

DOCUMENT MAINTENANCE SUMMARY

This document has had the following changes since the approval of ANS MH10.8.2:2002 by ASC MH 10/SC 8. 2001 dates were changes not included in the 2002 base document, but included in the Under Continuous Maintenance provisions.

Date	Action	Summary
2001-01-27	Add	"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 is # 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.
2001-01-27	Add	"5J" - Field Length – an . . . 20 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.
2001-01-27	Add	"6J" - Field Length – an . . . 20 Unique license plate number assigned to a master transport unit containing like items on a single customer transaction and may or may not have associated EDI data.
2001-01-27	Add	"21V" - 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.
2001-01-27	Add	"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 CIN.
2001-02-09	Add	"7B" - 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 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 a modulus 11 check digit calculated in accordance with Annex A, ISO 6346.
2001-02-09	Add	"8B" - Identification of a returnable container owner assigned in cooperation with BIC
2001-02-09	Add	"9B" - Container Type as defined in (ISO 6346)
2001-06-25	Add	"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
2001-07-12	Add	"F" – Looping Structures in accordance with Section VI

Date	Action	Summary
2001-12-18	Add	"5U" – Specification of a postal service and associated process data in accordance with UPU standard S25 data construct "Service Data"
2001-12-18	Add	"15U" – Specification of supplementary postal service and associated process data in accordance with UPU standard S25 data construct "Supplementary Service Data".
2001-12-18	Add	"55U" – OCR Data Locator
2002-01-09	Retire	"2V" – Restate as "Prior Assignment" Not to be reused for 5 years
2002-01-09	Retire	"3V" – Restate as "Prior Assignment" Not to be reused for 5 years (May be reinstituted depending on GS1 implementation of AI "776")
2002-03-24	Change	Correct Address for ANSI
2002-10-09	Add	"18S" – CAGE + Serial Number
2003-03-07	Change	"17V" – field length changed from 6 to 5
2003-07-04	Update	Document updated to reflect all changes in GS1 AIs as of 1 January 2003
2003-07-04	Update	Document updated in sections other than listings of DIs and AIs to reflect the most recent approvals, e.g., listings of Categories to include "Looping"
2003-07-04	Update	"18V" - Acronym for <i>Nederlands Normalisatie-instituut</i> from NNI to NEN
2003-07-04	Add	"18V" - URL for 15459 Issuing Agency Code
2003-09-04	Re-instate	"3V" - Fabricator Code (GS1 Company Prefix) as assigned by the appropriate GS1 authority (Numbering Organization)
2004-02-09	Add	"10B" 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
2004-02-15	Add	"96S" 96-bit EPC Code (EPCglobal)
2004-06-06	Add	"11B" Van Number (complete number minus check digit)
2004-06-06	Add	"12B" Check digit of Van Number identified in 11B
2004-06-06	Add	"13B" Container Number Code (last 5 digits of number not counting check digit)
2004-06-06	Add	"20D" Inspection Date (DDMMYYYY)
2004-06-06	Add	"21D" Required Delivery Date (DDD Julian) or DOD MILSTAMP Code
2004-06-06	Add	"22D" Record Date Time Stamp (YYYYMMDDTTTT) where T equals hour and minutes
2004-06-06	Add	"E" Temperature in whole degrees in the format: Temperature followed by a two-character code from ANSI X12 table 355 (acceptable values are CE or FA).
2004-06-06	Add	"1E" Air pressure – (altitude) expressed in Pascal's as the standard international measure
2004-06-06	Add	"10E" Cumulative Time Temperature index – expressed as the number of measurements or counts
2004-06-06	Add	"11E" Time Temperature Index – Next Higher Assembly – expressed as the number of measurements or counts
2004-06-06	Add	"5H" Last Name
2004-06-06	Add	"10H" Personal Identification Code (first initial, Last Initial, last four of SSN)
2004-06-06	Add	"11H" First name and middle initial

