	n/e
CATECODY 14. Inductory Acciment Codes		
CATEGORY 14: Industry Assigned Codes National/NATO Stock Number (NSN)	N	7001
Product Characteristic Data defined by the Chemical Industry Data Exchange (CIDX)	1N	n/e
Reserved	2N	n/e
Coding Structure in Accordance with Format Defined by Electronic Industries Association Japan (EIAJ)	3N	n/e
Coding Structure and Formats in Accordance with GS1 Application Identifiers (AI plus data) (GS1)	4N	n/e
Coding Structure and Formats in Accordance with AIAG Recommendations. The full code list can be found at http://www.aiag.org/projects/project_list_5n.html	5N	n/e
U.S. DOD Requisition and Issue Procedure Codes. The format is the MILSTRIP code the appropriate followed by the data value associated with that code. (The full list of codes is available at http://www.dla.mil/j6/dlmso/eLibrary/Manual/MILSTRIP/Reissue2004/MILSTRIPfileformats.asp in Appendix 2	6N	n/e

CATEGORY/DESCRIPTION	ANSI MH10.8.2 DI	GS1 Al
U.S. Defense Transportation Regulation codes. The format is the DTR code followed by the appropriate data value associated with that code. (The full list of codes is available at http://www.transcom.mil/j5/pt/dtr_part_ii.html in appendices Y through YY)	7N	n/e
Production animal identification codes. The format is the production animal code followed by the appropriate data value associated with that code. (The full list of codes is maintained at the website http://aimglobal.org/)	8N	n/e
Reserved	9N – 999N	n/e
UN/ECE Meat Carcasses and Cuts Classification	n/e	7002
Approval number of processor with ISO country code	n/e	703(s)
CATEGORY 15: Reserved		
Not recommended for use due to similarity of "0" (zero) to "O"	O - 999O	n/e
CATEGORY 16: Item Information		
Item Identification Code assigned by Customer	Р	241
Item Identification Code assigned by Supplier	1P	01
Code assigned to specify the revision level for an Item (e.g.,	2P	n/e
engineering change level, edition, or revision)	0D	
Combined manufacturer identification code/item code under the 12/13-	3P	GS1 GTIN
digit GS1 formats, plus supplemental codes, if any	nlo	8001
Roll products - Width, Length, Core Diameter, Direction, & Splices Item Code portion of GS1 formats	n/e 4P	n/e
Freight Classification Item Number assigned by Carrier for purposes of	4P 5P	n/e
rating hazardous materials (e.g., Motor Freight, Air, Boat, Rail Classification)	51	ine.
Combined supplier identification and item code (internally assigned or mutually defined)	6P	n/e
Common Language Equipment Identification (CLEI) assigned by the manufacturer to some telecommunications equipment	7P	n/e
14-digit GS1 format for SCC-14 code structure	8P	01
Combined manufacturer identification code (9-digit DUNS number assigned by Dun & Bradstreet) and the item code/part number	9P	n/e
(assigned by the manufacturer).		
Hazardous Material Code as defined by ANSI X12.3 in the format Data Element 208 (1-character code qualifier) followed by Data Element 209 (Hazardous Material Code)	10P	n/e
10-character CLEI Code for telecommunications equipment	11P	n/e
Document Type (e.g., Pick List, Design Drawing, etc.) (internally	12P	n/e
assigned or mutually defined)	121	1//0
VMRS System Code	13P	n/e
VMRS System and Assembly Code	14P	n/e
VMRS System, Assembly, & Part Code	15P	n/e
VMRS System, Assembly, or Part Code (User Modified	16P	n/e
Combined GS1 supplier identification and item code assigned by the	17P	01
supplier	18P	nla
Combined VMRS supplier ID and supplier assigned part number Component of an Item (One product contained in multiple packages)	18P 19P	n/e 8006
Product Variant	n/e	20
HIBCC - Quantity, Date, Batch, and Link	n/e	20

CATEGORY/DESCRIPTION	ANSI MH10.8.2 DI	GS1 Al
The following five DIs can be used to provide for Item identification (Item ID), which is different than or in addition to Item ID provided by "P".		
First Level (Customer Assigned)	20P	n/e
Second Level (Customer Assigned)	21P	n/e
Third Level (Customer Assigned)	22P	n/e
Fourth Level (Customer Assigned)	23P	n/e
Fifth Level (Customer Assigned)	24P	n/e
Identification of a party to a transaction as identified in 18V, followed by the supplier assigned part number.	25P	n/e
Part Number of next higher assembly	26P	n/e
Reserved	27P – 29P	n/e
The following five DIs can be used to provide for Item identification (Item ID), which is different than or in addition to Item ID provided by "1P".		
First Level (Supplier Assigned)	30P	240
Second Level (Supplier Assigned)	31P	n/e
Third Level (Supplier Assigned)	32P	n/e
Fourth Level (Supplier Assigned)	33P	n/e
Fifth Level (Supplier Assigned)	34P	n/e
Reserved	35P - 39P	n/e
A code assigned by a customer to the identification number of the	40P	n/e
manufacturer's Material Safety Data Sheet (MSDS) document that describes the uses, hazards, and chemical composition of a		
hazardous material.		
Reserved	41P - 999P	n/e
CATEGORY 17: Measurement	-	
Quantity, Number of Pieces, or Amount (numeric only) (unit of	Q	30
measure and significance mutually defined		
Theoretical Length/Weight (numeric only)	1Q	n/e
Actual Weight (numeric only)	2Q	n/e
Unit of Measure, as defined by the two character ANSI X12.3 Data	3Q	n/e
Element Number 355 Unit of Measurement Code	_	_
Gross Amount	4Q	n/e
Net Amount	5Q	n/e
Reserved	6Q	n/e
Quantity, Amount, or Number of Pieces in the format: Quantity	7Q	
followed by the two character ANSI X12.3 Data Element Number 355		
Unit of Measurement Code		$\psi\psi\psi\psi$
Net Weight, Kilograms	70 50	310
Length or 1st Dimension, Meters	7Q58	
	7QMR	311 or 331
Width, Diameter, or 2nd Dimension, Meters	7QMR 7QMR	311 or 331 312 or 332
	7QMR	
Width, Diameter, or 2nd Dimension, Meters	7QMR 7QMR	312 or 332
Width, Diameter, or 2nd Dimension, Meters Depth, Height, or Thickness or 3rd Dimension, Meters	7QMR 7QMR 7QMR	312 or 332 313 or 333
Width, Diameter, or 2nd Dimension, Meters Depth, Height, or Thickness or 3rd Dimension, Meters Area, Square Meters	7QMR 7QMR 7QMR 7QSM	312 or 332 313 or 333 314 or 334
Width, Diameter, or 2nd Dimension, Meters Depth, Height, or Thickness or 3rd Dimension, Meters Area, Square Meters Volume, Liters	7QMR 7QMR 7QSM 7QLT 7QCO 7QCR	312 or 332 313 or 333 314 or 334 315 or 335
Width, Diameter, or 2nd Dimension, Meters Depth, Height, or Thickness or 3rd Dimension, Meters Area, Square Meters Volume, Liters Volume, Cubic Meters (Net)	7QMR 7QMR 7QSM 7QLT 7QCO	312 or 332 313 or 333 314 or 334 315 or 335 316
Width, Diameter, or 2nd Dimension, Meters Depth, Height, or Thickness or 3rd Dimension, Meters Area, Square Meters Volume, Liters Volume, Cubic Meters (Net) Volume, Cubic Meters (Gross)	7QMR 7QMR 7QSM 7QLT 7QCO 7QCR	312 or 332 313 or 333 314 or 334 315 or 335 316 336
Width, Diameter, or 2nd Dimension, Meters Depth, Height, or Thickness or 3rd Dimension, Meters Area, Square Meters Volume, Liters Volume, Cubic Meters (Net) Volume, Cubic Meters (Gross) Net Weight, Pounds	7QMR 7QMR 7QSM 7QLT 7QCO 7QCR 7QPN	312 or 332 313 or 333 314 or 334 315 or 335 316 336 320
Width, Diameter, or 2nd Dimension, Meters Depth, Height, or Thickness or 3rd Dimension, Meters Area, Square Meters Volume, Liters Volume, Cubic Meters (Net) Volume, Cubic Meters (Gross) Net Weight, Pounds Length or 1st Dimension, Inches	7QMR 7QMR 7QSM 7QLT 7QCO 7QCR 7QPN 7QED	312 or 332 313 or 333 314 or 334 315 or 335 316 336 320 321 or 341
Width, Diameter, or 2nd Dimension, Meters Depth, Height, or Thickness or 3rd Dimension, Meters Area, Square Meters Volume, Liters Volume, Cubic Meters (Net) Volume, Cubic Meters (Gross) Net Weight, Pounds Length or 1st Dimension, Inches Length or 1st Dimension, Feet Length or 1st Dimension, Yards	7QMR 7QMR 7QSM 7QLT 7QCO 7QCR 7QED 7QED 7QEZ 7QYD	312 or 332 313 or 333 314 or 334 315 or 335 316 336 320 321 or 341 322 or 342
Width, Diameter, or 2nd Dimension, Meters Depth, Height, or Thickness or 3rd Dimension, Meters Area, Square Meters Volume, Liters Volume, Cubic Meters (Net) Volume, Cubic Meters (Gross) Net Weight, Pounds Length or 1st Dimension, Inches Length or 1st Dimension, Feet Length or 1st Dimension, Yards Length or 1st Dimension, Yards	7QMR 7QMR 7QSM 7QLT 7QCO 7QCR 7QED 7QED 7QEZ 7QYD 7QGY	312 or 332 313 or 333 314 or 334 315 or 335 316 336 320 321 or 341 322 or 342 323 343
Width, Diameter, or 2nd Dimension, Meters Depth, Height, or Thickness or 3rd Dimension, Meters Area, Square Meters Volume, Liters Volume, Cubic Meters (Net) Volume, Cubic Meters (Gross) Net Weight, Pounds Length or 1st Dimension, Inches Length or 1st Dimension, Feet Length or 1st Dimension, Yards Length or 1st Dimension, Yards (Gross) Width, Diameter, or 2nd Dimension, Inches	7QMR 7QMR 7QSM 7QLT 7QCO 7QCR 7QED 7QED 7QEZ 7QYD 7QGY 7QED	312 or 332 313 or 333 314 or 334 315 or 335 316 336 320 321 or 341 322 or 342 323 343 324 or 344
Width, Diameter, or 2nd Dimension, Meters Depth, Height, or Thickness or 3rd Dimension, Meters Area, Square Meters Volume, Liters Volume, Cubic Meters (Net) Volume, Cubic Meters (Gross) Net Weight, Pounds Length or 1st Dimension, Inches Length or 1st Dimension, Feet Length or 1st Dimension, Yards Length or 1st Dimension, Yards	7QMR 7QMR 7QSM 7QLT 7QCO 7QCR 7QED 7QED 7QEZ 7QYD 7QGY	312 or 332 313 or 333 314 or 334 315 or 335 316 336 320 321 or 341 322 or 342 323 343

CATEGORY/DESCRIPTION Width, Diameter, or 2nd Dimension, Yards (Gross) Depth, Thickness, Height or 3rd Dimension, Inches Depth, Thickness, Height or 3rd Dimension, Feet Depth, Thickness, Height or 3rd Dimension, Yards Depth, Thickness, Height or 3rd Dimension, Yards	ANSI MH10.8.2 DI 7QGY 7QED 7QEZ 7QYD 7QGY	GS1 AI 346 327 or 347 328 or 348 329 349
Gross Weight, Kilograms Kilograms per Square Meter Gross Weight, Pounds Area, Square Inches Area, Square Feet Area, Square Yards Net Weight, Troy Ounces Net Weight, Ounces Volume, Quarts Volume, Gallons Volume, Gallons (Gross) Volume, Cubic Inches Volume, Cubic Inches Volume, Cubic Feet Volume, Cubic Feet Volume, Cubic Yards Reserved Piece Weight: weight of a single item Reserved Tare Weight: weight of an empty container Monetary Value established by the Supplier in the format of: the value followed by an ISO 4217 data element code for representing unit of value of currencies and funds (e.g., 12Q2.50USD) (2.50 Monetary Value in USA Dollars) significance mutually defined	7QGT 7QKM 7QPG 7QSI 7QSF 7QSY 7QOZ 7QQT 7QQT 7QCI 7QCI 7QCF 7QCY 8Q 9Q 10Q 11Q 11Q	330 337 340 350 or 353 351 or 354 352 or 355 356 357 360 or 362 361 363 364 or 367 365 or 368 366 or 369 n/e n/e n/e n/e
# of # ("this is the <i>nth</i> piece of x pieces in this shipment") Presented in the format " n/x ", where the "/" (slash) is used as a delimiter between two values. See Annex C.6.3 for further information Beginning Secondary Quantity	13Q 14Q	n/e n/e
Ending Secondary Quantity Number of pieces in Van Number of shipments in van Cube expressed in cubic meters or cubic feet as indicated by the ANSI X12.3 data element number 355 unit of measure code (CR or CF). No implied decimal point.	15Q 16Q 17Q 18Q	n/e n/e n/e
Width expressed in linear meters or linear feet as indicated by the ANSI X12.3 data element number 355 unit of measure (LC or LF). No implied decimal point. Height expressed in linear meters or linear feet as indicated by the	19Q 20Q	n/e n/e
ANSI X12.3 data element number 355 unit of measure (LC or LF). No implied decimal point. Length expressed in linear meters or linear feet as indicated by the ANSI X12.3 data element number 355 unit of measure (LC or LF). No implied decimal point.	20Q	n/e

CATEGORY/DESCRIPTION	ANSI MH10.8.2 DI	GS1 Al
Net weight of shipment expressed in pounds or kilograms (kilos) as indicated by the ANSI X12.3 data element number 355 unit of measure (LB or KG). No implied decimal point.	22Q	n/e
Van length expressed in linear meters or linear feet as indicated by the ANSI X12.3 data element number 355 unit of measure (LC or LF). No implied decimal point.	23Q	n/e
Inside cube of a van expressed in cubic meters or cubic feet as indicated by the ANSI X12.3 data element number 355 unit of measure code (CR or CF). No implied decimal point.	24Q	n/e
Net explosive weight (a computed value of explosive equivalent expressed in pounds of TNT). The measure of NEW, is used internationally for explosive safety quantity distance arc computations. No implied decimal point.	25Q	n/e
Reserved	26Q – 999Q	n/e
CATEGORY 18: Miscellaneous		
Reserved	R	n/e
Return Authorization Code (RMA) assigned by the Supplier	1R	n/e
Return Code assigned by the Customer	2R	n/e
Reserved	3R	n/e
U.S. Department of Defense Identification Code (DoDIC) Reserved	4R	n/e
Reserved	5R - 999R	n/e
CATEGORY 19: Traceability Number for an Entity		
Serial number or code assigned by the Supplier to an entity for its lifetime, (e.g., computer serial number, traceability number, contract tool identification)	S	21
Additional code assigned by the Supplier to an entity for its lifetime (e.g., traceability number, computer serial number)	1S	n/e
Advance Shipment Notification (ASN) Shipment ID (SID) corresponds to ANSI ASC X12 Data Element 396 Unique Package Identification assigned by Supplier (lowest level of	2S 3S	n/e n/e
packaging which has a package ID code; shall contain like items) Package Identification assigned by Supplier to master packaging	4S	n/e
containing like items on a single customer order (See Annex C.7) Package Identification assigned by Supplier to master packaging containing unlike items on a single customer order (See Annex C.7)	5S	n/e
Package Identification assigned by Supplier to master packaging containing like items over multiple customer orders (See Annex C.7)	6S	n/e
Package Identification assigned by Supplier to master packaging containing unlike items over multiple customer orders (See Annex C.7) Supplier ID/Unique Container ID presented in the data format specified	7S 8S	n/e 00
by the GS1 SSCC-18 Package Identification, Generic (mutually defined)	9S	n/e
Machine, cell, or tool ID code	10S	n/e
Fixed asset ID code	11S	n/e
Document Number (internally assigned or mutually defined)	12S	n/e
Container Security Seal	13S	n/e
4th Class Non-identical parcel post manifesting Serial Number Assigned by the Vendor Entity, that can only be used in	14S 15S	n/e n/e
conjunction with "13V" Version Number, e.g., Software Version	16S	n/e

