# 841 Specifications/Technical Information

# Functional Group=**SP**

Purpose: This Draft Standard for Trial Use contains the format and establishes the data contents of the Specifications/Technical Information Transaction Set (841) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to transmit or request specifications or technical information between trading partners. It can be used to transmit engineering change and engineering change requests. It can also be used to allow EDI trading partners the ability to exchange a complete or partial technical description of a product, process, service, etc. over the same path as any other EDI transaction. The detail area can include graphic, text, parametric, tabular, image, spectral, or audio data. A transmission includes identification information to assist the receiver in interpreting and utilizing the information included in the transaction. Further action as a consequence of the receipt and initial processing of the specification or other technical data may or may not require human intervention. The transmission and receipt of the data may require private agreement between the trading partners to automate the receipt of the data. The total transaction must be in the general form of all ASC X12 transactions so that an EDI computer system will be able to automatically recognize it as a Specification/Technical Information Transaction Set and pass it on for processing of the data itself. The transaction set is not media dependent. The detail area of the Specification/Technical Information Transaction Set provides a structure which allows for the exchange of a variety of specification information. For example, if the transaction contains information describing a complete assembly, it would be necessary to include the assembly model, the models for each of the individual parts, and the associated specifications. In the case of a process it may be necessary to transmit the specification of the product along with the specifications of the process and raw materials. This transaction set can also be linked to other transaction sets. This transaction set is not limited to a specific transmission protocol and uses other standards as applicable where they do not conflict with these requirements for specification transaction.

## **DLMS Note:**

1. This 841W, Hazardous Material/Hazardous Waste Profile transaction is intended for use by DLA's Distribution Standard System and Component generating systems supporting Disposition Services processing hazardous material/waste for turn-in/disposal to DLA Disposition Services.

2. This transaction will be used to convey the information described in the Generator Communications (GenComm) Interface Standard Version 5.0.0. See DLM 4000.25, Volume 2, Appendix 9.

3. Users operating under the Defense Logistics Management Standards (DLMS) must reference the Unit of Issue and Purchase Unit Conversion Table and the Transportation Mode of Shipment Conversion Table which can be found on the Defense Enterprise Data Standards Office (DEDSO) Web site at http://www.dla.mil/dlms.

4. This entire DLMS Implementation Convention (IC) is considered an authorized DLMS enhancement authorized for implementation by modernized systems under DLMS migration. This transaction should be adopted during, or subsequent, to modernization when applicable to the Component's business process. Prior coordination is not required. Components should ensure that inclusion of this DLMS transaction does not cause inappropriate rejection of the transaction.

5. This revision to the DLMS IC incorporates Proposed DLMS Change (PDC) and Approved DLMS Changes (ADCs) listed. PDCs and ADCs are available from the DEDSO Web site: http://www.dla.mil/HQ/InformationOperations/DLMS/eLibrary/Changes/processchanges/

- ADC 1131, New DLMS Implementation Convention (IC) 841W, Hazardous Material/Hazardous Waste (HM/HW) Profile and New DLMS IC 856W, Hazardous Material/Hazardous Waste Shipment Status

- Administrative Update to Reflect Realignment to Recognize DLMS Program Office Completed on December 29, 2016

- Administrative Update to Reflect Realignment of DLMS Program Office to Enterprise Business Standards Office (EBSO) - Completed on January 27, 2020

- ADC 1367, Administrative Update to Convert Federal Notes to DLMS Notes within DLMS Implementation Conventions

- Administrative Update to Reflect Realignment of Enterprise Business Standards Office (EBSO) to Defense Enterprise Data Standards Office (DEDSO) - Completed on July 26, 2023

- ADC 1433, Data Element Additions to Update DLMS 841W, DLMS 856S, and DLMS 824R

## Heading:

Pos	ld	Segment Name	<u>Req</u>	Max Use	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
0100	ST	Transaction Set Header	М	1			Must use
LOOP IE	) - SPI				<u>&gt;1</u>		
0200	SPI	Specification Identifier	М	1			Must use
* 0300	RDT	Revision Date/Time	0	>1			Not Used
* 0400	NTE	Note/Special Instruction	0	>1			Not Used
* 0500	X1	Export License	0	1			Not Used
* 0600	X2	Import License	0	1			Not Used
* 0700	X7	Customs Information	0	1			Not Used
* 0800	AMT	Monetary Amount	0	>1			Not Used
LOOP IE	) - REF				>1		

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Hazardous Material/Hazardous Waste Profile