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2004-06-06	Add	12H" Military Grade (E1-E9, W1-W5, and O1-O10)
2004-06-06	Add	"7J" Vehicle Registration License Plate Number (not unique without identification of country and issuing governmental region/authority)
2004-06-06	Add	"19K" Foreign Military Sales Case Number
2004-06-06	Add	"8L" Port of Embarkation – Mutually defined
2004-06-06	Add	"9L" Port of Debarkation – Mutually defined
2004-06-06	Add	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
2004-06-06	Add	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
2004-06-06	Add	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
2004-06-06	Add	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
2004-06-06	Add	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://www.tpub.com/content/aviation/12324/
2004-06-06	Add	"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/j-6/dlmso/eLibrary/Manuals/MILSTRIP/Reissue2004/MILSTRIPfileformats.asp in Appendix 2
2004-06-06	Add	"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)
2004-06-06	Add	"26P" Part Number of next higher assembly
2004-06-06	Add	"16Q" Number of pieces in Van
2004-06-06	Add	"17Q" Number of shipments in van
2004-06-06	Add	"18Q" Cube expressed in cubic meters or cubic feet – the ANSI X12 .3 data element number 355 unit of measure code (CR or CF) No implied decimal point.
2004-06-06	Add	"19Q" Width expressed in linear meters or linear feet the ANSI X12.3 data element number 355 unit of measure (LC or LF) No implied decimal point.
2004-06-06	Add	"20Q" Height 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.
2004-06-06	Add	"21Q" 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.

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2004-06-06	Add	"22Q" 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.												
2004-06-06	Add	"23Q" 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.												
2004-06-06	Add	"24Q" 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												
2004-06-06	Add	"25Q" Net explosive weight (a computed value of explosive equivalent expressed in pounds of TNT). The measure NEW, is used internationally for explosive safety quantity distance arc computations. No implied decimal point												
2004-06-06	Add	"33S" Serial number of Next higher assembly												
2004-06-06	Add	"34S" Serial number or Part number of End Item												
2004-06-06	Add	"35S" Bumper Number (Used in Unit DOD Move)												
2004-06-06	Add	"36S" Pallet Identifier (Used for loaded 463L air pallets)												
2004-06-06	Add	"5W" Work Unit Code – identifies system, subsystem, assembly, component etc. on which maintenance is performed												
2004-06-06	Add	"6W" Nomenclature - (internally assigned or mutually defined)												
2004-06-06	Add	"10W" Form Control Number – Preprinted control number on forms												
2004-06-06	Add	"11W" Quality Assurance Inspector – Last Name												
2004-06-06	Add	"12W" Telephone number of the person/activity completing the form – expressed in the format (country code) city or area code plus local number i.e. (1) 319 555 1212												
2005-03-30	Add	"25B" Identification of a party to a transaction as identified in 18V, followed by the supplier assigned serial number to a returnable transport item (RTI).												
2005-07-24	Add	"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.aimglbal.org/)												
2005-09-23	Add	<p>"23D" - Date, represented in modified UTC compliant form: yyyy[mm[dd[hh[mm[ss[fff]]]]]]][poooo] where square brackets indicate optionality and yyyy is the year, mmdd the month and day, hhmmss the time of day in hours minutes and seconds, fff the fractions of seconds and poooo the offset from UTC expressed in hours and minutes, the offset being positive if p is a point (.), negative if P is a minus sign (-)</p> <p>EXAMPLE:</p> <table><tr><td>2005</td><td>(UTC) calendar year 2005</td></tr><tr><td>200505</td><td>(UTC) calendar month May 2005</td></tr><tr><td>20050518</td><td>(UTC) 18 May 2005</td></tr><tr><td>200505181247</td><td>12:47 UTC on 18 May 2005</td></tr><tr><td>200505181247.0100</td><td>12:47 local time, being 11:47 UTC, on 18 May 2005</td></tr><tr><td>20050518124723099</td><td>99 milliseconds after UTC 12:47:23 on 18 May 2005</td></tr></table>	2005	(UTC) calendar year 2005	200505	(UTC) calendar month May 2005	20050518	(UTC) 18 May 2005	200505181247	12:47 UTC on 18 May 2005	200505181247.0100	12:47 local time, being 11:47 UTC, on 18 May 2005	20050518124723099	99 milliseconds after UTC 12:47:23 on 18 May 2005
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Date	Action	Summary
2005-09-23	Add	<p>“24D” Qualified date, comprising the concatenation of:</p> <ul style="list-style-type: none"> – an ISO/IEC 15459 issuing agency code; – a date qualifier conforming to the specifications of that issuing agency; – a date whose format and interpretation comply with the specifications of the issuing agency for that date qualifier
2005-09-23	Add	<p>“20K” Licence identifier, being a globally unique identifier for a licence or contract under which items are generated, submitted for processing and/or paid for, that is constructed by concatenating:</p> <ul style="list-style-type: none"> – an ISO/IEC 15459 issuing agency code; – a licence or contract number which accords with specifications of the issuing agency concerned; <p>and that:</p> <ul style="list-style-type: none"> – 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 agency^{Error! Bookmark not defined.}; <p>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^{Error! Bookmark not defined.}.</p>
2005-09-23	Add	<p>“21K” Customer data, being data that:</p> <ul style="list-style-type: none"> – from a customer perspective, is related to or associated with an item or transaction, or to a batch of related items or transactions, and – comprises up to 35 printable characters and/or spaces, other than plus (+), drawn from the character set defined in ISO/IEC 646.
2005-09-23	Add	<p>“22K” Transaction authentication information, being a value, constructed by concatenating:</p> <ul style="list-style-type: none"> – an ISO/IEC 15459 issuing agency code; – a value which accords with specifications of the issuing agency concerned, <p>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:</p> <ul style="list-style-type: none"> – 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.