CATEGORY/DESCRIPTION	ANSI MH10.8.2 DI	GS1 Al
Combined 6-digit GS1 supplier identification and unique package identification assigned by the supplier	17S	n/e
Reserved (CAGE Code & Serial Number unique within CAGE) Combined Dun & Bradstreet company identification of the supplier followed by a unique package identification assigned by the supplier, in the format nnnn+nnn where a plus symbol (+) is used as a delimiter between the DUNS Number and unique package identification	18S 19S	n/e n/e
Traceability code for an entity assigned by the customer	20S	n/e
Combined U.S. D.O.T. Tire Manufacturer Plant Code and unique tire identification assigned by the supplier	21S	n/e
Electronic Serial Number for Cellular Mobile Telephones	22S	8002
Media Access Control (MAC) Address conforming with IEEE 802.11	23S	n/e
Reserved	24S	n/e
Identification of a party to a transaction as identified in 18V, followed by the supplier assigned serial number.	25S	n/e
Reserved	26S - 29S	n/e
Global Identifier Serialized for Trade (GIST)	n/e	252
Additional traceability code for an entity assigned by the supplier in addition to or different from the traceability code(s) provided by "S" or "1S"	30S	250
Beginning Serial Number for serial numbers in sequence	31S	n/e
Ending Serial Number for serial numbers in sequence	32S	n/e
Serial number of Next higher assembly	33S	n/e
Serial number or Part number of End Item	34S	n/e
Bumper Number (Used in Unit DOD Move)	35S	n/e
Pallet Identifier (Used for loaded 463L air pallets) Reserved	36S 37S – 49S	n/e n/e
The following five DIs can be used to provide for identification of entities within a single unit that is different than or in addition to identification provided by "S".	373 - 493	n/e
First Level (Supplier Assigned)	50S	n/e
Second Level (Supplier Assigned)	51S	n/e
Third Level (Supplier Assigned)	52S	n/e
Fourth Level (Supplier Assigned)	53S	n/e
Fifth Level (Supplier Assigned)	54S	n/e
	55S - 95S	n/e
96-bit EPC data structure (EPCglobal) Reserved	96S 97S – 999S	n/e n/e
	973 - 9993	II/e
CATEGORY 20: Traceability Number for Groups of Entities		
Traceability Number assigned by the Customer to identify/trace a unique group of entities (e.g., lot , batch , heat)	Т	n/e
Traceability Number assigned by the Supplier to identify/trace a unique group of entities (e.g., lot , batch , heat)	1T	10
Reserved	2T	n/e
Exclusive Assignment (U.S. EPA vehicle identification for emissions testing)	3Т	n/e
Reserved	4T - 19T	n/e
The following five DIs can be used to provide for identification of a group of entities, which is different than or in addition to identification provided by "T".		
First Level (Customer Assigned)	20T	n/e
Second Level (Customer Assigned)	21T	n/e

CATEGORY/DESCRIPTION	ANSI MH10.8.2	GS1
	DI	AI
Third Level (Customer Assigned)	22T	n/e
Fourth Level (Customer Assigned)	23T	n/e
Fifth Level (Customer Assigned)	24T	n/e
Identification of a party to a transaction as identified in 18V, followed by the supplier assigned traceability number.	25T	n/e
Reserved	26T - 29T	n/e
The following five DIs can be used to provide for identification of a group of entities, which is different than or in addition to identification provided by "1T".	201 201	
First Level (Supplier Assigned)	30T	n/e
Second Level (Supplier Assigned)	31T	n/e
Third Level (Supplier Assigned)	32T	n/e
Fourth Level (Supplier Assigned)	33T	n/e
Fifth Level (Supplier Assigned)	34T	n/e
Reserved	35T - 999T	n/e
CATEGORY 21: Reserved		
Reserved	U-4U	n/e
Specification of a postal service and associated process data in	50	n/e
accordance with UPU standard S25 data construct "Service Data"		
Reserved for Assignment for UPU needs in collaboration with ASC MH 10/SC 8/WG 2	6U – 14U	n/e
Specification of supplementary postal service and associated process data in accordance with UPU standard S25 data construct	15U	n/e
Reserved for Assignment for UPU needs in collaboration with ASC MH 10/SC 8/WG 2	16U – 54U	n/e
	5511	n/e
OCR Data Locator	55U 56U - 999U	n/e n/e
	55U 56U - 999U	n/e n/e
OCR Data Locator Reserved		
OCR Data Locator Reserved CATEGORY 22: Party To The Transaction	56U – 999U	n/e
OCR Data Locator Reserved CATEGORY 22: Party To The Transaction Supplier Code assigned by Customer	56U – 999U V	n/e n/e
OCR Data Locator Reserved CATEGORY 22: Party To The Transaction Supplier Code assigned by Customer Supplier Code assigned by Supplier	56U – 999U V 1V	n/e n/e n/e
OCR Data Locator Reserved CATEGORY 22: Party To The Transaction Supplier Code assigned by Customer Supplier Code assigned by Supplier Prior Assignment	56U – 999U V 1V 2V	n/e n/e n/e n/e
OCR Data Locator Reserved CATEGORY 22: Party To The Transaction Supplier Code assigned by Customer Supplier Code assigned by Supplier Prior Assignment Fabricator Code (GS1 Company Prefix) as assigned by the appropriate GS1 authority (Numbering organization)	56U – 999U V 1V 2V 3V	n/e n/e n/e
OCR Data Locator Reserved CATEGORY 22: Party To The Transaction Supplier Code assigned by Customer Supplier Code assigned by Supplier Prior Assignment Fabricator Code (GS1 Company Prefix) as assigned by the	56U – 999U V 1V 2V	n/e n/e n/e n/e
OCR Data Locator Reserved CATEGORY 22: Party To The Transaction Supplier Code assigned by Customer Supplier Code assigned by Supplier Prior Assignment Fabricator Code (GS1 Company Prefix) as assigned by the appropriate GS1 authority (Numbering organization) Carrier Identification Code assigned by an industry standard mutually defined by the Supplier, Carrier, and Customer	56U – 999U V 1V 2V 3V	n/e n/e n/e n/e n/e n/e
OCR Data Locator Reserved CATEGORY 22: Party To The Transaction Supplier Code assigned by Customer Supplier Code assigned by Supplier Prior Assignment Fabricator Code (GS1 Company Prefix) as assigned by the appropriate GS1 authority (Numbering organization) Carrier Identification Code assigned by an industry standard mutually defined by the Supplier, Carrier, and Customer Financial Institution Identification Code (mutually defined)	56U – 999U V 1V 2V 3V 4V 5V	n/e n/e n/e n/e n/e n/e n/e
OCR Data Locator Reserved CATEGORY 22: Party To The Transaction Supplier Code assigned by Customer Supplier Code assigned by Supplier Prior Assignment Fabricator Code (GS1 Company Prefix) as assigned by the appropriate GS1 authority (Numbering organization) Carrier Identification Code assigned by an industry standard mutually defined by the Supplier, Carrier, and Customer Financial Institution Identification Code (mutually defined) Manufacturer's identification code (mutually defined) Code assigned to a party which has financial liability for an entity or	56U – 999U V 1V 2V 3V 4V	n/e n/e n/e n/e n/e n/e
OCR Data Locator Reserved CATEGORY 22: Party To The Transaction Supplier Code assigned by Customer Supplier Code assigned by Supplier Prior Assignment Fabricator Code (GS1 Company Prefix) as assigned by the appropriate GS1 authority (Numbering organization) Carrier Identification Code assigned by an industry standard mutually defined by the Supplier, Carrier, and Customer Financial Institution Identification Code (mutually defined) Manufacturer's identification code (mutually defined) Code assigned to a party which has financial liability for an entity or group of entities (e.g., owner of inventory) (mutually defined)	56U - 999U V 1V 2V 3V 4V 5V 6V 7V	n/e n/e n/e n/e n/e n/e n/e n/e
OCR Data Locator Reserved CATEGORY 22: Party To The Transaction Supplier Code assigned by Customer Supplier Code assigned by Supplier Prior Assignment Fabricator Code (GS1 Company Prefix) as assigned by the appropriate GS1 authority (Numbering organization) Carrier Identification Code assigned by an industry standard mutually defined by the Supplier, Carrier, and Customer Financial Institution Identification Code (mutually defined) Manufacturer's identification code (mutually defined) Code assigned to a party which has financial liability for an entity or group of entities (e.g., owner of inventory) (mutually defined) Customer code assigned by the customer	56U – 999U V 1V 2V 3V 4V 5V 6V 7V 8V	n/e n/e n/e n/e n/e n/e n/e n/e n/e
OCR Data Locator Reserved CATEGORY 22: Party To The Transaction Supplier Code assigned by Customer Supplier Code assigned by Supplier Prior Assignment Fabricator Code (GS1 Company Prefix) as assigned by the appropriate GS1 authority (Numbering organization) Carrier Identification Code assigned by an industry standard mutually defined by the Supplier, Carrier, and Customer Financial Institution Identification Code (mutually defined) Manufacturer's identification code (mutually defined) Code assigned to a party which has financial liability for an entity or group of entities (e.g., owner of inventory) (mutually defined) Customer code assigned by the customer Customer code assigned by the supplier	56U - 999U V 1V 2V 3V 4V 5V 6V 7V 8V 9V	n/e n/e n/e n/e n/e n/e n/e n/e n/e
OCR Data Locator Reserved CATEGORY 22: Party To The Transaction Supplier Code assigned by Customer Supplier Code assigned by Supplier Prior Assignment Fabricator Code (GS1 Company Prefix) as assigned by the appropriate GS1 authority (Numbering organization) Carrier Identification Code assigned by an industry standard mutually defined by the Supplier, Carrier, and Customer Financial Institution Identification Code (mutually defined) Manufacturer's identification code (mutually defined) Code assigned to a party which has financial liability for an entity or group of entities (e.g., owner of inventory) (mutually defined) Customer code assigned by the customer Customer code assigned by the supplier Reserved	56U - 999U V 1V 2V 3V 4V 5V 6V 7V 8V 9V 10V	n/e n/e n/e n/e n/e n/e n/e n/e n/e n/e
OCR Data Locator Reserved CATEGORY 22: Party To The Transaction Supplier Code assigned by Customer Supplier Code assigned by Supplier Prior Assignment Fabricator Code (GS1 Company Prefix) as assigned by the appropriate GS1 authority (Numbering organization) Carrier Identification Code assigned by an industry standard mutually defined by the Supplier, Carrier, and Customer Financial Institution Identification Code (mutually defined) Manufacturer's identification code (mutually defined) Code assigned to a party which has financial liability for an entity or group of entities (e.g., owner of inventory) (mutually defined) Customer code assigned by the customer Customer code assigned by the supplier	56U - 999U V 1V 2V 3V 4V 5V 6V 7V 8V 9V	n/e n/e n/e n/e n/e n/e n/e n/e n/e
OCR Data Locator Reserved CATEGORY 22: Party To The Transaction Supplier Code assigned by Customer Supplier Code assigned by Supplier Prior Assignment Fabricator Code (GS1 Company Prefix) as assigned by the appropriate GS1 authority (Numbering organization) Carrier Identification Code assigned by an industry standard mutually defined by the Supplier, Carrier, and Customer Financial Institution Identification Code (mutually defined) Manufacturer's identification code (mutually defined) Code assigned to a party which has financial liability for an entity or group of entities (e.g., owner of inventory) (mutually defined) Customer code assigned by the customer Customer code assigned by the supplier Reserved Organization with budget responsibility for an entity, process, or procedure (e.g., shop, division, department)(internally assigned)	56U - 999U V 1V 2V 3V 4V 5V 6V 7V 8V 9V 10V	n/e n/e n/e n/e n/e n/e n/e n/e n/e n/e
OCR Data Locator Reserved CATEGORY 22: Party To The Transaction Supplier Code assigned by Customer Supplier Code assigned by Supplier Prior Assignment Fabricator Code (GS1 Company Prefix) as assigned by the appropriate GS1 authority (Numbering organization) Carrier Identification Code assigned by an industry standard mutually defined by the Supplier, Carrier, and Customer Financial Institution Identification Code (mutually defined) Manufacturer's identification code (mutually defined) Code assigned to a party which has financial liability for an entity or group of entities (e.g., owner of inventory) (mutually defined) Customer code assigned by the customer Customer code assigned by the supplier Reserved Organization with budget responsibility for an entity, process, or procedure (e.g., shop, division, department)(internally assigned) DUNS number identifying manufacturer	56U - 999U V 1V 2V 3V 4V 5V 6V 7V 8V 9V 10V 11V 12V	n/e n/e n/e n/e n/e n/e n/e n/e n/e n/e
OCR Data Locator Reserved CATEGORY 22: Party To The Transaction Supplier Code assigned by Customer Supplier Code assigned by Supplier Prior Assignment Fabricator Code (GS1 Company Prefix) as assigned by the appropriate GS1 authority (Numbering organization) Carrier Identification Code assigned by an industry standard mutually defined by the Supplier, Carrier, and Customer Financial Institution Identification Code (mutually defined) Manufacturer's identification code (mutually defined) Code assigned to a party which has financial liability for an entity or group of entities (e.g., owner of inventory) (mutually defined) Customer code assigned by the customer Customer code assigned by the supplier Reserved Organization with budget responsibility for an entity, process, or procedure (e.g., shop, division, department)(internally assigned) DUNS number identifying manufacturer DUNS number identifying supplier	56U - 999U V 1V 2V 3V 4V 5V 6V 7V 8V 9V 10V 11V 12V 13V	n/e n/e n/e n/e n/e n/e n/e n/e n/e n/e
OCR Data Locator Reserved CATEGORY 22: Party To The Transaction Supplier Code assigned by Customer Supplier Code assigned by Supplier Prior Assignment Fabricator Code (GS1 Company Prefix) as assigned by the appropriate GS1 authority (Numbering organization) Carrier Identification Code assigned by an industry standard mutually defined by the Supplier, Carrier, and Customer Financial Institution Identification Code (mutually defined) Manufacturer's identification code (mutually defined) Code assigned to a party which has financial liability for an entity or group of entities (e.g., owner of inventory) (mutually defined) Customer code assigned by the customer Customer code assigned by the supplier Reserved Organization with budget responsibility for an entity, process, or procedure (e.g., shop, division, department)(internally assigned) DUNS number identifying manufacturer DUNS number identifying supplier DUNS number identifying supplier	56U - 999U V 1V 2V 3V 4V 5V 6V 7V 8V 9V 10V 11V 11V 12V 13V 14V	n/e n/e n/e n/e n/e n/e n/e n/e n/e n/e
OCR Data Locator Reserved CATEGORY 22: Party To The Transaction Supplier Code assigned by Customer Supplier Code assigned by Supplier Prior Assignment Fabricator Code (GS1 Company Prefix) as assigned by the appropriate GS1 authority (Numbering organization) Carrier Identification Code assigned by an industry standard mutually defined by the Supplier, Carrier, and Customer Financial Institution Identification Code (mutually defined) Manufacturer's identification code (mutually defined) Code assigned to a party which has financial liability for an entity or group of entities (e.g., owner of inventory) (mutually defined) Customer code assigned by the customer Customer code assigned by the supplier Reserved Organization with budget responsibility for an entity, process, or procedure (e.g., shop, division, department)(internally assigned) DUNS number identifying manufacturer DUNS number identifying supplier DUNS number identifying customer Carrier-assigned shipper number	56U - 999U V 1V 2V 3V 4V 5V 6V 7V 8V 9V 10V 11V 11V 12V 13V 14V 15V	n/e n/e n/e n/e n/e n/e n/e n/e n/e n/e
OCR Data Locator Reserved CATEGORY 22: Party To The Transaction Supplier Code assigned by Customer Supplier Code assigned by Supplier Prior Assignment Fabricator Code (GS1 Company Prefix) as assigned by the appropriate GS1 authority (Numbering organization) Carrier Identification Code assigned by an industry standard mutually defined by the Supplier, Carrier, and Customer Financial Institution Identification Code (mutually defined) Manufacturer's identification code (mutually defined) Code assigned to a party which has financial liability for an entity or group of entities (e.g., owner of inventory) (mutually defined) Customer code assigned by the customer Customer code assigned by the supplier Reserved Organization with budget responsibility for an entity, process, or procedure (e.g., shop, division, department)(internally assigned) DUNS number identifying manufacturer DUNS number identifying supplier DUNS number identifying supplier	56U - 999U V 1V 2V 3V 4V 5V 6V 7V 8V 9V 10V 11V 11V 12V 13V 14V	n/e n/e n/e n/e n/e n/e n/e n/e n/e n/e