	<u>Pos</u>	ld	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>	
	0900	REF	Reference Identification	0	1			Used	
	1000	DTM	Date/Time Reference	0	>1			Used	
*	1100	PER	Administrative Communications Contact	0	>1			Not Used	
	LOOP ID -	<u>N1</u>				<u>&gt;1</u>			
	1200	N1	Name	0	1			Used	
*	1300	N2	Additional Name Information	0	2			Not Used	
*	1400	N3	Address Information	0	2			Not Used	
*	1500	N4	Geographic Location	0	>1			Not Used	
*	1600	REF	Reference Identification	0	>1			Not Used	
*	1700	PER	Administrative Communications Contact	0	>1			Not Used	

# Detail:

			Ney	wax use	Repeat	Notes	<u>Usage</u>
LOOP ID -	HL				<u>&gt;1</u>	<u>N2/0100L</u>	
0100	HL	Hierarchical Level	М	1		N2/0100	Must use
LOOP ID -	SPI				<u>&gt;1</u>		
0200	SPI	Specification Identifier	0	1			Used
0300	RDT	Revision Date/Time	0	>1			Used
* 0330	PRR	Problem Report	0	>1		C2/0330	Not Used
* 0340	PRT	Part Disposition	0	>1		C2/0340	Not Used
* 0350	PRS	Part Release Status	0	1		C2/0350	Not Used
0400	LIN	Item Identification	0	1		C2/0400	Used
* 0460	PER	Administrative Communications Contact	0	>1			Not Used
* 0500	MSG	Message Text	0	>1			Not Used
LOOP ID -	<u>N1</u>				<u>&gt;1</u>		
0510	N1	Name	0	1			Used
0520	N2	Additional Name Information	0	2			Used
0530	N3	Address Information	0	2			Used
0540	N4	Geographic Location	0	>1			Used
0550	PER	Administrative Communications Contact	0	>1			Used
0560	N9	Reference Identification	0	>1	-		Used
LOOP ID -	PID				<u>&gt;1</u>		
0600	PID	Product/Item Description	0	1			Used
0650	PKD	Packaging Description	0	>1			Used
0700	QTY	Quantity	0	>1			Used
0740	MEA	Measurements	0	>1			Used
* 0750	UIT	Unit Detail	0	>1			Not Used
0760	LOC	Location	0	1			Used
* 0770	PWK	Paperwork	0	>1			Not Used
LOOP ID -	PKG				<u>&gt;1</u>		
0780	PKG	Marking, Packaging, Loading	0	1			Used
* 0790	MEA	Measurements	0	>1			Not Used
LOOP ID -	REF				<u>&gt;1</u>		
0800	REF	Reference Identification	0	1			Used
* 0900	DTM	Date/Time Reference	0	>1			Not Used
* 1000	PER	Administrative Communications Contact	0	>1			Not Used

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<u>>1</u>

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Hazardous Material/Hazardous Waste Profile

<u>P</u>	os	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
1	030	LX	Assigned Number	0	1			Used
* 1	050	LIN	Item Identification	0	1			Not Used
* 1	070	TMD	Test Method	0	1			Not Used
1	100	MEA	Measurements	Μ	>1			Must use
1	120	PSD	Physical Sample Description	0	>1			Used
* 1	140	SPS	Sampling Parameters for Summary Statistics	0	>1			Not Used
* 1	200	DTM	Date/Time Reference	0	>1			Not Used
* 1	300	REF	Reference Identification	0	>1			Not Used
*	LOOP ID	- EFI				<u>&gt;1</u>		
* 1	400	EFI	Electronic Format Identification	0	1			Not Used
* 1	600	BIN	Binary Data	0	1			Not Used
L	OOP ID -	CID				>1	C2/1700L	
1	700	CID	Characteristic/Class ID	0	1	_	C2/1700	Used
1	800	UIT	Unit Detail	0	1			Used
* 1	900	TMD	Test Method	0	>1			Not Used
* 2	000	PSD	Physical Sample Description	0	1			Not Used
* 2	010	CSS	Conditional Sampling Sequence	0	1		N2/2010	Not Used
* 2	100	SPS	Sampling Parameters for Summary Statistics	0	1			Not Used
2	200	MSG	Message Text	0	>1			Used
*	LOOP ID	- MEA				<u>&gt;1</u>		
* 2	300	MEA	Measurements	0	1			Not Used
* 2	400	DTM	Date/Time Reference	0	>1			Not Used
* 2	500	REF	Reference Identification	0	>1			Not Used
*	LOOP ID	- STA				<u>&gt;1</u>		
* 2	600	STA	Statistics	0	1			Not Used
* 2	700	DTM	Date/Time Reference	0	>1			Not Used
* 2	800	REF	Reference Identification	0	>1			Not Used
*	LOOP ID	- CSF				<u>&gt;1</u>	<u>CN2/2820L</u>	
* 2	820	CSF	Conditional Sampling Frequency	0	1		CN2/2820	Not Used
*	LOOP ID	- LS				<u>1</u>		
* 2	830	LS	Loop Header	0	1			Not Used
*	LOOP ID	- CID				<u>&gt;1</u>	<u>CN2/2840L</u>	
* 2	840	CID	Characteristic/Class ID	0	1		CN2/2840	Not Used
* 2	850	MEA	Measurements	0	1		C2/2850	Not Used
* 2	860	STA	Statistics	0	1		C2/2860	Not Used
* 2	870	LE	Loop Trailer	М	1			Not Used
*	LOOP ID	- EFI				<u>&gt;1</u>		
* 2	900	EFI	Electronic Format Identification	0	1			Not Used
* 3	100	BIN	Binary Data	0	1			Not Used

# Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
0100	SE	Transaction Set Trailer	М	1			Must use

## Notes:

To be meaningful, at least one of the SPI, PID, REF, MEA, EFI or CID loops must be present with each occurrence of the HL loop.
 To be meaningful, at least one of the SPI, PID, REF, MEA, EFI or CID loops must be present with each occurrence of the HL loop.
 The sampling sequence specified in the CSS segment will take precedence over any other sampling rate (PSD03, PSD09, SPS06, CSF02, and CSF03) from the point the CSS01 event occurs until the specified sequence is completed.
 If no other sampling is specified, then only the sampling indicated in this segment is performed when the CSS01 event occurs.

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- 2/2820L The sampling rate specified is the CSF segment. It would take precedence over the normal sampling rate specified in PSD03 while the conditions of the CSF segment are satisfied, but would NOT take precedence over the sampling sequence activated by the proposed CSS segment. If no other sampling rate is specified, then the only sampling indicated in the CSF segment is performed while the CSF conditions are met. Sampling will cease when the conditions are no longer met. Conditional values specified in DE 740 (Range Minimum) will be interpreted as "greater than or equal to this value." Values specified in DE 741 (Range Maximum) will be interpreted to mean "less than or equal to this value." The sampling rate specified is the CSF segment. It would take precedence over the normal sampling rate specified in PSD03 while 2/2820 the conditions of the CSF segment are satisfied, but would NOT take precedence over the sampling sequence activated by the proposed CSS segment. If no other sampling rate is specified, then the only sampling indicated in the CSF segment is performed while the CSF conditions are met. Sampling will cease when the conditions are no longer met. Conditional values specified in DE 740 (Range Minimum) will be interpreted as "greater than or equal to this value." Values specified in DE 741 (Range Maximum) will be interpreted to mean "less than or equal to this value."
- 2/2840L Either the MEA segment or the STA segment must occur, but not both.
- 2/2840 Either the MEA segment or the STA segment must occur, but not both.

# Comments:

- 2/0330 The PRR segment contains the reason for an engineering change.
- 2/0340 The PRT segment is used to describe what should be done with the parts or assemblies specified in the preceding SPI segment.
- 2/0350 The PRS segment is used to tell the current status of the parts specified in the SPI segment required to make the change.
- 2/0400 The repeated pairs of 234 and 234 data elements in the LIN segment can be used to list where this modified part or assembly is used.
- 2/1700L The CID segment may be used to define either a general class of properties, such as physical properties, or an individual property within a class. The CID loop allows the user the ability to define specifications such as the properties of the item or class, the environmental conditions under which the specifications apply, the test methods to be used, and other parameters related to properties within the current HL hierarchical level.
- 2/1700 The CID segment may be used to define either a general class of properties, such as physical properties, or an individual property within a class. The CID loop allows the user the ability to define specifications such as the properties of the item or class, the environmental conditions under which the specifications apply, the test methods to be used, and other parameters related to properties within the current HL hierarchical level.
- 2/2820L Repetitions of the CSF loop allow several frequency changes (and the conditions that would trigger those changes) to be specified. If the conditions are such that several CSF values are activated at the same time, the value with the highest sampling rate shall prevail.
- 2/2820 Repetitions of the CSF loop allow several frequency changes (and the conditions that would trigger those changes) to be specified. If the conditions are such that several CSF values are activated at the same time, the value with the highest sampling rate shall prevail.
- 2/2840L The CID loop within the CSF loop is used to specify the conditions that will trigger activation of the conditional value in the CSF segment.
  - Repetitions of the CID loop will have an implied logical AND between the conditions set in each iteration.
- 2/2840 The CID loop within the CSF loop is used to specify the conditions that will trigger activation of the conditional value in the CSF segment.

Repetitions of the CID loop will have an implied logical AND between the conditions set in each iteration.

- 2/2850 The elements of the CID segment identify the conditional property. If the property is a measurement from within the manufacturing process of a plant environment, rather than the product, the segment also identifies the location where the measurements are to be observed.
- 2/2860 If the condition is based on single test measurements, the MEA segment is used to specify the units of measure, and the open or closed numeric range of the conditional test.