Date	Action	Summary
2005-09-23	Add	<p>“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:</p> <ul style="list-style-type: none"> – an ISO/IEC 15459 issuing agency code; – an equipment number which accords with specifications of the issuing agency concerned; <p>and that:</p> <ul style="list-style-type: none"> – 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 agency^{Error! Bookmark not defined.}; – 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^{Error! Bookmark not defined.}.
2005-09-23	Add	<p>“27S” Item number within batch, being a string of numeric digits:</p> <ul style="list-style-type: none"> – <i>that uniquely distinguishes an item, within an identifiable batch of related items, from all other items in the same batch;</i> – <i>whose length is the same for all items within the batch concerned.</i>
2005-09-23	Add	<p>“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.</p>
2005-09-23	Add	<p>“26T” Batch identifier comprising the concatenation of either:</p> <ul style="list-style-type: none"> – a data identifier 26S mail processing equipment identifier, or – a data identifier 20K licence identifier, or – a data identifier 18V party identifier that: <ul style="list-style-type: none"> – is distinct from any other ISO/IEC 15459 compliant identifier within the domain of the issuing agency concerned^{Error! Bookmark not defined.}; – 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^{Error! Bookmark not defined.}. <p>with a data identifier 27T batch number, the two being separated by a dash (-) character¹.</p>

¹ 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.

Date	Action	Summary
2005-09-23	Add	<p>"27T" Batch number, issued under the control of an identified party or unit of processing equipment, or under the provisions of an identified licence, that:</p> <ul style="list-style-type: none"> – 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 licence, 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}
2005-09-23	Add	"6U" Licensing post data, in accordance with the specification in UPU standard S25.
2005-09-23	Add	"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 mail item or batch.
2005-09-23	Add	<p>"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 of the structures defined in (Error! Reference source not found. to (Error! Reference source not found. below:</p> <ol style="list-style-type: none"> 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; 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; 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; 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 nor more than 35 characters in length, of: <ul style="list-style-type: none"> – an ISO/IEC 15459 issuing agency code; – a location code, consisting of characters drawn from the set {A-Z; 0-9} which accords with specifications of the issuing agency concerned.

Date	Action	Summary
2005-09-23	Add	<p>“17U” 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 (Error! Reference source not found. to (Error! Reference source not found. below:</p> <ol style="list-style-type: none"> 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; 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; 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; 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; six upper case alphanumeric characters corresponding to a UPU IMPC code allocated in accordance with UPU standard S34; the concatenation, being not less than seven nor more than 25 characters in length, of: <ol style="list-style-type: none"> 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 concerned.
2005-09-23	Add	<p>18U Qualified UPU location code, concatenation of:</p> <ul style="list-style-type: none"> a location category drawn from UPU code list 139; a data identifier 17U UPU location code
2005-09-23	Add	<p>19U 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:</p> <ul style="list-style-type: none"> 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. <p>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 alphabetic, 17U applies.</p>

Date	Action	Summary
2006-01-12	Change	"E" to Restricted Substances 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"
2006-02-17	Add	<p>C.11 Unique Identification of Items</p> <p>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 that 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.</p> <p>The 18V segment is as defined in section 1.</p> <p>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 segment are:</p> <p style="padding-left: 40px;">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)</p> <p>Data strings following 18V should not be parsed to obtain the component data elements.</p>
2006-02-17	Change	Updated all UCC and EAN references to GS1 references according to the GS1 General Specification Version 7.0
2006-02-17	Delete	AI 23 – Lot Number (Transitional Use)
2006-02-17	Add	AI 254 – GLN Extension
2006-02-19	Modified	<p>Added an explanatory note for the term Data Identifier</p> <p>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.</p>
2006-02-20	Modified	<p>Added an explanatory note for Category 10 - Licence Plate</p> <p>NOTE: An exception to this specific definition 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)</p>
2006-02-26	Clarified	Clarified description of 18Q through 24Q by adding "followed by"