CATEGORY/DESCRIPTION	ANSI MH10.8.2 DI	GS1 Al
Identification of a party to a transaction in which the data format consists of two concatenated segments. The first segment is the unique code assigned to an issuing agency by NEN in accordance with ISO/IEC 15459, the second segment is a unique entity identification assigned in accordance with rules established by the issuing agency	18V	n/e
Specification of a party's role(s), in a transaction, consisting of one or more code values from EDIFACT Code List 3035 "Party Qualifier", separated by plus (+) characters (Never to be concatenated with other DIs in a linear symbol or other media where the concatenation	19V	n/e
character is a plus (+) character) Identification of a party to a transaction as identified in 18V, followed by a plus (+) character followed by one or more code values from EDIFACT Code List 3035 "Party Qualifier", separated by plus (+) characters (Never to be concatenated with other DIs in a linear symbol or other media where the concatenation character is a plus (+) character)	20V	n/e
Identification of a party to a transaction as identified in 18V, followed by the organizational sub-unit of and assigned by the party identified in 18V, e.g., 21V IAC CIN OSU, where the IAC is the issuing agency code assigned by the ISO 15459-2 Registration Authority, the CIN is the company identification code assigned by the IAC, and the OSU is the organizational sub-unit identification assigned by the CIN.	21V	n/e
Reserved	22V – 999V	n/e
Reference to Source Entity	n/e	251
CATEGORY 23: Activity Reference		
Work Order Number (e.g., "Production Paper") (internally assigned)	W	n/e
Operation Sequence Number	1W	n/e
Operation Code/Work Code - the type of work to be performed (internally assigned or mutually defined)	2W	n/e
Combined Work Order Number and Operation Sequence Number in the format nnn+nnn where a plus symbol (+) is used as a delimiter between the Work Order Number and the Operation Sequence Number	3W	n/e
Status Code (internally assigned or mutually defined)	4W	n/e
Work Unit Code – identifies system, subsystem, assembly, component etc. on which maintenance is performed	5W	n/e
Nomenclature – (internally assigned or mutually defined)	6W	n/e
Reserved	7W – 9W	n/e
Form Control Number – Preprinted control number on forms	10W	n/e
Quality Assurance Inspector – Last Name	11W	n/e
Telephone number of person completing the form	12W	n/e
Reserved	13W – 999W	n/e
CATEGORY 24: Reserved		
Reserved	X - 999X	n/e
CATEGORY 25: Internal Applications		

CATEGORY/DESCRIPTION	ANSI MH10.8.2 DI	GS1 Al
CATEGORY 26: Mutually Defined	_	
Mutually Defined between Customer and Supplier	Z	n/e
Mutually Defined between Carrier and Supplier	1Z	n/e
Mutually Defined between Customer and Carrier	2Z	n/e
Free Text	3Z	n/e
Mutually Defined between Carrier and Trading Partner	4Z	n/e
Reserved	5Z - 9Z	n/e
Structured Free Text (Header Data)	10Z	n/e
Structured Free Text (Line 1-89 Data)	11Z - 99Z	n/e
Reserved	100Z - 999Z	n/e

SECTION IV MAPPING GS1 Als to ANS MH10.8.2 DIs

MAPPING GS1 Als to ANSI MH10.8.2 DIs

AI	Data Content	Format
00	SSCC-18 (f.k.a. Serial Shipping Container Code)	J, 1J, 2J, 3J,
00		4J, 8S
01	Global Trade Item Number (GTIN) (f.k.a. SCC-14)	8P
02	GTIN of trade items contained in a logistic unit (Must be used with AI 37)	n/e
10	Batch or Lot Number	1T
11 (*)	Production Date (YYMMDD)	5D405
12 (*)	Due Date (YYMMDD)	5D013
13 (*)	Packaging Date (YYMMDD)	n/e
15 (*)	Minimum Durability Date (YYMMDD) (f.k.a Best Before / Quality)	n/e
17 (*)	Maximum Durability Date (YYMMDD) (f.k.a Use By / Safety)	5D036
20	Product Variant	n/e
21	Serial Number	S
22	HIBCC - Quantity, Date, Batch, and Link	n/e
240	Additional Product Identification Assigned by the Manufacturer	30P
241	Customer Part Number	Р
250	Secondary Serial Number	30S
251	Reference to Source Entity	n/e
253	Global Document Type Identifier	n/e
254	GLN Extension component	n/e
30	Variable Count (f.k.a. Quantity)	Q
310 (***)	Net Weight, Kilograms	7Q58
311 (***)	Length or 1st Dimension Trade, Meters	7QMR
312 (***)	Width, Diameter, or 2nd Dimension, Trade, Meters	7QMR
313 (***)	Depth, Thickness, Height or 3rd Dimension, Trade, Meters	7QMR
314 (***)	Area, Trade, Square Meters	7QSM
315 (***)	Net Volume, Liters	7QLT
316 (***)	Net Volume, Cubic Meters	7QCR
320 (***)	Net Weight, Pounds	7QPN
321 (***)	Length or 1st Dimension, Trade, Inches	7QED
322 (***)	Length or 1st Dimension, Trade, Feet	7QEZ
323 (***)	Length or 1st Dimension, Trade, Yards	7QYD
324 (***)	Width, Diameter, or 2nd Dimension, Trade, Inches	7QED
325 (***)	Width, Diameter, or 2nd Dimension, Trade, Feet	7QEZ
326 (***)	Width, Diameter, or 2nd Dimension, Trade, Yards	7QYD
327 (***)	Depth, Thickness, Height or 3rd Dimension, Trade, Inches	7QED
328 (***)	Depth, Thickness, Height or 3rd Dimension, Trade, Feet	7QEZ
329 (***)	Depth, Thickness, Height or 3rd Dimension, Trade, Yards	7QYD
330 (***)	Gross Weight, Kilograms	7QGT
331 (***)	Length or 1st Dimension, Meters Logistics	7QMR
332 (***)	Width, Diameter, or 2nd Dimension, Meters Logistics	7QMR
333 (***)	Depth, Thickness, Height or 3rd Dimension, Meters, Logistics	7QMR
334 (***)	Area, Square Meters Logistics	7QSM
335 (***)	Gross Volume, Liters	7QLT
336 (***)	Gross Volume, Cubic Meters	7QCO
337 (***)	Kilograms per Square Meter	7QKM

AI	Data Content	Format
340 (***)	Gross Weight, Pounds	7QPG
341 (***)	Length or 1st Dimension, Inches Logistics	7QED
342 (***)	Length or 1st Dimension, Feet Logistics	7QEZ
343 (***)	Length or 1st Dimension, Yards Logistics	7QGY
344 (***)	Width, Diameter, or 2nd Dimension, Inches Logistics	7QED
345 (***)	Width, Diameter, or 2nd Dimension, Feet Logistics	7QEZ
346 (***)	Width, Diameter, or 2nd Dimension, Yards Logistics	7QGY
347 (***)	Depth, Thickness, Height or 3rd Dimension, Inches, Logistics	7QED
348 (***)	Depth, Thickness, Height or 3rd Dimension, Feet, Logistics	7QEZ
349 (***)	Depth, Thickness, Height or 3rd Dimension, Yards, Logistics	7QGY
350 (***)	Area, Trade, Square Inches	7QSI
351 (***)	Area, Trade, Square Feet	7QSF
352 (***)	Area, Trade, Square Yards	7QSY
353 (***)	Area, Square Inches, Logistics	7QSI
354 (***)	Area, Square Feet, Logistics	7QSF
355 (***)	Area, Square Yards, Logistics	7QSY
356 (***)	Net Weight, Troy Ounces	7QTO
357 (***)	Net Volume, Ounces (U.S.)	7QOZ
360 (***)	Net Volume, Quarts	7QQT
361 (***)	Net Volume, Gallons (U.S.)	7QGA
362 (***)	Gross Volume, Quarts	7QQT
363 (***)	Gross Volume, Gallons (U.S.)	7QGN
364 (***)	Net Volume, Cubic Inches	7QCl
365 (***)	Net Volume, Cubic Feet	7QCF
366 (***)	Net Volume, Cubic Yards	7QCY
367 (***)	Gross Volume, Cubic Inches	7QCl
368 (***)	Gross Volume, Cubic Feet	7QCF
369 (***)	Gross Volume, Cubic Yards	7QCY
37	Count of Trade Items Contained in a Logistics Unit (For Use with AI 02 Only)	n/e
390 (***)	Amount Payable – single monetary area	n/e
391 (***)	Amount Payable – with ISO currency code	n/e
392 (***)	Amount Payable for a Variable Measure Trade Item – single monetary area	n/e
393 (***)	Amount Payable for a Variable Measure Trade Item – with ISO currency code	n/e
+400	Customer's Purchase Order Number	K
401	Consignment Number	n/e
402	Shipment Identification Number	2K
403	Routing Code	6L
410	"Ship To" (Deliver To) - GS1 Global Location Number	2L
411	"Bill To" (Invoice To) - GS1 Global Location Number	n/e
412	"Purchased From" - GS1 Global Location Number	n/e
413	"Ship For - Deliver For - Forward To" GS1 Global Location Number	5L
414	Identification of a Physical Location, GS1 Global Location Number	n/e
415	GS1 Global Location Number of the Invoicing Party	n/e
420	Ship To (Deliver To) Postal Code Within a Single Postal Authority	52L
421	Ship To (Deliver To) Postal Code With 3-digit ISO Country Code Prefix	55L
422	Country of Origin of a Trade Item	4L

AI	Data Content	Format		
423	Country of Initial Processing	n/e		
424	Country of Processing	n/e		
425	Country of Disassembly n/e			
426	Country covering full process chain	n/e		
7001	NATO Stock Number (NSN)	Ν		
7002	UN/ECE Meat Carcasses and Cuts Classification	n/e		
703(s)	Approval number of processor with ISO country code	n/e		
8001	Roll products - Width, Length, Core Diameter, Direction, & Splices	n/e		
8002	Electronic Serial Number for Cellular Mobile Telephones	22S		
8003	Global Returnable Asset Identifier	25B		
8004	Global Individual Asset Identifier	1B, 5B		
8005	Price Per Unit of Measure	n/e		
8006	Identification of the Component of an Article	19P		
8007	International Bank Account Number	n/e		
8008	Date and Time of Production	n/e		
8018	Global Service Relation Number n/e			
8020	Payment Slip Reference Number n/e			
8100	Coupon Extended Code - Number System Character and Offer n/e			
8101	Coupon Extended Code - Number System Character, Offer, and End of n/e Offer			
8102	Coupon Extended Code - Number System Character preceded by zero	n/e		
90	ANSI MH10.8.2 Data Identifiers (Information Agreed Between Trading Partners)	ANS MH10.8.2 DIs		
91	Intra-Company Internal	Y		
92	Intra-Company Internal	Y		
93	Intra-Company Internal	Y		
94	Internal	Y		
95	Internal - Carriers	3K, 6K, 12K, 1Z, 2Z, 4Z		
96	Internal - Carriers	3K, 6K, 12K, 1Z, 2Z, 4Z		
97	Intra-Company Internal	Y		
98	Intra-Company Internal	Y		
99	Internal	Y		
: To indi	cate only year and month, DD can be filled with "00"			

(*) : (**) : (***): (+) :

To indicate only year and month, DD can be filled with "00" Plus one digit for length indication Plus one digit for decimal point indication The definition of 400 has been modified to allow order, release, and line numbers, at the discretion of the issuer

Date Value Representation:

а	alphabetic characters (chars)	n	numeric chars	an	alphanumeric chars
n3	3 numeric chars, fixed length	an3	3 alpha-numeric chars, fixed length	n3	up to 3 numeric chars
a3	up to 3 alphabetic chars	an3	up to 3 alphanumeric chars	S	sequence in the process

SECTION V SHORT TITLES

The Short Titles listed herein are for guidance of developing standards. This list is not comprehensive or mandatory.

SHORT TITLES

When printing bar codes (or 2D symbols) it is recommended that each bar code have human readable text printed above the bar code (or adjacent to each 2D symbol) to identify what type of data is contained in the bar code (or 2D symbol). This is called a "short title" and should resemble one of the formats shown in Figure V-1.

Figure V-1: Examples of recommended formats for printing short titles				
(S) Serial # 1234567	Serial # 123456			
Bar code contains: S1234567	Bar code contains: S1234567			
(13V) DUNS SPLR ID 987654321	DUNS SPLR ID (13v) 987654321			
Bar code contains: 13V987654321	Bar code contains: 13V987654321			

This Section lists the recommended short titles for some of the most common data identifiers.

The Short Titles listed herein are for guidance of developing standards. This list is not comprehensive or mandatory.

v06a

SECTION V.A ANSI MH10.8.2 DI SHORT TITLES

(the following list is not a complete list of all identifiers)

DI	SHORT TITLE	Description
В	CONT TYPE	Container type
1B	CONT ID	Returnable container identification code
С	PART # Cont.	Continuation of an Item Code
D	DATE	Date
14D	EXP DATE	Expiration Date (YYYYMMDD)
16D	PROD DATE	Production Date (YYYYMMDD)
J	LIC PLATE	Unique license plate number
1J	LIC PLATE-UNIT	Unique license plate assigned to a transport unit which is the lowest level of packaging, the unbreakable unit.
2J	LIC PLATE-MULTI	Unique license plate assigned to a transport unit which contains multiple packages.
K	CUST PO #	Order number assigned by Customer
1K	SPLR ORDER #	Order number assigned by Supplier
2K	SPLR SHIP ID	Shipment Identification Code assigned by Supplier/Shipper
3K	BOL/WB	Bill of Landing/Waybill Code assigned by Carrier
4K	CUST LINE	Line number of the order assigned by Customer
5K	CUST REL	Reference number assigned by the Customer to identify a Shipment Authorization (Release) against an established Purchase Order
6K	CARRIER PRO	PRO # Assigned by Carrier
14K	PO = LINE	Combined Order Number and Line Number in the format nnn=nnn where a plus symbol (+) is used as a delimiter between the Order Number and Line Number.
15K	PULL SIG	Pull signal (e.g. KANBAN) Number
16K	DELINS	DELINS Number. Code assigned to identify a document containing delivery information.
1L	LOC	Location
4L	ORIGIN or COO	Country of Origin, two-character ISO 3166 country code
51L	FROM POST CODE	"Ship From;" – Location code defined by a postal authority (e.g., 5-digit and 9 digit ZIP codes identifying U.S. locations or 6- character postal codes identifying Canadian locations.
52L	TO POST CODE	"Ship To;" – Location code defined by a postal authority (e.g., 5- digit and 9 digit ZIP codes identifying U.S. locations or 6- character postal codes identifying Canadian locations.
54L	FROM POST CODE + CTRY	" Ship To;" – Location code defined by a postal authority (e.g., 5-digit and 9 digit ZIP codes identifying U.S. locations or 6- character postal codes identifying United Kingdom locations) followed by two character ISO 3166 country code (e.g. US or GB)
55L	TO POST CODE+CTRY	" Ship From;" – Location code defined by a postal authority (e.g., 5-digit and 9 digit ZIP codes identifying U.S. locations or 6-character postal codes identifying United Kingdom locations) followed by two character ISO 3166 country code (e.g. US or GB)
Р	CUST PART or CUST ITEM	Item Identification Code assigned by Customer
1P	SPLR PART or SPLR ITEM	Item Identification Code assigned by Supplier

2P EC # Code assigned to specify the revision level for an Item (e.g., engineering change) 10P HAZMAT CODE Hazardous Material Code as defined by ANS X12.3 (Version 003000) in the format Data Element 208 (1-character code qualifier) followed by Data Element 209 (Hazardous Material Code) 11P CLEI 10-character CLEI Code for telecommunications equipment Q QTY Quantity, Number of Pieces or Amount (numeric only) (unit of measure and significance mutually defined) 20 ACT WT Actual Weight (numeric only) 20 ACT WT Actual Weight (numeric only) 30 U/M Unit of Measure, as defined by the two character ANS X12.3 (Version 00300) Data Element Number 355 Unit of Measurement Code 70 QTY + U/M Quantity, Amount, or Number of Pieces in the format: Quantity followed by the two character ANS X12.3 (Version 003000) Data Element Number 355 Unit of Measurement?). 13Q N OF X # of # ('this is the nth piece of x pieces in this shipment?). 13Q N OF X # of # ('this is the nth piece of x pieces in this shipment?). 13Q N OF X # of # ('this is the nth piece of x pieces in this shipment?). 2 SERIAL Serial number or code assigned by the Supplier to an entity for its iffetime, (e.g.,) computer serial number, tractability number, contract tool identification assigned by the Supplier to mas	DI	SHORT TITLE	Description	
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	14V	DUNS CUST ID		
15V SHIPPER Carrier assigned shipper number	15V	SHIPPER		

SECTION V.B GS1 AI SHORT TITLES

(the following list is not a complete list of all identifiers)