Pos: 0100	Max: 1
Heading - M	landatory
Loop: N/A	Elements: 3

#### User Option (Usage): Must use

Purpose: To indicate the start of a transaction set and to assign a control number

## Semantics:

- 1. The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
- 2. The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition.

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
ST01	143	Transaction Set Identifier Code	М	ID	3/3	Must use	1
		<b>Description:</b> Code uniquely identifying a Transaction Set					
		CodeName841Specifications/Technical Information					
ST02	329	Transaction Set Control Number	М	AN	4/9	Must use	1
		<b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set					
ST03	1705	Implementation Convention Reference	0	AN	1/35	Used	1
		<b>Description:</b> Reference assigned to identify Implementation Convention					
		DLMS Note: Use to indicate this transmission uses the DLMS IC 841W. Enter the DLMS IC (e.g., 004030F841W0WA00).					



Pos: 0200	Max: 1
Heading - M	landatory
Loop: SPI	Elements: 1

## User Option (Usage): Must use

Purpose: To provide a description of the included specification or technical data items

# Syntax Rules:

1. P0203 - If either SPI02 or SPI03 is present, then the other is required.

# **Element Summary:**

<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
SPI01	786	Security Level Code	М	ID	2/2	Must use	1
		<b>Description:</b> Code indicating the level of confidentiality assigned by the sender to the information following					

# Code Name

ZZ Mutually Defined

**DLMS Note:** 

Use code "ZZ" for this data element to satisfy mandatory X12 syntax requirements.

# **REF** Reference Identification

Pos: 0900	Max: 1
Heading -	Optional
Loop: REF	Elements: 2

## User Option (Usage): Used

Purpose: To specify identifying information

## **Syntax Rules:**

1. R0203 - At least one of REF02 or REF03 is required.

## Semantics:

1. REF04 contains data relating to the value cited in REF02.

<u>Ref</u> REF01	<u>ld</u> 128	<u>Element Name</u> Reference Identification Qualifier	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 2/3	<u>Usage</u> Must use	<u>Rер</u> 1
		<b>Description:</b> Code qualifying the Reference Identification					
		Code Name V0 Version					
REF02	127	Reference Identification	Х	AN	1/50	Used	1
		<b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier					
		<b>DLMS Note:</b> Use to identify the Generator's Software Release Version Number. Data value restricted to a maximum of 50 characters.					



Pos: 1000	Max: >1
Heading -	Optional
Loop: REF	Elements: 4

Purpose: To specify pertinent dates and times

## **Syntax Rules:**

- 1. R020305 At least one of DTM02, DTM03 or DTM05 is required.
- 2. C0403 If DTM04 is present, then DTM03 is required.
- 3. P0506 If either DTM05 or DTM06 is present, then the other is required.

<u>Ref</u>	ld	Element Name	Req	Туре	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
DTM01	374	Date/Time Qualifier	М	ID	3/3	Must use	1
		<b>Description:</b> Code specifying type of date or time, or both date and time					
		Code Name 097 Transaction Creation					
DTM02	373	Date	Х	DT	8/8	Used	1
		<b>Description:</b> Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year					
DTM03	337	Time	Х	ТМ	4/8	Used	1
		<b>Description:</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)					
		<b>DLMS Note:</b> <i>Express time as HHMM.</i>					
DTM04	623	Time Code	0	ID	2/2	Used	1
		<b>Description:</b> Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow					
		Code Name					
		UT Universal Time Coordinate					

# N1 Name

Pos: 1200	Max: 1
Heading - C	ptional
Loop: N1	Elements: 4

### User Option (Usage): Used

Purpose: To identify a party by type of organization, name, and code

## Syntax Rules:

- 1. R0203 At least one of N102 or N103 is required.
- 2. P0304 If either N103 or N104 is present, then the other is required.

# **Comments:**

- 1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
- 2. N105 and N106 further define the type of entity in N101.

## **DLMS Note:**

Must use this 1/N1/1200 loop to identify the organization originating the transaction set.

<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	Type	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
N101	98	Entity Identifier Code	Μ	ID	2/3	Must use	1
		<b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual <u>Code</u> <u>Name</u> HZ Hazardous Waste Generator					
		DLMS Note:					
		Use to identify the Hazardous Materia	al/Hazard	lous Waste	Generator's File	Transfer DoDAAC.	
N103	66	Identification Code Qualifier	х	ID	1/2	Must use	1
		Description: Code designating the system/method of code structure used for Identification Code (67)CodeName10Department of Defense Activity Address	ss Code (	(DODAAC)			
N104	67	Identification Code	х	AN	2/80	Must use	1
		<b>Description:</b> Code identifying a party or other code					
N106	98	Entity Identifier Code	0	ID	2/3	Must use	1
		<b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual					
		<u>Code</u> <u>Name</u> FR Message From					

# **HL** Hierarchical Level

Pos: 0100	Max: 1				
Detail - Mandatory					
Loop: HL	Elements: 3				

#### User Option (Usage): Must use

Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

## Comments:

- 1. The 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.
- 2. The HL segment defines a top-down/left-right ordered structure.
- 3. 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.
- 4. 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.
- 6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

#### DLMS Note:

1. The transaction set hierarchical data structure is address information, followed by Waste Profile Sheet information, followed by Composition Subsection and EPA Waste Number Subsection as applicable.