SHORT TITLE	AI	Description	
SSCC	00	Serial Shipping Container Code	
GTIN	01	Global Trade Item Number	
CONTENT	02	GTIN of trade items contained in a logistic unit	
BATCH/LOT	10	Batch or Lot number	
PROD DATE	11	Production Date (YYMMDD) (To indicate only month and year - DD can be filled with "00"	
DUE DATE	12	Due Date (YYMMDD) (To indicate only month and year - DD can be filled with "00"	
PACK DATE	13	Packaging Date (YYMMDD) (To indicate only month and year - DD can be filled with "00"	
SELL BY or BEST BEFORE	15	Minimum Durability Date (YYMMDD) (Quality) (To indicate only month and year - DD can be filled with "00")	
USE BY or EXPIRY	17	Maximum Durability Date (YYMMDD) (Safety) (To indicate only month and year - DD can be filled with "00")	
VARIANT	20	Product Variant	
SERIAL	21	Serial Number	
QTY/DATE/BATCH	22	HIBCC - Quantity, Date, Batch, and Link	
ADDTIONAL ID	240	Additional Product Identification assigned by the Manufacturer	
CUST. PART NO.	241	Customer Part Number	
SECONDARY SERIAL	250	Secondary Serial Number	
VAR. COUNT	30	Variable Count	
NET WEIGHT (kg)	310*	Net Weight, Kilograms (Plus one digit for decimal point indication)	
LENGTH (m)	311*	Length or 1st dimension, Meters (Plus one digit for decimal point indication)	
WIDTH (m)	312*	Width, Diameter, or 2nd dimension, Meters (Plus one digit for decimal point indication)	
DEPTH (m)	313*	Depth, Thickness, Height, or 3rd dimension, Meters (Plus one digit for decimal point indication)	
AREA (m ²)	314*	Area, Square Meters (Plus one digit for decimal point indication)	
NET VOLUME (I)	315*	Volume, Liters (Plus one digit for decimal point indication)	
NET VOLUME (m ³)	316*	Volume, Cubic Meters (Plus one digit for decimal point indication)	
NET WEIGHT (Ib)	320*	Net Weight, Pounds (Plus one digit for decimal point indication)	
LENGTH (i)	321*	Length or 1st dimension, Inches (Plus one digit for decimal point indication)	
WIDTH (i)	324*	Width, Diameter, or 2nd dimension, Inches (Plus one digit for decimal point indication)	
HEIGHT (i)	327*	Depth, Thickness, Height, or 3rd dimension, Inches (Plus one digit for decimal point indication)	
GROSS WEIGHT (kg)	330*	Gross Weight, Kilograms (Plus one digit for decimal point indication)	
GROSS WEIGHT (lb)	340*	Gross Weight, Pounds (Plus one digit for decimal point indication)	
LENGTH (i), log	341*	Length or 1st dimension, Inches (Plus one digit for decimal point indication), Logistics	

SHORT TITLE AI Des		Description	
WIDTH (i), log	344*	Width, Diameter, or 2 nd dimension, Inches (Plus one digit for decimal point indication), Logistics	
HEIGHT (i), log	347*	Depth, Thickness, Height, or 3rd dimension, Inches (Plus one digit for decimal point indication), Logistics	
AREA (i ²)	350*	Area, Square Inches (Plus one digit for decimal point indication)	
AREA (i ²), log	353*	Area, Square Inches Logistics (Plus one digit for decimal point	
VOLUME (q)	360*	Volume, Quarts (Plus one digit for decimal point indication)	
GROSS VOLUME (q)	362*	Gross Volume, Quarts (Plus one digit for decimal point indication)	
VOLUME (i ³)	364*	Volume, Cubic Inches (Plus one digit for decimal point indication)	
GROSS VOLUME (i ³)	367*	Gross Volume, Cubic Inches (Plus one digit for decimal point indication)	
QÚANTITY	37	Quantity (for use with 02)	
ORDER NUMBER	400	Customer's Purchase Order Number	
SHIPMENT NO.	401	Shipment Identification Number	
SHIP TO LOC	410	Ship To: (Deliver To) Location Code Using GS1-13	
SHIP TO POST	420	Ship To: (Deliver To) Postal Code Within a Single Postal Authority	
SHIP TO POST	421	Ship To: (Deliver To) Postal Code Within 3-digit ISO Country Code Prefix	
NSN	7001	NATO Stock Number	
DIMENSIONS	8001	Roll Products - Width, Length, Core Diameter, Direction & Splices	
GRAI	8003	Global Returnable Asset Identifier	
GIAI	8004	Global Individual Asset Identifier	

SECTION VI

HIERARCHICAL LEVELS - Data Identifier "F"

When the Data Identifier "F" is used in Data Identifier looping structures the format shall follow the format defined in this Section.

As the application of automatic data capture (ADC) storage media became more sophisticated it became possible to store more item data about more items in a single medium. Data capacities increased from the single data element linear bar code to concatenated symbols to two-dimensional symbols to high capacity RF tags to contact memory buttons to optical memory cards and micro compact disks. It became possible to store information about multiple orders on a shipment, multiple containers or pallets per order, multiple part numbers per order, multiple containers per part number, and multiple serial numbers per part number.

As this sophistication increased so increased the need to provide a structure for such data in order to ensure that there was an unambiguous relationship of a serial number (or lot number / expiration date) all of the way up to the order and shipment level. It would have been possible to create a unique structure for ADC media. However, the world of electronic data interchange (EDI) has faced this issue for many years. After careful analysis ASC MH 10/SC 8 decided to follow the lessons learned from the EDI community, namely the creation a structured looping of data.

The X12 EDI Ship Notice/Manifest (Transaction 856) is a hierarchical document, that is, the electronic document which can:

- Represent one or several shipments in a single Ship Notice/Manifest,
- Each shipment can consist of one or several orders in a single shipment,
- Each order can consist of one or several pallets (tares) in a single order,
- Each pallet can consist of one or several cartons (packs) in a single pallet,
- Each carton can consist of one or several inner packs (sub-packs) in a single carton,
- Each sub-pack can consist of one or several items in a single sub-pack, and
- Each item can consist of one or several components in a single item.

Data should be encoded at the hierarchical level to which it logically applies. For example, shipment data at the shipment level, order information at the order level, tare (pallet) information at the tare level, carton information at the carton level, etc. To avoid unnecessary data redundancy it may be preferable to encode data at a higher level. For example, if a shipment involves only one order, order information could be transmitted at the shipment level. Also, if the only package information needed is the label serial number (license plate) and there is one per item then the package data can be specified at the item level. As a general rule data can be specified at a higher level as long as it does not create confusion with similar data at the same level. Weights dimensions, quantities, and license plates are examples of data which are used in multiple levels and could create confusion if levels are combined.

The following example depicts the detail area of the Ship Notice/ Manifest transaction in the traditional manner.

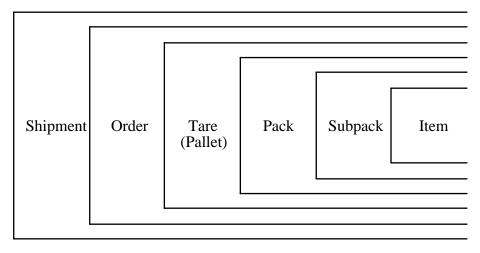


Figure VI – 1 – Typical X12 856 Nested Packaging Levels

The purpose of such structure looping is to facilitate the identification of dependencies among the content of related groups of data segments. Several methods existed, however, the SC 8 committee settled on the use of hierarchical structures similar to the ASC X12 EDI 856 Ship Notice/Manifest transaction.

Within the X12 856 transaction set the "HL segment" is comprised of four data elements (DE). These are

DE Reference	DE Identifier	DE Name	DE Requirement	DE Type	DE Length (Min/Max)
HL01	628	Hierarchical ID Number	М	AN ¹	1/12
HL02	734	Hierarchical Parent ID Number	0	AN	1/12
HL03	735	Hierarchical Level Code	М	1D ²	1/2
HL04	736	Hierarchical Child Code	0	ID	1/1
Note ¹ – A string data element is a sequence of any characters from the character set and contains at least one non-space character. The significant characters shall be left justified. Leading spaces, when they occur, are presumed to be significant characters. In the actual data stream, trailing spaces should be suppressed. The representation for this data element is AN. Note ² – An identifier data element always contains a unique value from a single, predefined list of values that is maintained in ASC X12 or some other body recognized by ASC X12 and identified by a reference in Appendix A of X12.3 Data Element Dictionary. Trailing spaces should be suppressed. The representation for this data element type is ID.					

The X12 856 HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data and packaging data to line-item data. The 856 HL segment defines a top-down/left-right ordered structure.

HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.

HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.

HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

HL04 indicates whether or not there are subordinate (or child) segments related to the current HL segment. ("0" indicates that there are no subordinate segments; "1" indicates that there are subordinate segments)

It would be possible to encode an entire EDI transaction into a machine-readable medium, however there is substantial overhead within EDI to facilitate the routing of the message. Since, in the case of machine-readable media, the medium accompanies the routed item the overhead is unnecessary information. And while the data carrying capacity of machine-readable media has increased substantially, wherever a systems designer can reduce the number of encoded characters, the better is the design.

ASC MH 10/SC 8 took the basic Hierarchical Level (HL) structure and made two modifications. Both involved the variable length nature of the EDI HL with each of the data elements separated by a data element separator versus a machine-readable media requirement for defined lengths and short fields. Since the committee did not wish to use separator characters, because of increasing the length of the field, fixed length data elements were used where ever possible. Further, the length of the Hierarchical ID Number was fixed at two (2). With the character set of 0-9 and A-Z, a length of 2 characters yields 1,296 permutations. Ninety-nine (99) and even thirty-six (36) permutations were considered ample in most cases, however several real-life examples of different parts with associated serial numbers caused the ASC MH 10/SC 8 to go to a second character position. The Hierarchical Child Code identifier and the Hierarchical Level Code identifier were swapped positionally since the Hierarchical Level Code was variable length. Placing the variable length field at the end of the composite field provided unambiguous meaning to each of the sub-fields.

This yielded the format for the Hierarchical Level Data Identifier "F". The purpose of Data Identifier "F" is to identify dependencies among the content of hierarchically related groups of data segments. The structure of this DI is as follows with all parts required:

Part	String (AN) or Identifier (ID)	Length
Hierarchical ID Number	AN	2 ¹
Hierarchical Parent ID Number	AN	2 ¹
Hierarchical Child Code	ID	1
Hierarchical Level Code	ID	1/2

Table VI – 2 – ANS MH10.8.2 Data Identifier	"F" Structure
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Note¹ – With the character set of 0-9 and A-Z, a length of 2 characters yields 1,296 permutations

While the complete set of Hierarchical Level Code identifiers can be found in ANS X12, Data Element 735, the following represent what ASC MH 10/SC 8 considers to be the most commonly used identifiers:

Level Identifier		Description	
Shipment	Shipment S Data that applies to the whole shipment, such as bill of I number, lading quantity, supplier code, etc.		
Order O Data related to the sender's order and the associated receiver's original purchase order.		Data related to the sender's order and the associated receiver's original purchase order.	
TareTThe tare level is used to identify pallets. If there are no identifiable pallets, this level may be omitted.		The tare level is used to identify pallets. If there are no identifiable pallets, this level may be omitted.	
Pack P item is shipped, e.g., label ser		The pack level is used to identify the cartons within which the item is shipped, e.g., label serial numbers. In most cases there will be some sort of packs.	
Sub-pack Q pack level. Note that this level is only used whe		Data related to a grouping of identifiable packages within the pack level. Note that this level is only used when the inner pack has identifiable numbers for each inner pack.	
Item	<u> </u>	I Stock keeping unit (SKU) identification data.	
Component	Component F Data related to the manufacturer's component		
Serial # X Data related to the manufacturer's serial number		Data related to the manufacturer's serial number	

Table VI – 3 – Commonly Used Hierarchical Level Codes

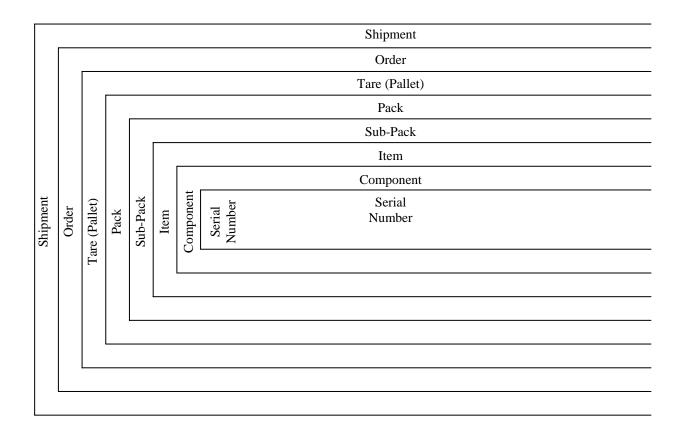


Figure VI – 2 – Typical MH 10/SC 8 Nested Packaging Levels

Consequently, for machine-readable media the structure "F08041P" would mean:

- "F" Data Identifier
- 08 Level of this hierarchy, e.g., a case on a pallet
- 04 Level of the parent hierarchy, e.g., the pallet
- 1 Yes, there are children to the case
- P Pack

Consider the following structure:

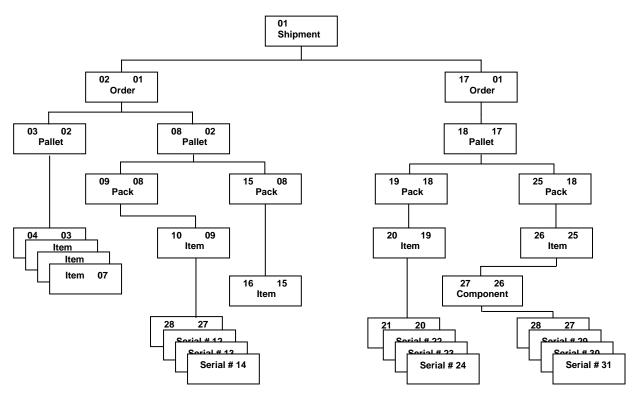


Figure VI – 3 – Hierarchical Levels

Using DI "F" the data stream would be as follows:

[)> ${}^{R}_{s}06{}^{G}_{s}$ F01001S ${}^{G}_{s}$ 2QShipment01 ${}^{G}_{s}$ F020110 ${}^{G}_{s}$ KOrder02 ${}^{G}_{s}$ F03021T ${}^{G}_{s}$ JUN043325711Pallet03 ${}^{G}_{s}$ 25PUN043325711Item04 ${}^{G}_{s}$ 25PUN043325711Item05 ${}^{G}_{s}$ 25PUN043325711Item06 ${}^{G}_{s}$ 25PUN043325711Item07 ${}^{G}_{s}$ 25PUN043325711Item07 ${}^{G}_{s}$ F08021T ${}^{G}_{s}$ JUN043325711Pallet08 ${}^{G}_{s}$ F09081P ${}^{G}_{s}$ JUN043325711Pallet08 ${}^{G}_{s}$ F09081P ${}^{G}_{s}$ JUN043325711Pallet08 ${}^{G}_{s}$ F100911 ${}^{G}_{s}$ 25PUN043325711Item10 ${}^{G}_{s}$	$\begin{array}{l} {\sf F11100X^G}_{\rm S} \\ {\sf 25SUN043325711Serial11^G}_{\rm S} \\ {\sf 25SUN043325711Serial12^G}_{\rm S} \\ {\sf 25SUN043325711Serial13^G}_{\rm S} \\ {\sf 25SUN043325711Serial14^G}_{\rm S} \\ {\sf F15081P^G}_{\rm S} \\ {\sf JUN043325711Pack15^G}_{\rm S} \\ {\sf F16150I^G}_{\rm S} \\ {\sf 25PUN043325711Item16^G}_{\rm S} \\ {\sf F170110^G}_{\rm S} \\ {\sf KOrder17^G}_{\rm S} \\ {\sf F18171T^G}_{\rm S} \\ {\sf JUN043325711Pallet17^G}_{\rm S} \\ {\sf F19181P^G}_{\rm S} \\ {\sf JUN043325711Pack19^G}_{\rm S} \\ {\sf F20191I^G}_{\rm S} \\ {\sf 25PUN043325711Item20^G}_{\rm S} \\ \end{array}$	$\begin{array}{l} {\sf F21200X^G}_{\rm s} \\ {\sf 25SUN043325711Serial21^G}_{\rm s} \\ {\sf 25SUN043325711Serial23^G}_{\rm s} \\ {\sf 25SUN043325711Serial23^G}_{\rm s} \\ {\sf 25SUN043325711Serial44^G}_{\rm s} \\ {\sf F25181P^G}_{\rm s} \\ {\sf JUN043325711Pack25^G}_{\rm s} \\ {\sf F262511^G}_{\rm s} \\ {\sf 25PUN043325711Item26^G}_{\rm s} \\ {\sf F27261F^G}_{\rm s} \\ {\sf 25PUN043325711Comp27^G}_{\rm s} \\ {\sf F28270X^G}_{\rm s} \\ {\sf 25SUN043325711Serial28^G}_{\rm s} \\ {\sf 25SUN043325711Serial29^G}_{\rm s} \\ {\sf 25SUN043325711Serial29^G}_{\rm s} \\ {\sf 25SUN043325711Serial30^G}_{\rm s} \\ {\sf 25SUN043325711Serial31^R}_{\rm s}^{\rm E}_{\rm OT} \\ \end{array}$
--	---	--

Table VI – 4 – Reducing Figure VI – 3 to a Data Stream Using DI "F"

Another example from the telecommunication industry. Presume the following EDI data:

EDI DATA	EXPLANATION		
ST~856~00000001	ASN Transaction Set - Transaction Set Control #000000001		
BSN~00~000002~20010207~1001	Original Ship Notice #000002Created 02/07/01 at 10:01 am		
DTM~011~20010207	Shipped on 2/07/01		
HL~001~~S	Hierarchical Segment #1 - Shipment Level		
TD5~~2~HMES	Shipped via USF Holland		
REF~BM~104462	Bill of Lading = 104462		
REF~CN~6783222	Carrier Pro # = 6783222		
NI~ST~SBC	Ship to Name		
N3~1700 HAZEL DELL RD	Ship to Address		
N4~SPRINGFIELD~IL~627035258	Ship to City, State, Zip Code (9 digits)		
HL~002~001~O	Hierarchical Segment #2- Order Level Subordinate to HL001		
PRF~AB~347554	P.O. Number = AB347554		
REF~VN~V11234345	Supplier's Order No. = V11234345		
REF~IV,A00001	Invoice No. A00001		
REF~PK~B12456	Packing List No. B12456		
HL~003~002~I	Hierarchical Segment #3, Item Level Subordinate to HL002		
LIN~0001~IN~102421930	SBC's Product Identifier = 102421930		
SN1~001~600~FT	Total qty. shipped = 600 ft		
PRF~AB347554~~~0001	P.O. Number = AB34755 - Item = 0001		

EDI DATA	EXPLANATION		
CLD~02~600	Number of reels = 2 Number of units shipped on reels = 600 (feet as in SN103)		
REF~LS~ABCD+40000	3S Bar Code Label = ABCD+40000		
REF~SE~AS23D145	Cable Reel Serial # = AS23D145		
REF~MR~EEE	Cable Reel Type = EEE		
REF~LS~ABCD+40001	3S Bar Code Label = ABCD+40001		
REF~SE~AS23D146	Cable Reel Serial # = AS23D146		
REF~MR~EEE	Cable Reel Type = EEE		
HL~004~002~I	Hierarchical Segment #4 - Item Level Subordinate to HL002		
LIN~0002~VN~TLT395	Vendor Part #TLT395		
SN1~002~2~EA	Total qty. shipped = 2EA		
PRF~AB347554~~~~0003	P.O. Number = AB34755, Item = 0003		
CLD~02~2	Number of containers = 2 Number of units shipped in containers = 2		
REF~LS~ABCD+40002	3S Bar Code Label = ABCD+40002		
REF~LS~ABCD+40003	3S Bar Code Label = ABCD+40003		
CTT~4~602	HL Segments = 4		
	Total Shipped Quantities = 602		
SE~35~00000001	Segments = 35 Transaction Set Control # = 000000001		

X12 856 EDI Data	Explanation	Data Identifier Data
DTM~011~20010207	Shipped on 2/07/01	5D010207011
HL~001~~S	Hierarchical Segment #1-Shipment Level	F01001S
TD5~~2~HMES	Shipped via USF Holland	(See Pro #)
REF~BM~104462	Bill of Lading = 104462	3K104462
REF~CN~6783222	Carrier Pro # = 6783222	12KHMES6783222
NI~ST~SBC	Ship to Name	NI~ST~SBC
N3~1700 HAZEL DELL RD	Ship to Address	N3~1700 HAZEL DELL RD
N4~SPRINGFIELD~IL~ 627035258	Ship to City, State, Zip Code (9 digits)	N4~SPRINGFIELD~IL~ 627035258
HL~002~001~O	Hierarchical Segment #2- Order Level Subordinate to HL001	F02011O
PRF~AB~347554	P.O. Number = AB347554	KAB347554
REF~VN~V11234345	Supplier's Order No. = V11234345	1KV11234345
REF~IV,A00001	Invoice No. A00001	10KA00001
REF~PK~B12456	Packing List No. B12456	11KB12456
HL~003~002~I	Hierarchical Segment #3 - Item Level Subordinate to HL002	F03020I
LIN~0001~IN~102421930	SBC's Product Identifier = 102421930	P102421930
SN1~001~600~FT	Total qty. shipped = 600 ft	7Q600FT
PRF~AB347554~~~~0001	P.O. Number = AB347554Item = 0001	14KAB347554+0001
CLD~02~600	Number of reels = 2 - Number of units shipped on reels = 600 (feet as in SN103)	7Q2RE 7Q600FT
REF~LS~ABCD+40000	3S Bar Code Label = ABCD+40000	3SABCD+40000
REF~SE~AS23D145	Cable Reel Serial # = AS23D145	SAS23D145
REF~MR~EEE	Cable Reel Type = EEE	BEEE
REF~LS~ABCD+40001	3S Bar Code Label = ABCD+40001	3SABCD+40001
REF~SE~AS23D146	Cable Reel Serial # = AS23D146	SAS23D146
REF~MR~EEE	Cable Reel Type = EEE	BEEE
HL~004~002~I	Hierarchical Segment #4 - Item Level Subordinate to HL002	F04020I
LIN~0002~VN~TLT395	Vendor Part #TLT395	1PTLT395
SN1~002~2~EA	Total qty. shipped = 2EA	Q2
PRF~AB347554~~~~0003	P.O. Number = AB347554 - Item = 0003	14KAB347554+0003
CLD~02~2	Number of containers = 2 - Number of units shipped in containers = 2	7Q2CH
REF~LS~ABCD+40002	3S Bar Code Label = ABCD+40002	3SABCD+40002
REF~LS~ABCD+40003	3S Bar Code Label = ABCD+40003	3SABCD+40003
484 characters (not including address information [N1, N3, N4])		285 characters (not including address information [N1, N3, N4])

Table VI – 5b – Associating Data Identifier Data with X12 EDI Data (continued)

The telecommunication industry concluded that they do not require the Ship To information encoded in the machine-readable media that would accompany the shipment. If the complete EDI transaction were encoded, including the 71 characters associated with the ST, BSN, CTT, and SE segments and the 161 characters associated with the ISA, GS, GE, and IEA segments the complete EDI message would have been 716 (484+71+161) characters in length as opposed to the 285 when encoded with Data Identifiers.