2. Use the first 2/HL/0100 loop iteration to provide transaction set recipient address information. All other address information is carried in the Waste Profile Sheet loop.

3. Use the second 2/HL/0100 loop iteration to identify the Waste Profile Sheet (WPS) section information.

4. Use an additional 2/HL/0100 loop iteration to identify the Chemical Composition Subsection (Child of the WPS Section) as applicable.

5. Use an additional 2/HL/0100 loop iteration to identify the Environmental Protection Agency (EPA) Waste Number Subsection (Child of the WPS Section) as applicable.

6. If transmitting multiple WPS sheets, use additional loops as needed preserving the parent child relationship ensuring that the Chemical Composition and EPA Waster Number Subsections are aligned with the applicable WPS loop.

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
HL01	628	Hierarchical ID Number	М	AN	1/12	Must use	1
		<b>Description:</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure					
		<b>DLMS Note:</b> In the first 2/HL/0100 loop iteration, cite numeric 1. In each subsequent loop iteration, increase incrementally by 1.					
HL02	734	Hierarchical Parent ID Number	0	AN	1/12	Used	1
		<b>Description:</b> Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to					
		<b>DLMS Note:</b> 1. Use to provide association (parent/child relationship) between the Chemical Composition and EPA Waste Number Subsections with the applicable Waste Profile Sheet. Use in the subordinate (child) loop to identify the HL01 ID Number of the next higher parent loop.					

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<u>Ref</u>	<u>ld</u>	Eleme	ent Name	Req	Type	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>				
		2. Not	applicable to the address loop.									
HL03	735	Hiera	rchical Level Code	М	ID	1/2	Must use	1				
		Descr charac structu	<b>iption:</b> Code defining the cteristic of a level in a hierarchical ure									
	s C k v v is A 7 2 8		<b>Note:</b> The following informational are applicable to this transaction. all loops are used, the HL sequence address), HP (Waste Profile Sheet), chemical Composition Subsection), IE (EPA Waste Number Subsection). B and HE loops are used as able.									
		<u>Code</u>	Name									
		V	Address Information									
			DLMS Note:									
			Use to identify the address loop which per transaction.	ch specifie	es the trans	saction recipient.	Use only one address	loop				
		HE	EPA Waste Number Subsection									
			DLMS Note:									
			1. Use to identify the EPA Waste Number Subsection.									
			2. At this time a local code HE is established for use in 841W, version 4030. A data maintenance action has been submitted for establishment of HE–EPA Waste Number Subsection in a future version.									
		HP	Waste Profile Sheet									
			DLMS Note:									
			1. Use to identify the Waste Profile Sheet.									
			2. At this time a local code HP is established for use in 841W, version 4030. A data maintenance action has been submitted for establishment of HP–Waste Profile Sheet in a future version.									
		KB	Chemical									
			DLMS Note:									
			1. Use to identify the Chemical Com	position S	Subsection.							
			2. Qualifier KB is a migration code a	pproved f	or use in X	12 version 4040.						
		ST	State									
		DLMS Note:										
			Used to identify the State Hazardous X12 version 4040.	s Waste S	Subsection.	ST is a migratic	on code approved for u	se of				

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Pos: 0200	Max: 1				
Detail - Optional					
Loop: SPI	Elements: 3				

Purpose: To provide a description of the included specification or technical data items

## **Syntax Rules:**

1. P0203 - If either SPI02 or SPI03 is present, then the other is required.

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
SPI01	786	Security Level Code	М	ID	2/2	Must use	1
		<b>Description:</b> Code indicating the level of confidentiality assigned by the sender to the information following					
		Code Name					
		99 Government Defined (Trading Partne	r Level)				
SPI02	128	Reference Identification Qualifier	Х	ID	2/3	Used	1
		<b>Description:</b> Code qualifying the Reference Identification <u>Code</u> <u>Name</u> WPN Waste Profile Number					
		DLMS Note:					
		<ol> <li>Use in the HL03 Code HP loop to</li> <li>At this time a local code WPN is a action has been submitted for estable</li> </ol>	o identify ti establishe olishment o	he Waste P d for use in of WPN–Wa	rofile Number. 841W, version 40 aste Profile Numb	030. A data maintena er in a future version	ance 1.
SPI03	127	Reference Identification	х	AN	1/50	Used	1
		<b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier					

Pos: 0300	Max: >1
Detail - O	ptional
Loop: SPI	Elements: 2

Purpose: To specify the revision level of the electronic data item

## **Syntax Rules:**

- 1. C0102 If RDT01 is present, then RDT02 is required.
- 2. L030405 If RDT03 is present, then at least one of RDT04 or RDT05 is required.
- 3. C0605 If RDT06 is present, then RDT05 is required.

<u>Ref</u>	ld	Element Name	<u>Req</u>	Туре	Min/Max	<u>Usage</u>	<u>Rep</u>
RDT03	374	Date/Time Qualifier	0	ID	3/3	Used	1
		<b>Description:</b> Code specifying type of d or time, or both date and time	ate				
		<u>Code</u> <u>Name</u>					
		585 Report					
		DLMS Note:					
		Use in the HL03 Code HP loop	to identify the	Waste Proi	file Established Da	nte.	
RDT04	373	Date	х	DT	8/8	Used	1
		<b>Description:</b> Date expressed as CCYYMMDD where CC represents the two digits of the calendar year	first				



Purpose: To specify basic item identification data

## Syntax Rules:

- 1. P0405 If either LIN04 or LIN05 is present, then the other is required.
- 2. P0607 If either LIN06 or LIN07 is present, then the other is required.
- 3. P0809 If either LIN08 or LIN09 is present, then the other is required.
- 4. P1011 If either LIN10 or LIN11 is present, then the other is required.
- 5. P1213 If either LIN12 or LIN13 is present, then the other is required.
- 6. P1415 If either LIN14 or LIN15 is present, then the other is required.
- 7. P1617 If either LIN16 or LIN17 is present, then the other is required.
- 8. P1819 If either LIN18 or LIN19 is present, then the other is required.
- 9. P2021 If either LIN20 or LIN21 is present, then the other is required.
- 10. P2223 If either LIN22 or LIN23 is present, then the other is required.
- 11. P2425 If either LIN24 or LIN25 is present, then the other is required.
- 12. P2627 If either LIN26 or LIN27 is present, then the other is required.
- P2829 If either LIN28 or LIN29 is present, then the other is required.
- 14. P3031 If either LIN30 or LIN31 is present, then the other is required.

## Semantics:

1. LIN01 is the line item identification

#### Comments:

- 1. See the Data Dictionary for a complete list of IDs.
- LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

<u>Ref</u>	ld	Eleme	ent Name	Req	Type	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
LIN02	235	Produ	ct/Service ID Qualifier	М	ID	2/2	Must use	1
		<b>Descr</b> type/se in Proc	<b>iption:</b> Code identifying the ource of the descriptive number used duct/Service ID (234)					
		<u>Code</u>	Name					
		JP	Package Type Code					
			DLMS Note:					
			Use in the HL03 Code HP loop to ider describing the Packing Type.	ntify the F	Packing Type	e. Insert "BULK", "	DRUM", or a brief na	arrative
LIN03	234	Produ	ct/Service ID	М	AN	1/48	Must use	1
		<b>Descr</b> produc	iption: Identifying number for a ct or service					

# N1 Name

Pos: 0510	Max: 1				
Detail - Optional					
Loop: N1	Elements: 5				

#### User Option (Usage): Used

Purpose: To identify a party by type of organization, name, and code

## **Syntax Rules:**

- 1. R0203 At least one of N102 or N103 is required.
- 2. P0304 If either N103 or N104 is present, then the other is required.

## **Comments:**

- 1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
- 2. N105 and N106 further define the type of entity in N101.

<u>Ref</u>	ld	Element Name	Req	Type	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
N101	98	Entity Identifier Code	М	ID	2/3	Must use	1
		<b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual					
		<u>Code</u> <u>Name</u>					
		HZ Hazardous Waste Generator					
		DLMS Note:					
		Use in the HL03 Code HP loop to name; use the N201 to identify the address.	identify the Technical (	Generator Contact Tit	Name. Use the N le; use the N3 and	I102 to provide the f d N4 to provide the f	acility acility
		ZD Party to Receive Reports					
		DLMS Note:					
		Use in the HL03 Code V loop to in transaction recipient.	lentify the D	LA Disposi	ition Services Fiel	d Office RIC as the	
N102	93	Name	Х	AN	1/60	Used	1
		Description: Free-form name					
N103	66	Identification Code Qualifier	Х	ID	1/2	Used	1
		<b>Description:</b> Code designating the system/method of code structure used for Identification Code (67)					
		Code Name		(7.0)			
		M4 Department of Defense Routing Ide	ntifier Code	(RIC)			
N104	67	Identification Code	Х	AN	2/80	Used	1
		<b>Description:</b> Code identifying a party or other code					
N106	98	Entity Identifier Code	0	ID	2/3	Used	1
		<b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual					
		<u>Code</u> <u>Name</u>					
		TO Message To					
		DLMS Note:					
		Use in the HL03 Code V loop with	N101 Code	ZD to ider	ntify that the DLA	Disposition Services	Field

Code Name

Office RIC is the transaction recipient.