When this data would be encoded using the Hierarchical Looping Data Identifier "F", the data would appear as follows:

```
[) > R_{S} 06^{G}_{S}
F01001S<sup>G</sup>s
5D010207011<sup>G</sup>s
3K104462<sup>G</sup>s
12KHMES6783222<sup>G</sup>s
F020110<sup>G</sup>s
KAB347554<sup>G</sup>s
1KV11234345<sup>G</sup>s
10KA00001<sup>G</sup>s
11KB12456<sup>G</sup>s
F030201<sup>G</sup>s
P102421930<sup>G</sup>s
7Q600FT<sup>G</sup>s
14KAB347554+0001<sup>G</sup>s
7Q2RE<sup>G</sup>s
7Q600FT<sup>G</sup>s
3SABCD+40000<sup>G</sup>s
SAS23D145<sup>G</sup>S
BEEE<sup>G</sup>s
3SABCD+40001<sup>G</sup>s
SAS23D146<sup>G</sup>s
BEEE<sup>G</sup>s
F04020I<sup>G</sup>s
1PTLT395<sup>G</sup>s
Q2^{G}s
14KAB347554+0003<sup>G</sup>s
7Q2CH<sup>G</sup>s
3SABCD+40002<sup>G</sup>s
3SABCD+40003<sup>R</sup>s<sup>E</sup>OT
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This Annex is not part of American National Standard ANSI MH10.8.2

ANNEX A

QUICK REFERENCE TO DATA INDENTIFIER (DI) CATEGORIES

OUTLINE OF DEFINED CATEGORIES

- CATEGORY 0 Special Characters Employed as Data Identifiers
- CATEGORY 1 Reserved
- CATEGORY 2 Container Information
- CATEGORY 3 Field Continuation
- CATEGORY 4 Date
- CATEGORY 5 Environmental Factors
- CATEGORY 6 Looping
- CATEGORY 7 Reserved
- CATEGORY 8 Human Resources
- CATEGORY 9 Reserved
- CATEGORY 10 License Plate
- CATEGORY 11 Transaction Reference
- CATEGORY 12 Location Reference
- CATEGORY 13 Maintenance Codes
- CATEGORY 14 Industry Assigned Codes
- CATEGORY 15 Reserved
- CATEGORY 16 Item Information
- CATEGORY 17 Measurement
- CATEGORY 18 Miscellaneous
- CATEGORY 19 Traceability Number for an Entity
- CATEGORY 20 Traceability Number for Groups of Entities
- CATEGORY 21 UPU / MH 10/SC8/WG2 Agreed Upon Codes
- CATEGORY 22 Party to the Transaction
- CATEGORY 23 Activity Reference
- CATEGORY 24 Reserved
- CATEGORY 25 Internal Applications
- CATEGORY 26 Mutually Defined

ALPHABETICAL LISTINGS OF ASSIGNED CATEGORIES

ACTIVITY REFERENCE	CATEGORY 23
CONTAINER INFORMATION	CATEGORY 2
DATE	CATEGORY 4
ENVIRONMENTAL FACTORS	CATEGORY 5
FIELD CONTINUATION	CATEGORY 3
HUMAN RESOURCES	CATEGORY 8
INDUSTRY ASSIGNED CODES	CATEGORY 14
INTERNAL APPLICATIONS	CATEGORY 25
ITEM INFORMATION	CATEGORY 16
LICENSE PLATE	CATEGORY 10
LOCATION	CATEGORY 12
LOOPING	CATEGORY 6
MAINTENANCE CODES	CATEGORY 13
MEASUREMENT	CATEGORY 17
MISCELLANEOUS	CATEGORY 18
MUTUALLY DEFINED	CATEGORY 26
PARTY TO THE TRANSACTION	CATEGORY 22
SPECIAL CHARACTERS	CATEGORY 0
TRACEABILITY NUMBER FOR AN ENTITY	CATEGORY 19
TRACEABILITY NUMBER FOR GROUPS OF ENTITIES	CATEGORY 20
TRANSACTION REFERENCE	CATEGORY 11
UPU / MH 10/SC8/WG2 AGREED UPON CODES	CATEGORY 21

(This Annex is not part of American National Standard ANSI MH10.8.2.)

ANNEX B

ANNOTATED LISTING OF ASSIGNED DATA INDENTIFIER (DI) CATEGORIES

ANNOTATED LISTING OF ASSIGNED CATEGORIES

ACTIVITY REFERENCE

This category relates to work activities, such as Work Order, Operation and Sequence numbers. It should not be confused with Category 11 (Transaction Reference), which relates to purchasing transactions.

CONTAINER INFORMATION

This category relates to identification of returnable containers such as compressed gas cylinders, wire reels, transportation equipment and other returnable-type containers. While many of these numbers are serial numbers, this category exists to provide an easy distinction between container serial number and product or label serial number referenced in

Category 19 (Traceability Number for an Entity).

DATE

This category relates to a variety of date structures, as well as to the significance of the date (e.g., Date of Manufacture or Expiration Date).

ENVIRONMENTAL FACTORS

This category relates to identification of environmental issues such as temperature, air pressure, wind speed, and similar measurements. Where Category 5 defines environmental measurements, Category 17 defines physical measurements.

FIELD CONTINUATION

This category relates to the continuation of data from a defined field which must be broken into two symbols because of space or other constraints. Only some of the assigned DI fields have valid continuation assignments.

HUMAN RESOURCES

This category relates to personnel identification.

INDUSTRY ASSIGNED CODES

This category relates to code or numbering systems that are controlled by and specific to a specific industry or governmental agency (e.g., NATO Stock Number). This allows for unambiguous identification of those code systems within the ANSI MH10.8.2 DI framework without necessitating the assignment of unique ANSI MH10.8.2 DIs for those items that have little or no relevance to those outside that industry or governmental agency.

INTERNAL APPLICATIONS

This category relates to the use of DIs for purposes that will remain within a closed system and for which a valid ANSI MH10.8.2 DI cannot provide unambiguous reference. For use within a single manufacturing facility, for example, the use of the Internal Applications DI (Y) could precede any other ANSI MH10.8.2 DI which could be defined, in that instance, for a purpose which is not in conformance with these guidelines.

ITEM INFORMATION

This category relates to the identification or characteristics of an item (see definitions), such as its Part Number, Manufacturing Revision Level or its Classification as a Hazardous Material. An item is something that is not identified as a unique entity but rather as representative of all other like items (see Definitions for further information). Additional DIs (20P-24P and 30P-34P) are set aside for descriptive information not otherwise provided for and which is defined between trading partners or intended for internal use (but with messages that will leave the system, precluding the use of a Category 25 DI). This category should not be confused with Category 19, Traceability Number for an Entity, nor Category 20, Traceability Number for a Group of Entities, both of which provide for identification of unique entities (see definitions).

CATEGORY 2

CATEGORY 4

CATEGORY 5

CATEGORY 3

CATEGORY 8

CATEGORY 14

r governmental a

CATEGORY 16

ansactions.

CATEGORY 23

LICENSE PLATE

This category relates to a worldwide unique identification of a transport unit or a unitized load (e.g., shipping container or pallet). Each DI is comprised of a unique Issuing Agency Code (IAC) assigned pursuant to ISO/IEC 15429, a world-wide unique organizational/entity/company identification number assigned by the IAC, and a unique transport unit/unitized load number assigned by the organization, entity, or company⁸.

LOCATION

This category relates to either a physical location that is used as a reference point (such as a Shelf Location) or to a physical location that is used as a destination reference (such as a Ship To address). Of particular note are the assignments 51L-52L and 54L-55L that relate to postal codes used as shipping addresses. These two sets of DIs provide for both domestic and international use (with an ISO country code suffix).

LOOPING

This category relates to the parent/child relationship between various fields of data, using pre-existing techniques from electronic data interchange. An example is where a shipment contains multiple orders over multiple pallets, multiple packages, multiple items, with multiple serial numbers. Using techniques described within Annex F of this document it is possible to relate a given serial number with a specific order.

MAINTENANCE CODES

This category identifies specific codes used in maintenance functions, including those functions expressed over time such as machine-on time, mean-time-between-failure, and the like.

MEASUREMENT

This category relates to physical dimensions, measures, quantity or monetary value of an item or group of items (may refer to entities as well). Of particular note is the assignment 7Q that is quantity followed by an ANSI Data Element 355 description of unit of measure. To indicate that there are n cartons in the shipment with x items per carton, either two 7Q fields can appear in the same message with appropriate ANSI modifiers or a 7Q can be used with a Q (generic quantity) with the significance mutually defined.

MISCELLANEOUS

This category relates to DIs that cannot otherwise be categorized (currently contains Return Authorization Codes).

MUTUALLY DEFINED

This category relates to data or information which has not been assigned a DI within this document and which trading partners need to include in their automatic identification application. The structure and significance of this information is to be agreed upon by all appropriate parties to the transaction.

PARTY TO THE TRANSACTION

This category relates to codes that identify all business entities that may be a party to a transaction (e.g., Vendor Number, Customer Number or Carrier Number).

SPECIAL CHARACTERS

This category relates to the use of a non-alpha, non-numeric character in the first data position of an automatic identification message (e.g., bar code) to identify the message as being controlled by a specific organization (e.g., Health Industry Business Communications Council, Uniform Code Council).

TRACEABILITY NUMBER FOR AN ENTITY

This category relates to the identification of a specific item (entity) in a unique manner for purposes of tracing that entity. Codes with this category DIs may identify a finished product or they may identify packaging that contains multiple entities if the packaging is what is being tracked. If a DI from this category is used, an identical message on another entity should never be found within the originating system. For example, a television's serial number is a traceability number for an entity, as is a unique number assigned to a carton to identify it in conjunction with an EDI transaction. This category should not be confused with Category 16 (Item Identification), which provides for

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CATEGORY 10

CATEGORY 12

CATEGORY 6

CATEGORY 13

CATEGORY 17

CATEGORY 26

CATEGORY 18

CATEGORY 22

CATEGORY 0 data position o

CATEGORY 19

v06a

⁸ Note: An exception within the License Plate category is the inclusion of "7J" Vehicle Registration License Plate Number (not unique without identification of country and issuing governmental region/authority)

identification of all like items (where an identical message would certainly the found within the same system), or with Category 20, which provides unique identification for groups of entities (see below).

TRACEABILITY NUMBER FOR GROUPS OF ENTITIES

This category relates to the identification of a lot, batch or other grouping of entities for purposes of tracing that group. Additional DIs (20T-24T and 30T-34T) have been set aside for additional information which is not otherwise provided for and which is mutually defined between trading partners or intended for internal use (but with messages which will leave the system, precluding the use of a Category 25 DI). This should not be confused with Category 19 (Traceability Number for an Entity) or Category 16 (Item Identification).

TRANSACTION REFERENCE

This category relates to the identification of agreements or correspondence that is involved in the sale, purchase or transportation of goods or services. This category is distinct from Category 23 (Activity Reference) that relates to the production of such goods and/or services.

UPU / MH 10/SC8/WG2 AGREED UPON CODES

This category relates to a set of identifiers ("5U" to "55U") that may be unique to the nature of the business of the United Postal Union (UPU) postal authorities that might not otherwise be used within the supply chain. The agreement between the UPU and ANSI MH10/SC 8/WG 2 is such that the UPU will endeavor to use DIs common to the rest of the marketplace. Only where there is a unique postal requirement for a unique DI, UPU may utilize one or more of the Category 21 DIs with the collaboration of ANSI MH10/SC 8/WG 2.

CATEGORY 20

CATEGORY 11

CATEGORY 21

(This Annex is not part of American National Standard ANSI MH10.8.2.)

ANNEX C

DATA IDENTIFIER (DI) APPLICATION NOTES

APPLICATION NOTES

The ANSI MH10.8.2 DI Standard addresses general requirements for Data Identifiers. Industry- or company-wide application standards will further define and regulate the use of any or all Data Identifiers in this document.

The basic structure of a ANSI MH10.8.2 DI is an alphabetic character preceded by 1, 2, 3 or no numeric digits. To decode a ANSI MH10.8.2 DI, software must parse the data up to the first alphabetic character and then evaluate that alphabetic character and the preceding numeric characters, if any.

However, it is recognized that some organizations will face implementation problems that cannot be fully covered in the general guidelines or that additional information on the intended use of certain of the DIs assigned in this document will be needed. The following application notes may be of some assistance.

The following topics are discussed in this Annex.

C.1 CAUTION ABOUT THE USE OF GS1 NUMBERS C.2 USE OF ANSI AND ISO DATA ELEMENT IDENTIFIERS C.3 DATE SIGNIFICANCE C.4 LOCATION CODING C.4.1 - Ship From, Ship To, Ship For - Multiple Levels of Location Marking C.4.2 C.5 ITEM IDENTIFICATION C.6 QUANTITY C.6.1 - Quantity Followed by Unit of Measure C.6.2 - Monetary Value C.6.3 - Number of a Carton Within Shipment C.7 PACKAGING IDENTIFICATION - Master Pack Identification C.7.1 - Lowest Level of Packaging C.7.2 C.8 LOT/BATCH IDENTIFICATION

C.9 ASSIGNMENT "4K"

- C.10 ASSIGNMENT "18K" Structured Reference
- C.11 Unique Identification of Items

C.1 A CAUTION ON THE USE OF GS1 NUMBERS

When cited within this document, references to GS1vendor or part numbers, or a combination of them, shall not be deemed to imply any use that is governed by GS1.

A number of industries have mandated that their members secure GS1 numbers in order to provide a common vendor numbering system. However, many of these organizations also employ alphanumeric coding schemes and/or include additional information that is not provided for by any GS1 standard and, therefore, are not in compliance with GS1 specifications.

These applications are valid *only* for the respective industries which have issued standards which accept GS1 numbering in addition to other numbering systems which require alpha-numeric symbologies or which have otherwise mandated the use of these numbering systems.

In no case should ANSI MH10.8.2 DIs be used in conjunction with, or in place of, approved GS1symbols for retail or POS applications for which the GS1 Global Trade Item Number (GTIN) has been mandated. In all such cases, only the appropriate GS1standards and specifications shall be applicable.

Questions on the use of GS1 numbering systems and standards, as well as the use of the GS1 bar code symbologies, can be obtained from the respective agency (address listed in this document).

C.2 THE USE OF ANSI AND ISO DATA ELEMENT IDENTIFIERS

For some DI assignments, qualifiers (suffixes) are used to provide additional significance to the data in the message. These qualifiers are drawn from ANSI and ISO Electronic Data Interchange (EDI) standards. In all cases the current "Draft Standard Approved for Trial Use" shall be the authoritative document.

In some instances, American National Standards Institute (ANSI) X12.3 Data Element Qualifiers are used. In other instances, International Standards Organization (ISO) codes are used. ANSI MH10.8.2 would prefer to use internationally accepted (ISO) codes for all applications but ISO standards do not exist for all needs.

EDIFACT, the United Nations EDI Standard, does provide codes for applications for which ANSI standards are referenced. However, EDIFACT does not yet have a practical coordination and review body that could assign additional codes as needed.

Insofar as this will be a dynamic document that will evolve new assignments in order to meet the needs of automatic identification users around the world, it was felt that an organization, which did have a professional staff to be responsive to requests, was essential. For this reason, ANSI standards have been used where necessary.

C.3 DATE SIGNIFICANCE

Provisions are made for various data codings in Category 4. Most DIs pertain to a specific date structure (e.g., DDMMYY) but do not specify the significance of the date.

In many applications, the structure of the date is mandated but the significance of the date is mutually agreed between trading partners and assignments ("D"-"5D") may be used in these cases.

Further, when both the structure and significance of the date is mutually defined, the assignment "9D" may be used.

However, when the significance of the date must be included, the assignments "6D" and "7D" use an ANSI Qualifier following the date to indicate its significance. The following examples show how this might be applied.

Example:

Date Significance Date of Manufacture (2-digit year, month, day) Expiration Date (4-digit year, month, day) DI/Data/ANSI Qualifier 6D890420049 7D20051231036

C.4 LOCATION CODING

The following topics are covered in this note. Location coding is covered in Category 12.

- "Ship From", "Ship To", "Ship For" location codes
- Multiple levels of location, marking.

C.4.1 Ship From, Ship To, Ship For

In order to facilitate automated sortation and routing of shipments, location codes for shipping locations have been provided. The assignments provides for three possible locations.

- Ship From
- Ship To
- Ship For (mutually defined)

There are two different sets of assignments for "Ship From" and "Ship To" location:

- Mutually defined or industry standard ("3L" & "2L")
- Postal code location ("51L" & "52L" and "54L" & "55L")

The use of mutually defined or industry standards will not be discussed here other than to note that the "Ship For" destination code (5L) will generally be printed by the supplier at the customer's request and used by the customer to facilitate automated internal routing of shipments. The "Ship For" code will, therefore, have significance only to the customer.

The use of postal authority codes (postal codes) does, however, merit some discussion. In this section, only the "open system" ANSI MH10.8.2 DIs will be discussed.

General Considerations

When postal codes are used which fall within the jurisdiction of a single postal authority (generally, the same country), there is no ambiguity of the location referred to. These are assignments "51L" ("Ship From") and "52L" ("Ship To").

However, postal coding systems around the world may present ambiguities to computer systems. For example, many European postal codes, as well as others around the world, are 4-digit numeric codes. Thus, the postal code "6300" could exist in more than one country. Without a means for identifying the country that administers that particular postal code, the data is meaningless.

Within Europe there is a postal convention that allows the inclusion of a country code preceding the numeric code. Following this convention, "CH-6300" refers to a Swiss (Confederation Helvetia) postal code.

Most postal authorities do not have such conventions, however, so another means of identifying the postal authority is needed - one that does not conflict with the European convention.

The ANSI MH10.8.2 DI Standard uses 2-character ISO country codes following the postal code for this purpose.

The following protocol is used in the ANSI MH10.8.2 DI Standard.

"Domestic" Postal Codes

If the shipment is within a single country or postal authority, use of the appropriate "domestic" DI ("51L" or "52L") preceding the postal code is all that is required. For the European postal convention countries, the "domestic" postal code DIs may be used with the proper country prefix included in the data portion of the labeling device (e.g., bar code label, RFID tag).

"International" Postal Codes

If the shipment is to move between countries or postal authorities, the appropriate "international" DI ("54L" or "55L") preceding the postal code will indicate that an ISO country code follows the postal code.

Example 1: "Domestic" shipments (within the same postal authority).

Location	<u>City, Country</u>	DI/Postal Code
"Ship From"	Zug, Switzerland	51L 6300
"Ship To"	Geneva, Switzerland	52L 1216

Example 2: "Domestic" shipments (within the European postal convention)

Location	City, Country	DI/Country/Postal Code
"Ship From"	Zug, Switzerland	51L <i>CH</i> 6300
"Ship To"	Brussels, Belgium	52L <i>B</i> 1150

Example 3: Shipment between postal authorities

Location	City, Country	DI/Postal Code/ISO Qualifier
"Ship From"	Zug, Switzerland	54L6300CH
"Ship To"	Morley, Western Australia	55L 6062 AU

NOTE: Italics and bold are used for emphasis and are not used in actual coding.

It should also be noted that the longest possible bar code (excluding start, stop and symbology check characters) will be 14 characters (3-character DI, 9-digit U.S.A. Zip Code, 2-character ISO country code).