# N2 Additional Name Information

Pos: 0520	Max: 2		
Detail - Optional			
Loop: N1	Elements: 1		

User Option (Usage): Used Purpose: To specify additional names

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
N201	93	Name	М	AN	1/60	Must use	1
		Description: Free-form name					
		<b>DLMS Note:</b> Use in the HL03 Code HP loop with N101 Code HZ to identify the Technical Contact Title at the facility.					



Purpose: To specify the location of the named party

# **DLMS Note:**

1. Use to provide free form lines of an address.

2. Repeat the segment when needing to provide line 3 of an address.

# Flomont Summary

ADC 1131, 1367 and 1433	DLM 4000.25

Pos: 0530	Max: 2			
Detail - Optional				
Loop: N1	Elements: 2			

Element 5	ummary:						
<u>Ref</u>	ld	Element Name	<u>Req</u>	Туре	Min/Max	<u>Usage</u>	<u>Rep</u>
N301	166	Address Information	М	AN	1/55	Must use	1
		Description: Address information					
		<b>DLMS Note:</b> 1. Use in the HL03 Code HP loop with N101 Code HZ to identify line 1 of the facility address.					
		2. Use when needing to provide line 3 of an address in a second instance of the N3.					
N302	166	Address Information	0	AN	1/55	Used	1
		Description: Address information					
		<b>DLMS Note:</b> Use in the HL03 Code HP loop with N101 Code HZ to identify line 2 of the facility address.					



Purpose: To specify the geographic place of the named party

# Syntax Rules:

- 1. E0207 Only one of N402 or N407 may be present.
- 2. C0605 If N406 is present, then N405 is required.
- 3. C0704 If N407 is present, then N404 is required.

# Comments:

- 1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
- 2. N402 is required only if city name (N401) is in the U.S. or Canada.

<u>Ref</u>	<u>ld</u>	Element Name	Req	Type	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
N401	19	City Name	0	AN	2/30	Used	1
		Description: Free-form text for city name					
		<b>DLMS Note:</b> Use in the HL03 Code HP loop with N101 Code HZ to identify the city of the facility.					
N402	156	State or Province Code	Х	ID	2/2	Used	1
	<b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency						
		<b>DLMS Note:</b> Use in the HL03 Code HP loop with the N101 Code HZ to identify the state code of the facility.					
N403	116	Postal Code	0	ID	3/15	Used	1
		<b>Description:</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States)					
		<b>DLMS Note:</b> Use in the HL03 Code HP loop with the N101 Code HZ to identify the zip code of the facility.					

Pos: 0540	Max: >1		
Detail - Optional			
Loop: N1	Elements: 3		

# PER Administrative Communications Contact

Pos: 0550	Max: >1			
Detail - Optional				
Loop: N1	Elements: 6			

### User Option (Usage): Used

Purpose: To identify a person or office to whom administrative communications should be directed

## **Syntax Rules:**

- 1. P0304 If either PER03 or PER04 is present, then the other is required.
- 2. P0506 If either PER05 or PER06 is present, then the other is required.
- 3. P0708 If either PER07 or PER08 is present, then the other is required.

<u>Ref</u>	ld	Element Name	Req	Type	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
PER01	366	Contact Function Code	М	ID	2/2	Must use	1
		<b>Description:</b> Code identifying the major duty or responsibility of the person or group named					
		<u>Code</u> <u>Name</u>					
		BL Technical Department					
		DLMS Note:					
		Use in the HL03 Code HP loop to in Technical Contact Title in the N201	dentify the	Technical (	Contact Name.	This name is associate	d to the
		CE Certifier					
		DLMS Note:					
		Use in the HL03 Code HP loop to it Generator name (N01 Code HZ).	dentify the	Certifier Na	ame. This name	e is associated with the	
PER02	93	Name	0	AN	1/60	Used	1
		Description: Free-form name					
PER03	365	Communication Number Qualifier	Х	ID	2/2	Used	1
		<b>Description:</b> Code identifying the type of communication number					
		<u>Code</u> <u>Name</u>					
		TE Telephone					
		DLMS Note:					
		Use in the HL03 Code HP loop with Contact.	PER01 C	ode BL to i	dentify the telep	hone number of the Te	chnical
PER04	364	Communication Number	Х	AN	1/256	Used	1
		<b>Description:</b> Complete communications number including country or area code when applicable					
PER05	365	Communication Number Qualifier	Х	ID	2/2	Used	1
		<b>Description:</b> Code identifying the type of communication number					
		Code Name					
		EX Telephone Extension					
		DLMS Note:					
		Use in the HL03 Code HP loop with of the Technical Contact.	PER01 C	ode BL to i	dentify the telep	phone extension, if appl	icable,

Hazardous Material/Hazardous Waste Profile

<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	Туре	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
PER06	364	Communication Number	Х	AN	1/256	Used	1
		Description: Complete communications					

**Description:** Complete communications number including country or area code when applicable



Pos: 0560	Max: >1			
Detail - Optional				
Loop: N1	Elements: 2			

Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

## **Syntax Rules:**

- 1. R0203 At least one of N902 or N903 is required.
- 2. C0605 If N906 is present, then N905 is required.