C.4.2 Multiple Levels of Location Marking

Provision is made in this document for multiple levels of location marking ("1L", "20L"- "24L"). These are considered to be for internal or mutually defined use.

The "Location" assignment is considered to be "generic" and is kept to two characters to reduce symbol length.

For applications that require further differentiation or a hierarchical method of indicating location *and require that information in the DI*, the "First Level" through "Fifth Level" assignments is provided. An example of their use is indicated below.

Example 1: Hierarchical Location

Location Description	<u>DI</u>
Building Number	1L
File Storage Room Number	20L
File Cabinet Row Number	21L
File Cabinet Number	22L
File Cabinet Drawer Number	23L
File Number	24L

Example 2: Location Differentiation

Location Description	<u>DI</u>
Building Number	1L
Machine Tool Location Number	20L
Physical Plant Equipment Location Number	21L
Routing Location Number	22L
Asset Control Room/Location Number	23L
Mail Stop	24L

C.5 ITEM IDENTIFICATION

Product identification DIs are assigned in Category 16, "Item Information." Multiple levels of identification are provided for both supplier ("1P" and "30P"-"34P") and customer ("P" and "20P" - "24P").

The "1P" and "P" assignments are intended to be the most commonly used DIs. However, many business entities have additional requirements that suggest the use of additional DIs for product identification. The following examples show how they might be used.

Example 1: Multiple Product Characteristics (as assigned by supplier)

<u>Description</u>	<u>DI</u>
Shoe Style Number	1P
Length Width	30P 31P
Color	32P
Material	33P
Trim	34P

Example 2: Multiple Product Identifications (as assigned by customer)

Description	<u>DI</u>
Part Number	Р
Old Catalog Number	20P
New Catalog Number	21P
Additional information	22P
Additional information	23P
Additional information	24P

<u>C.6</u> <u>QUANTITY</u>

Quantity, number of pieces, or "amount" DIs are assigned in Category 17, "Measurement." The following topics are covered in this section.

- Quantity followed by a unit of measure
- Monetary value followed by a unit of measure
- Number of cartons within a shipment

C.6.1 Quantity Followed by Unit of Measure

For applications in which the quantity that will be referred is unambiguous and clearly understood between trading partners, the assignment "Q" should be used. Other assignments exist for other, defined, measures.

However, where there is more than one quantity or where the unit of measure needs to be specified, the assignment "7Q" allows for qualification of the value through the use of an 2-digit ANSI Unit of Measure Code.

The unit of measure code immediately follows the data. Because of the ability to qualify the amount, more than one "7Q" message may be found on a single labeling device.

The following examples show how this could be applied.

Example: Quantity, Measure

<u>Measure</u> Number of pieces in box (mutually defined) Weight of each piece (in kilograms) Rated capacity (in kilowatt hours) Overall length (in inches, decimal, nominal)

C.6.2 Value

Provision is made for the definition of unit of value ("12Q") by using an ISO country/currency code following the data. The use of this DI must be mutually defined between trading partners. The following examples show how this could be applied.

Example: Value of Item

Description Value of each piece in U.S. Dollars (\$12.75) or Value of shipment in U.S. Dollars (\$14,500)

C.6.3 Number of Carton Within Shipment

A DI has been assigned to allow information concerning the number of a carton within a shipment ("13Q"). The structure of the data follows the format:

n/x

where: *n* is the number of the carton within the shipment

/ is the separator between numeric fields (must be encoded) x is the total number of cartons in the shipment.

Examples:

Description	DI/Data
5th carton in shipment of 6 cartons	13Q 5/6
127th carton in shipment of 127 cartons	13Q l27/127

C.7 PACKAGING IDENTIFICATION

Package Identification DIs are assigned in Category 19, "Traceability Number for an Entity." These identifiers are used on labeling devices (e.g., trading partner bar code transaction labels) attached to packaging.

The following topics are discussed in this section.

- Master packaging identification customer order reference
- Identification of lowest level of packaging

Packaging identification generally is a unique number that identifies that package from all other packages. This number is usually used in conjunction with a supplier identification to provide a completely unique number.

DI/Data/ANSI Qualifier Q144 (no qualifier) 7Q21.25KG 7QI2KH 7Q35.6ED

DI/Data/ISO Qualifier

12Q12.75USD

12Q|4500USD

Master packs (sometimes referred to as "unit loads") are transport units either made up of a number of filled transport packages or items held together by pallet, slip sheet, strapping, etc. or comprised of a single large container expressly designed to make items suitable for transportation, stacking, and storage as a unit.

Many industry standards require lower levels of packaging identification (using a lower level DI) within Master Packs to complete a transaction process. Trading partners are encouraged to utilize the lowest level DI and configure shipments accordingly.

C.7.1 Master Pack Identification

Provision is made for identification of the following information on the master packaging label ("4S"-"7S").

- Whether items within the package are the same or different.
- Whether items within the package are covered by one customer order or more than one customer order.

Assignments "4S" and "5S"

Assignments "4S" and "5S" are used when the items in the shipment are covered under the same customer order. The "4S" DI is used when the items are the same. The "5S" DI is used when the items are not the same.

If there is no interest in identifying whether single or multiple customer orders are contained within the packaging *and there is a strong argument against using all four DIs,* then all shipments should be identified as being "on the same customer order" (i.e., not referenced) and "4S" and "5S" can be used.

Assignments "6S" and "7S"

The ["]6S" and "7S" DIs are used to indicate that the items in the package are covered by multiple customer orders. "6S" is used when the items are the same, "7S" when the items are not the same.

Implicit in the use of "6S" and "7S" is the assumption that "4S" and "5S" DIs will also be encountered by the reading system.

See the next section for information about labels at lower levels within master packaging.

C.7.2 Lowest Level of Packaging

In some instances, packaging identification labels (other than part number) will be affixed to packaging within a master pack. A DI is provided to indicate that no further levels of packaging identification will be found within the package ("3S").

It is assumed that "3S" will be affixed to packaging which contains like items and that no further scanning will be required for package tracking purposes.

It is assumed that "3S" will usually be placed on packaging that is intended for transport or storage and will contain sub-packs on which only item identification is found. "3S" labels will generally be found on intermediate packaging occurring between the Product Identification and Master Packaging. It is further assumed that the "3S" symbol will generally be found within a master pack which contains a DI from the range "4S - "7S".

C.8 LOT/BATCH IDENTIFICATION

Lot and batch identification DIs are assigned in Category 20, "Traceability Number for Groups of Entities." Multiple levels of identification are provided for both supplier ("T" and "30T"-"34T") and customer ("IT" and "20T"-"24T").

The "T" and "1T" assignments are intended to be the most commonly-used DIs. However, many business entities have additional requirements that suggest the use of additional DIs for product identification. The following examples show how they might be used.

Example: Multiple Lot/Batch Information (as assigned by supplier)

Description	<u>DI</u>
Lot Number	1T
Production Batch Number	30T
Testing Batch Number	31T
Shipment Lot Number	32T
Additional information	33T
Additional information	34T

C.9 ASSIGNMENT "4K"

"Line number of the order assigned by the Customer to identify a Purchasing Transaction." This DI refers to the physical line number of an order on which a large number of items are requested. In some trading relationships, master orders are issued which cover a specified period of time and products are released against the order over time. The process simplifies paperwork for routinely ordered items that are not to be shipped in a single lot.

In such an instance, a simple reference to an order number (e.g., Purchase Order, Work Order, etc.) is not sufficient. For these instances, the "4K" data refers to the specific line of the order in which the product or service is referenced.

The line number and order may refer to electronic or paper transactions.

C.10 ASSIGNMENT "18K" Structured Reference

Many data identifier allocations correspond to identifiers, (e.g., bar code) representations that are intended to be engraved or printed on, or affixed to, the physical objects they identify. Container identifiers (category B), License Plates (J), Item Identifiers (P), Traceability Numbers (S) fall into this category.

These identifiers are also commonly used in communications about the objects they identify. Where such communications are purely electronic, it is self evident that what is communicated is a reference to the object identified. However, particularly in the postal world and in logistics applications, there are situations in which it is desirable to communicate such reference information in the form of a bar code (or 2D symbol or RF tag) that is printed on or attached to a physical object other than the object which is identified.

In such cases, the data identifier corresponding to the type of identifier cannot be used to identify the data, since otherwise, an automated system would be unable to distinguish between the physical object identified and the object carrying a reference to it.

For example, in the domain of license plates, a number of items carrying, say, license plates JJ1, JJ5, JJ7 and JJ10 might be grouped, for transport purposes, into an aggregate carrying license plate 2JJ4 (or put into a container with Container Identifier 5BJ7. Bar codes (or 2D symbols) on the aggregate (or container) may need to list the content of the aggregate. They cannot use the license plate DI for this since, otherwise, an automated system might read one of the reference bar-codes, interpret it as the license plate attached to the referenced object, and process the aggregate as if it were the particular individual item concerned. A similar scenario may occur in postal processing, where batch cards (which may be physically indistinguishable from postal items) are used to list the identifiers of the items that comprise the batch.

The solution to this problem requires that there be a clear distinction between an identifier that is part of, or attached to, the object identified and an identifier reference. This can only be achieved by use of a different data identifier. For this, three possibilities have been identified:

- 1. create a separate DI, in the category concerned, for each case;
- 2. create a separate DI, in category K (transaction reference), for each case;
- 3. allocate a single category K DI, embedding both the referenced identifier and its original DI value into the data.

Of these, the first two call for the allocation of many DI's and risk confusion, since it would be impossible to maintain any consistency of correspondence between the numeric prefixes used for references and the prefixes for the original objects. Approach 3 is therefore proposed as being both simple and elegant.

Structure: identification code, license plate or traceability number for an object or entity, prefixed by the data identifier used for encoding that identification code on the object itself.

Example:

Suppose that a parcel has license plate, issued under the UPU Issuing Agency Code, JGBA123456789.

This will be encoded on the parcel, using Data Identifier J. The parcel label will thus carry a bar code, including the DI, specifically: JJGBA123456789.

The corresponding Structured Reference is thus JJGBA123456789. When encoded in a bar code or other media, it will be prefixed by the DI for a Structured Reference, i.e., as 18KJJGBA123456789.

Similarly, a bar code reference to an aggregate transport unit (DI 2J) with license plate JGBA456789123 would be encoded as 18K2JJGBA456789123.

C.11 Unique Identification of Items

The intended use of Data Identifier (DI) 25S is to indicate that the data following the DI represents a concatenated data string that uniquely identifies an item. The 25S data string is formed from two segments which are an 18V segment and a supplier assigned serial number segment. The serial number assigned by the supplier (designated by the 18V segment) must be unique for that supplier.

The 18V segment is as defined in section 1.

The serial number segment consists of a unique serial number for the Company Identification Number (CIN) in 18V. For companies that serialize within part number, and/or lot/batch, methods for creating unique item identification within the serial number segments are:

part number + serial number (unique for that part number for the CIN) lot/batch number + serial number (unique within the lot/batch for the CIN)

Data strings following 18V should not be parsed to obtain the component data elements.

(This Annex is not part of American National Standard ANSI MH10.8.2.)

ANNEX D

ANSI X12.3 Data Element Number 355 Unit of Measure Code

ANSI X12.3 Data Identifier Dictionary Code List 355 Unit of Measure

CODE DEFINITION

CODE DEFINITION

- 01 Actual Pounds
- 02 Statute Mile
- 03 Seconds
- 04 Small Spray
- 05 Lifts
- 08 Heat Lots
- 10 Group
- 11 Outfit
- 12 Packet
- 13 Ration
- 14 Shot
- 15 Stick
- 24 Theoretical Pounds
- 26 Actual Tons
- 27 Theoretical Tons
- 31 Catchweight
- 50 Actual Kilograms
- 51 Actual Tonnes
- 53 Theoretical Kilograms
- 54 Theoretical Tonnes
- 56 Sitas
- 58 Net Kilograms
- 59 Parts Per Million
- 60 Percent Weight
- 61 Parts Per Billion
- 62 Percent Per 100 Hours
- 63 Failure Rate In Time
- 64 Pounds Per Square Inch Gauge
- 65 Coulomb (A Unit of Charge)
- 66 Oersteds
- 67 Siemens (A Unit of Admittance)
- 68 Ampere
- 69 Test Specific Scale
- 70 Volt
- 71 Volt-Ampere Per Pound
- 72 Watts Per Pound
- 73 Ampere Turn Per Centimeter
- 74 Milli Pascals
- 75 Cycles
- 76 Gauss
- 77 Mil
- 78 Kilogauss
- 79 Electron Volt
- 80 Pounds Per Square Inch (Absolute)
- 81 Henry (A Unit of Inductance)

- 82 Ohm (A Unit of Resistance)
- 83 Farad (A Unit of Capacitance)
- 84 Kilo Pounds Per Square Inch (KSI)
- 85 Foot Pounds
- 86 Joules
- AA Ball
- AC Acre
- AM Ampoule
- AP Aluminum Pounds Only
- AS Assortment
- AY Assembly
- B2 Bunks
- B3 Batting Pound
- B4 Barrel, Imperial
- B5 Billet
- B6 Bun
- B7 Cycles
- B8 Board
- B9 Batt
- BA Bale
- BB Base Box
- BC Bucket
- BD Bundle
- BE Beam
- BF Board Feet
- BG Bag
- BH Brush
- BI Bar
- BJ Band
- BK Book
- BL Block
- BM Bolt
- BN Bulk
- BO Bottle
- BP 100 Board Feet
- BQ Brake horse power
- BR Barrel
- BS Basket
- BT Belt
- BU Bushel
- BV Bushel, Dry Imperial
- BW Base Weight
- BX Box
- BY British Thermal Unit (BTU)
- BZ Million BTUs

CODE	DEFINITION	CODE	DEFINITION
C1	Composite Product Pounds	DS	Display
	(total weight)	DT	Dry Ton
C2	Carset	DZ	Dozen
C3	Centiliter	E3	Inches, Fraction-Average
C4	Carload	E4	Inches, Fraction-Minimum
C5	Cost	E5	Inches, Fraction-Actual
C6	Cell	E7	Inches, Decimal-Average
C7	Centipoise (CPS)	E8	Inches, Decimal-Actual
C8	Cubic Decimeter	E9	English (Feet, Inches)
C9	Coil Group	EA	Each
CA	Case	ED	Inches, Decimal-Nominal
CB	Carboy	EF	Inches, Fraction-Nominal
CC	Cubic Centimeter	EM	Inches, Fraction-Minimum
CD	Carat	EP	Eleven pack
CE	Centigrade, Celsius	EV	Envelope
CF	Cubic Feet	EX	Feet, Inches and Fraction
CG	Card	EY	Feet, Inches
CH CI	Container Cubic Inches	EZ FA	Feet and Decimal Fahrenheit
CJ	Cone	FA	1000 Cubic Feet
CK	Connector	FC	Million Cubic Feet
CL	Cylinder	FO	Fluid Ounce
	Centimeter	FP	Pounds Per Square Foot
CN	Can	FT	Foot
CO	Count	GA	Gallon
CP	Crate	GB	Gallons/Day
CQ	Cartridge	GG	Great Gross (Dozen Gross)
CR	Cubic Meter	GH	One-half Gallon
CS	Cassette	GI	Imperial Gallons
СТ	Carton	GL	Grams Per Liter
CU	Cup	GM	Grams Per Square Meter
CV	Cover	GN	Gross Gallons
CW	Hundred Pound (CWT)	GR	Gram
CX	Coil	GS	Gross
CY	Cubic Yard	GY	Gross Yard
CZ	Combo	GZ	Gage Systems
DA	Days	HA	Hank (100 feet of rope)
DB	Dry Pound	HB	Hundred Boxes
DB	Dry Pounds	HC	Hundred Count
DC	Disk (Disc)	HD	Half Dozen
DD	Degree	HE	Hundredth of a Carat
DE	Deal	HF	Hundred Feet
DF DG	Dram Decigram	HG HH	Hectograms Hundred Cubic Feet
DG	Miles	HI	Hundred Sheets
DI	Dispenser	HJ	Horse power
DK	Kilometers	HK	Hundred Kilograms
DL	Deciliter	HL	Hundred Feet-Linear
DM	Decimeter	HO	Hundred Troy Ounces
DP	Dozen Pair	HP	Hundred Pounds

Dozen Pair Drum

DR

- HR Hours
- 85

CODE DEFINITION

HS	Hundred Square Feet
ΗT	Half Hour
HU	Hundred
ΗV	Hundred Weight (Short)
HW	Hundred Weight (Long)
HY	Hundred Yards
IN	Inch
JB	Jumbo
JO	Joint
JR	Jar
JU	Jug
KA	Cake
KD	
	Kilograms Decimal
KE	Keg
KG	Kilograms
KH	Kilowatt Hour
KI	Kilograms/Millimeter Width
KK	100 Kilograms
KL	Kilograms/Meter
KM	Kilograms/Square Meter,
	Kilograms, Decimal
KN	Kilometer
KΤ	Kit
KV	Kelvin
KW	Kilograms Per Millimeter
LA	Pounds Per Cubic Inch
LB	Pound
LC	Linear Centimeter
LE	
	Lite
LF	Linear Foot
LG	Long Ton
LH	Labor Hours
LI	Linear Inch
LJ	Large Spray
LK	Link
LM	Linear Meter
LN	
	Length
LO	Lot
LP	Liquid Pounds
LR	Layer
LS	
	Lump Sum
LT	Liter
LY	Linear Yard
M1	Milligrams per Liter
M2	Millimeter-Actual
M3	Mat
M4	Monetary Value
M6	Milligrams/Square Inch

M6 Milligrams/Square Inch

DEFINITION
Machine/Unit Millimeter-Nominal Microgram Milligrams/Square Foot Per Side Metric Gross Tons Microns Metric Minutes Milligrams Per Square Inch Milligrams Per Square Inch Milliliter Millimeter Metric Net Ton Months Metric Ton 1000 Meters Meter Square Millimeter Metric Long Ton Millicurie Number of Mults Metric Ton Kilograms Mixed Millimeter-Average Millimeter-Average Millimeter-Average Car Load Nautical Mile Train Trailer Vehicle Ounces Liquid Two-pack Overtime Hours Ounces Avoirdupois Percent Pounds Per Foot Three-Pack Four-Pack Five-Pack
Six-Pack Seven-Pack
Eight-Pack Nine-Pack
Pail

- PB Pair Inches
- PC Piece
- PD Pad
- PE Pounds Equivalent

DEFINITION CODE

PF	Pallet (Lift)
----	---------------

- PG Pounds Gross
- PH Pack (Pak)
- ΡI Pitch
- PJ Pounds, Decimal-Pounds/Square Foot-Pound Gage
- ΡK Package
- PL Pallet/Unit Load
- Pounds-Percentage PM
- PN Pounds Net
- PO Pounds Per Inch of Length
- PP Plate
- PR Pair
- Pounds Per Square Inch PS
- PT Pint
- ΡV **One-half Pint**
- Pounds Per Inch of Width PW
- PX Pint. Imperial
- PY Peck, Dry US
- PΖ Peck, Dry Imperial
- Q1 Quarter (Time)
- QD Quarter Dozen
- QR Quire
- QS Quart, Dry US
- QT Quart
- QU Quart, Imperial
- RA Rack
- RD Rod
- RE Reel
- RG Ring
- RK **Roll-Metric Measure**
- RL Roll
- RM Ream
- RN **Ream-Metric Measure**
- RO Round
- SA Sandwich
- SB Square Mile
- SC Square Centimeter
- SD Solid Pounds
- SE Section
- SF Square Foot
- SG Segment
- SH Sheet
- SI Square Inch
- SJ Sack
- SK Split Tank Truck
- SL Sleeve
- SM Square Meter
- SN Square Rod
- SO Spool

CODE DEFINITION

- SP
- Shelf Package SQ Square
- SR Strip
- SS Sheet-Metric Measure
- ST Set
- SU Short Ton
- SV Skid
- SW Skein
- Shipment SX
- SY Square Yard
- T1 Thousand Pounds gross
- **Tenth Cubic Foot** ΤA
- ΤВ Tube
- ΤС Truck Load
- TD Therms
- TE Tote
- TF **Ten Square Yards**
- ΤG Gross Ton
- ΤH Thousand
- ΤI **Thousand Square Inches**
- ΤJ **Thousand Square Centimeters**
- ΤK Tank
- **Thousand Feet-Linear** TL
- ТМ Thousand Feet (Board)
- ΤN Net Ton
- TO **Trov Ounce**
- TP Ten Pack
- **Thousand Feet** TQ
- Ten Square Feet TR
- TS **Thousand Square Feet**
- **Thousand Linear Meters** ΤT
- ΤU Thousand Linear Yards
- ΤV Thousand Kilograms
- ΤW **Thousand Pieces of Sheets**
- TΧ Troy Pound
- ΤY Tray
- **Thousand Cubic Feet** ΤZ
- UN Unit
- VI Vial
- VT Voltage
- WB Wet Pound
- WE Wet Ton
- WH Wheel
- Weight Per Square Inch WI

v06a

- WK Week
- WP Pennyweight
- WR Wrap WΤ Wattage

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CODE DEFINITION

- YD Yard
- YL 100 Linear Yards
- YR Years
- YT Ten Yards
- ZZ Mutually Defined

Users should consider use of either X12.3 version 004000 or current DSTU (Draft Standard for Trial Use). The list above is not comprehensive, but is representative of codes employed. A full list of codes representing unit of measurement is available from:

DATA INTERCHANGE STANDARDS ASSOCIATION (X12 DISA)

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ANNEX E

ANSI X12.3 Data Element Number 374 Date/Time Codes

ANSI X12.3 Data Identifier Dictionary Code List 374 Date/Time Codes

CODE DEFINITION

- 001 Cancel After This Date/Time
- 002 Delivery Requested On This Date/Time
- 003 Invoice Date/Time
- 004 Purchase Order Date/Time
- 005 Sailing Date/Time
- 006 Solid Date/Time
- 007 Effective Date/Time
- 008 Purchase Order Received
- 009 Process Date/Time
- 010 Requested Ship Date/Time
- 011 Shipped On This Date/Time
- 012 Terms Discount Due Date/Time
- 013 Terms Net Due Date/Time
- 014 Deferred Payment Date/Time
- 015 Promotion Start
- 016 Promotion End
- 017 Estimated Delivery Date/Time
- 018 Date/Time Available/Constructive Placement
- 019 Date/Time Unloaded
- 020 Check Date/Time
- 021 Charge Back Date/Time
- 022 Freight Bill Date/Time
- 023 Promotion Order Date/Time Start
- 024 Promotion Order Date/Time End
- 025 Promotion Ship Date/Time Start
- 026 Promotion Ship Date/Time End
- 027 Promotion Requested Delivery Date/Time - Start
- 028 Promotion Requested Delivery Date/Time - End
- 029 Promotion Performance Delivery Date/Time - Start
- 030 Promotion Performance Delivery Date/Time - End
- 031 Promotion Invoice Performance Delivery Date/Time - Start
- 032 Promotion Invoice Performance Delivery Date/Time - End
- 033 Promotion Floor Stock Protect Date/Time - Start
- 034 Promotion Floor Stock Protect Date/Time - End
- 035 Delivered On This Date/Time
- 036 Expiration Date/Time
- 037 Ship Not Before Date/Time
- 038 Ship Not Later Than Date/Time
- 039 Ship Week Of Date/Time

CODE DEFINITION

040 Status Date (After And Including) 041 Status Date (Prior And Including) 042 Superseded Date 043 Publication Date 044 Received On This Date 045 Cumulative Quantity Start Date 046 Cumulative Quantity End Date 047 Buyer's Local Time 048 Seller's Local Time 049 Confirmed Date 050 Received On This Date 051 Cumulative Quantity Start Date 052 Cumulative Quantity End Date 053 Buver's Local Time 054 Seller's Local Time 055 Confirmed Date 056 Estimated Port Of Entry Date 057 Actual Port Of Entry Date 058 Customs Clearance Date 059 Inland Ship Date 060 Engineering Change Level Date 061 Cancel If Not Delivered By This Date 062 Blueprint Date 063 Do Not Deliver After This Date 064 Do Not Deliver Before This Date 0651st Schedule Delivery Date 0661st Schedule Ship Date 067 Current Schedule Delivery Date 068 Current Schedule Ship Date 069 Promised For Delivery (Date/Time) 070 Scheduled For Delivery (After And Including) 071 Requested For Deliverv (After And Including) 072 Promised For Deliverv (After And Including) 073 Scheduled For Delivery (Prior To And Including) 074 Requested For Delivery (Prior To And Including) 075 Promised For Delivery (Prior To And Including) 076 Scheduled For Delivery (Week Of) 077 Requested For Delivery (Week Of) 078 Promised For Delivery (Week Of) 079 Promised For Shipment (Date/Time) 080 Scheduled For Shipment (After And Including)

CODE DEFINITION

- 081 Requested For Shipment (After And Including)
- 082 Promised For Shipment (After And Including)
- 083 Scheduled For Shipment (Prior To And Including)
- 084 Requested For Shipment (Prior To And Including)
- 085 Promised For Shipment (Prior To And Including)
- 086 Scheduled For Shipment (Week Of)
- 087 Requested For Shipment (Week Of)
- 088 Promised For Shipment (Week Of)
- 089 Inquiry Date
- 090 Report Start Date
- 091 Report End Date
- 092 Contract Effective Date
- 093 Contract Expiration Date
- 094 Manufacturing Date
- 095 Bill of Lading Date
- 096 Date/Time Of Discharge
- 097 Transaction Creation Date
- 098 Bid (Effective) Date
- 099 Bid-Open Date (Date Bids Will Be Opened)
- 100 No Shipping Schedule Established As Of Date/Time
- 101 No Production Schedule Established As Of Date/Time
- 102 Expect To Ship By Date
- 103 Expect To Ship By Week Of Date
- 104 Revised Expect To Ship By Date
- 105 Revised Expect To Ship By Week Of Date
- 106 Required By Date
- 107 Deposit Date/Time
- 108 Postmark Date
- 109 Date/Time Received At Lockbox
- 110 Agreed Upon Scheduled Ship
- 116 Scheduled Interchange Delivery

Users should consider use of either X12.3 version 004000 or current DSTU (Draft Standard for Trial Use). The list above is not comprehensive, but is representative of codes employed. A full list of codes representing time is available from:

DATA INTERCHANGE STANDARDS

ASSOCIATION (X12 DISA) 333 John Carlyle Street – Suite 600 Alexandria, VA 22314-2852 ATTN: Manager, Publications and Standards Voice: (703) 548-7005 Email: publications@disa.org

To Order EDI Publications:

DISA 333 John Carlyle Street – Suite 600 Alexandria, VA 22314-2852 Attn: Manager, Publications & Standards Voice: (703) 548-7005 Email: publications@disa.org

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) 25 West 43rd Street New York, NY 10036 (212) 642-4900 http://webstore.ansi.org/ansidocstore/find.asp? (This Annex is not part of American National Standard ANSI MH10.8.2)

ANNEX F

ANSI X12.3 Data Element Numbers 208 & 209 Hazardous Material Codes

ANSI X12.3 Data Identifier Dictionary Code List 208 and 209 Hazardous Material Codes

208 HAZARDOUS MATERIAL CODE QUALIFIER

CODE DEFINITION

- 4 46 Level DOT Code¹
- 6 Airline Tariff 6D²
- 9 Title 49, Code of Federal Regulations (CFR)³
- A International Civil Aviation Organization (ICAO) Code⁴
- B Uniform Fire Code (UFC)⁵
- C Storage Compatibility Group⁶
- D Hazardous Material ID, DOT⁷
- E Endorsement
- F Air Force Joint Manual 24-204⁸
- I Intergovernmental Maritime Organization (IMO)⁹
- R Bureau of Explosives (BOE) 6000 Tariff¹⁰
- T International Air Transport Association Dangerous Code List¹¹
- U United Nations¹²
- X Hazardous Class or Division¹³

Users should consider use of either X12.3 version 004000 or current DSTU (Draft Standard for Trial Use). The list above is not comprehensive, but is representative of codes employed. A full list of Hazardous Material Code Qualifiers is available from:

- Code of Federal Regulations CFR Title 46
 Available from:
 Superintendent of Documents
 U.S. Government Printing Office
 Washington, DC 20402
 Abstract: Hazardous materials codes for domestic water shipments
- 2 Tariff 6D Official Regulations on Restricted Articles Available from: Airline Tariff Publishing Co. Dulles Airport Washington, DC Abstract: Hazardous materials codes for domestic air shipments

 Hazardous Material Code (49 Level) Available from: Standard Transportation Commodity Code (STCC)/Hazardous Materials Shipping Description Railinc/Association of American Railroads 7001 Weston Parkway – Suite 200 Cary, NC 27513 Abstract: The hazardous materials section (Group 49) of the STCC is organized according to the kind and degree of hazard associated with hazardous materials or hazardous substances, with special provisions to relate the identified commodity to its product class with the established commodity code structure.

- IATA Restricted Articles Regulation Available from: International Air Transport Association (IATA) Publications Department 800 Place Victoria - PO Box 113 Montreal, Quebec H4Z 1M1 Canada Voice: +1 514 874 0202 Telefax: +1 514 874 9632 Abstract: Hazardous materials codes for international air shipments
- 5 Uniform Fire Code (UFC) Available from: International Fire Code Institute (IFCI)
 5360 Workman Mill Road Whittier, CA 90601-2298
- 6 Storage Compatibility Group Designator Code of Federal Regulations Transportation, Title 49, Section 172 October 1, 1992, pages 328-329 Available from: Superintendent of Documents U.S. Government Printing Office Washington, D.C. 20402 Abstract: Provides storage group designators, as established by the U.S. Department of Transportation, which specify special storage provisions for hazardous materials for the purpose of transportation in commerce.
- 7 Hazardous Materials ID, DOT Code of Federal Regulations Transportation, Title 49, parts 100 to 177 revised as of November 1, 1983, pages 75-170 Available from: Superintendent of Documents U.S. Government Printing Office Washington, D.C. 20402 Abstract: Provides codes, names, and hazard classes for materials designated by the U.S. Department of Transportation as hazardous for purposes of transportation in commerce. The identifier of the materials listed is alphanumeric of the form: "AAdddd". The numeric ("d") portion of the identifier has no significance. The alphabetic prefix may be "UN" for materials appropriate for both international and domestic shipments; or "NA" for materials appropriate only for domestic shipments and shipments to and from Canada.
- 8 Air Force Joint Manual 24-204: Preparing Hazardous Materials for Military Air Shipments United States Air Force Material Command Available from: Defense Automated Printing Service Bldg. 4D, 700 Robins Avenue Philadelphia, PA 19111-5094 URL: http://www.afmc.wpafb.af.mil/Hazmat Abstract: This manual provides guidance and procedures for preparing hazardous materials for shipment aboard military aircraft to ensure that such materials are packaged, marked, labeled, and prepared properly for transportation

- Intergovernmental Maritime Organization (IMO)

 Dangerous Goods Code
 Available from:
 Intergovernmental Maritime Consultative Organization (IMCO)
 101-104 Piccadilly
 London W1 VOAE England
 Abstract: Dangerous materials codes for international ocean shipments.
- 10 Bureau of Explosives (BOE) 6000 Tariff

Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water Available from: Association of American Railroads Publications P.O. Box 1265 Evans City, PA 16033 Abstract: Regulations and restrictions covering the acceptance and transportation of explosives and other dangerous articles by carriers.

- 11 International Air Transport Association (IATA) Dangerous Goods Code Dangerous Goods Regulations Available from: International Air Transport Association (IATA) Publications Department 800 Place Victoria - PO Box 113 Montreal, Quebec H4Z 1M1 Canada Voice: +1 514 874 0202 Telefax: +1 514 874 9632 Abstract: Air courier regulations for the shipping and acceptance handling of dangerous goods. Based on the International Civil Aviation Organization (ICAO) Technical Instructions for the Safe Transport of Dangerous Goods by Air.
- 12 United Nations Number (Dangerous Goods)

"Transportation of Dangerous Goods", Recommendations of the Committee of Experts of the

Transport of Dangerous Goods, Third Revised Edition United Nations ST/SG/AC10/1REV.3, 1983,

SALES NO.E.83 VIII.1 Available from: United Nations Publications Polaris des Nations CH – 1211 Geneva 10 Switzerland Abstract: Provides codes, names and hazard classes for materials designated as dangerous for purposes of transport in commerce. The identifier of the dangerous goods listed is numeric of the form "dddd".

13 Hazardous Class or Division

Code of Federal Regulations, Transportation, Title 49, Subchapter C, Subpart B, Table of Hazardous Materials and Special Provisions October 1, 1992 Version, pages 120-238 Available from: Superintendent of Documents U.S. Government Printing Office Washington, D.C. 20402 Abstract: Provides classes and divisions for Hazardous Materials as established by the U.S. Department of Transportation for the purpose of transportation in commerce. (This Annex is not part of American National Standard ANSI MH10.8.2)

ANNEX G

ISO 4217 Unit of Value Currencies and Funds

ISO 4217
Unit of Value of Currencies and Funds

DEFINITION	ALPHABETIC CODE	NUMERIC CODE
Aregentinan Austral	ARA	032
Australian Dollar	AUD	036
Australian Dollar Austrian Schilling	AUD	030
Belgian Franc (financial)	BEL	992
Brazilian Cruzado	BRC	992 076
Canadian Dollar	CAD	124
Danish Krone	DKK	208
European Currency Unit (ECU)	XEU	954
Finnish Markka	FIM	246
French Franc	FRF	250
Deutsche Mark	DEM	280
Greek Drachma	GRD	300
Hong Kong Dollar	HKD	344
Iceland Krona	ISK	352
Indian Rupee	INR	356
International Monetary Fund (SDR)	XDR	960
Irish Pound	IEP	372
Israeli Shekel	ILS	376
Italian Lira	ITL	380
Japanese Yen	JPY	392
Luxembourg Franc (financial)	LUL	988
Mexican Peso	MXP	484
Netherlands Guilder	NLG	528
New Zealand Dollar	NZD	554
Norwegian Krone	NOK	578
Paraguayan Guarani	PYG	600
Polish Zloty	PLZ	616
Portuguese Escudo	PTE	620
Romanian Leu	ROL	642
Saudi Riyal	SAR	682
Singapore Dollar	SGD	702
South African Rand (financial)	ZAL	991
Spanish Peseta	ESP	724
Swedish Krona	SEK	752
Swiss Framc	CHF	756
Turkish Lira	TRL	792
United Kingdom Pound Sterling	GBP	826
United States Dollar	USD UYP	840 858
Uruguayan Peso Venezuelan Bolivar	VEB	858 862
Gold	XAU	862 959
Guid	AAU	909

The list above is not comprehensive, but is representative of codes employed. A full list of Codes for Representation of Currencies and Funds (ISO 4217) is available from:

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

25 West 43rd Street New York, NY 10036 (212) 642-4900 http://webstore.ansi.org/ansidocstore/find.asp? (This Annex is not part of American National Standard ANSI MH10.8.2)

ANNEX H

ISO 3166-1 Country Code

ISO 3166-1 Country Code

DEFINITION	ALPHA-2	ALPHA-3	NUMERIC
	CODE	CODE	CODE
DEFINITION Non-specific Country Argentina Australia Austria Belgium Brazil Canada Denmark Finland France Germany Greece Hong Kong Iceland India Ireland Israel Italy Japan Luxembourg Mexico Netherlands New Zealand Norway Paraguay Poland Portugal Romania Saudi Arabia Singapore South Africa Spain			
Sweden	SE	SWE	752
Switzerland	CH	CHE	756
Turkey	TR	TUR	792
United Kingdom	GB	GBR	826
United States of America	US	USA	840
Uruguay	UY	URY	858
Venezuela	VE	VEN	862

The list above is not comprehensive, but is representative of codes employed. A full list of Codes for the representation of names of countries and their subdivisions -- Part 1: Country codes (ISO 3166-1) is available from:

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) 25 West 43rd Street New York, NY 10036 (212) 642-4900 http://webstore.ansi.org/ansidocstore/find.asp? This Annex is not part of American National Standard ANSI MH10.8.2.)

ANNEX I

Data Identifier and Application Identifier Request Forms

Included are two request forms, one for new Data Identifiers and another for new Application Identifiers. Where the end user finds that the identifiers described in this document are insufficient, these request forms should be used as appropriate.

Rev. ANS MH10.8.2-9354 (DI)

Reference:	
Date:	

ANS MH10.8.2 DATA IDENTIFIER REQUEST FORM

ALL REQUESTS MUST BE TYPED or printed legibly in black ink. Complete all parts. Submit to: Craig K. Harmon, Chairman, ASC MH 10 Data Identifier Maintenance Committee c/o Q.E.D. Systems
Courier: 3963 Highlands Lane, SE, Cedar Rapids, IA 52403-2140 USA
Mail: P.O. Box 2524, Cedar Rapids, IA 52406-2524 USA
(V): +1 319/364-0212 * (F): +1 319/365-8814 * (M): +1 319/533-8092
(E): craig.harmon@qed.org * (U1): http://www.autoid.org
Incomplete forms or those with inadequate support for the change requested will be returned to the submitter. Submitters are notified of the status of the work request following review by the ANS MH10.8.2 DI Maintenance Committee.

Request for:	New Data Identifier Data Identifier Interpretation
Organization:	
Contact Person:	
Address:	
Telephone:	
Telefax:	

1. **PROPOSED DATA IDENTIFIER**

Provide a short description (20 words or less) which would be included as a description for the proposed Data Identifier. For an interpretation, provide a comprehensive description of the aspect of the identifier that needs interpretation.

Page 2 (Data Identifier Request)

2. BUSINESS CASE

Explain why you need the proposed assignment. Provide a complete scenario that tells what the business function, operation, or problem is that will be satisfied by a new assignment to the ANS MH10.8.2 Data Identifier Standard. If the proposed DI is already in use by your organization, please identify how long this identifier has been in use and other organizations you are aware of who employ the same identifier. The ANS MH10.8.2 DI Maintenance Committee requires enough information to be able to propose an alternate solution if necessary. Be specific because this will also appear in the ANS MH10.8.2 Voting Package and will be the only information that voters have on which to base their vote.

Page 3 (Data Identifier Request)

3. **DEFINITIONS**

Definitions for new assignments and for industry-specific terms must be complete. For new ANS MH10.8.2 DI, provide a proposed assignment and a DI definition. RULES: (1) Acronyms/abbreviations cannot be added to the standards - they must be spelled out. (2) Provide an expanded assignment definition for each DI which is not completely self-explanatory, that is, terms that are not in general business use or that are industry specific. (3) Provide code source references for all externally published (non-ANS MH10.8.2) code lists cited (use the Form for New or Revised Code Source Reference). If one exists, provide a precise description of the structure of the data as foreseen by your organization for this application. Indicate data elements involved and their formal (numeric, alphanumeric, fixed or variable length, number of decimals). Indicate the business function of each data element in the application.

Page 4 (Data Identifier Request)

4. MEDIA AND APPLICATION USE

- With what media (e.g., bar code, 2D symbol, RF tag, etc.) do you intend to use the proposed Data Identifier?
- At what stage will the Data Identifier and data be created and applied?
- On to what and when will the media be applied (package, label, tag, document, . . .)?
- Why does the information need to be machine-readable?
- When and where is the media read?
- Describe the use of the Data Identifier by other users than the originator:
- What is the number of potential users?

5. Justification

Describe the benefits (hard and soft savings) expected from the application.

6. Additional Information Feel free to attach any addition information related to your organization and the application.

Date:

Signature:

Data Identifier Data Dictionary Record

Data Dictionary Detailed Entry							
NAME:				Versi	on		Кеу
XML Tag:						DI:	
Definition:							
Class:			lphanumeric/Bina	ary R	emarks:		
Decimals:	Yes	/ No					
Min_Length:							
Max_Length:							
Case Sensitiv	e: Yes	/No					
Business Rul	es:						
Data Element Source/Authority:							
APPLICATION AREAS							
Area	Application		Category	Rema	irks		
USES							
Application A	rea	Usa	ge		Туре		Specific Use
ALIAS: Production Date							
^a Table footnote.							

Rev. ANS MH10.8.2-4324 (AI)

Reference:	
Date :	

Please return to:

GS1 Attn: Technical Director Blue Tower Avenue Louise, 326 BE 1050 Brussels, Belgi (V): +32 2 788 7800 (F): +32 2 788 7899 (U): http://www.gs1.org	Princeton Pike Corporate Center 1009 Lenox Drive, Suite 202 um Lawrenceville, NJ 08648 (V): +1 609 620 0200 (F): +1 609 620 1200			
GS1 APPLICATION IDENTIFIER STANDARD				
Request for:	 New Application Identifier Modification to Existing Application Identifier 			
Organization:				
Contact Person:				
Address:				
-				
-				
Telephone:				
Telefax:				

1. Organization Description

Describe below, the organization issuing the request. Indicate the specific type of activities performed and their scope of application: industrial sector, national or international representation

Page 2

2. <u>Application Description</u>

Provide concise description of the business application for which the Application Identifier is required.

3. Data Structure

Give a precise description of the structure of the data as foreseen by your organization for this application. Indicate data elements involved and their formal (numeric, alphanumeric, fixed or variable length, number of decimals). Indicate the business function of each data element in the application. Page 3

- 4. Usage of Bar Code Technology
- At what stage will the Application Identifier and data be created and applied?
- Where and when will the bar code be printed (package, label, tag, document, . . .)?
- Why does the information need to be bar cod marked and read?
- When and where is the bar code read?
- Describe the use of the Application Identifier by other users than the originator:
- What is the number of potential users?
- 5. Justification

Describe the benefits (hard and soft savings) expected from the application

6. Additional Information

Feel free to attach any addition information related to your organization and the application.

v06a

Signature:

(This Annex is not part of American National Standard ANSI MH10.8.2.)

ANNEX J

User Guidance (Informative)

USER GUIDANCE (INFORMATIVE)

The choice of Application or Data Identifiers will normally be defined in the applicable industry convention being followed. Industries and companies following the GS1 system of bar codes for retail and general trade goods should use Application Identifiers. Other industries developing product or shipment identification conventions should consider business practices, information requirements, and systems capabilities of the trading partners in choosing between Data and Application Identifiers.