# Semantics:

- 1. N906 reflects the time zone which the time reflects.
- 2. N907 contains data relating to the value cited in N902.

<u>Ref</u> N901	<u>Id</u> 128	Element Name Reference Identification Qualifier	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 2/3	<u>Usage</u> Must use	<u>Rер</u> 1
		<b>Description:</b> Code qualifying the Reference Identification					
		<u>Code</u> <u>Name</u> ABO State Hazardous Waste Entity Identifie	⊃r				
		DLMS Note:		<b>a</b> (			
		Use in the HL03 Code HP loop to ide	entity the	Generator	State Identificatio	n.	
		CAM U.S. Environmental Protection Agency	/ (EPA) Ic	lentification	Number		
		DLMS Note:					
		1. Use in the HL03 Code HP loop to	identify th	ne Generat	or US EPA Identif	fication.	
		2. Qualifier CAM is a migration code	approved	l for use in	X12 version 4040	).	
N902	127	Reference Identification	х	AN	1/50	Used	1
		<b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier					

# **PID** Product/Item Description

Pos: 0600	Max: 1			
Detail - Optional				
Loop: PID	Elements: 3			

#### User Option (Usage): Used

Purpose: To describe a product or process in coded or free-form format

## Syntax Rules:

- 1. C0403 If PID04 is present, then PID03 is required.
- 2. R0405 At least one of PID04 or PID05 is required.
- 3. C0703 If PID07 is present, then PID03 is required.
- 4. C0804 If PID08 is present, then PID04 is required.
- 5. C0905 If PID09 is present, then PID05 is required.

## Semantics:

- 1. Use PID03 to indicate the organization that publishes the code list being referred to.
- 2. PID04 should be used for industry-specific product description codes.
- 3. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4. PID09 is used to identify the language being used in PID05.

## **Comments:**

- 1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3. PID07 specifies the individual code list of the agency specified in PID03.

	<u>Ref</u> PID01	<u>ld</u> 349	<u>Element Name</u> Item Description Type	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 1/1	<u>Usage</u> Must use	<u>Rep</u> 1			
			<b>Description:</b> Code indicating the format of a description								
			<u>Code</u> <u>Name</u> F Free-form								
	PID02	750	Product/Process Characteristic Code	0	ID	2/3	Used	1			
			<b>Description:</b> Code identifying the general class of a product or process characteristic								
			Code <u>Name</u> WT Waste								
			DLMS Note:								
			Use in the HL03 Code HP loop to identify the Name of the Waste.								
			CCN Common Chemical Name								
			DLMS Note:								
			Use in the HL03 Code KB loop to ide	entify the (	Chemical N	ame.					
	PID05	352	Description	Х	AN	1/80	Used	1			
			<b>Description:</b> A free-form description to clarify the related data elements and their content								
		<b>DLMS Note:</b> Enter "PSN1", "PSN2", and "PSN3" as required to identify the 80 character increments of the Proper									
			Snipping Name.								

# **PKD** Packaging Description

Pos: 0650	Max: >1
Detail -	Optional
Loop: PID	Elements: 2

User Option (Usage): Used

Purpose: To specify a package description and other information

# Syntax Rules:

- 1. C0201 If PKD02 is present, then PKD01 is required.
- 2. C0302 If PKD03 is present, then PKD02 is required.

<u>Ref</u>	ld	Element Name	Req	Type	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
PKD01	103	Packaging Code	Х	AN	3/5	Used	1
		Description: Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required <u>Code</u> <u>Name</u> MXD Mixed					
		DLMS Note:					
		Use in the HL03 Code HP loop to id	entify the	Mode of Co	ollection.		
PKD02	822	Source Subqualifier	Х	AN	1/15	Used	1
		<b>Description:</b> A reference that indicates the table or text maintained by the Source Qualifier					



Purpose: To specify quantity information

# Syntax Rules:

- 1. R0204 At least one of QTY02 or QTY04 is required.
- 2. E0204 Only one of QTY02 or QTY04 may be present.

# Semantics:

1. QTY04 is used when the quantity is non-numeric.

<u>Ref</u>	<u>ld</u>	Element Name		<u>Req</u>	Type	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>				
QTY01	673	Quantity Qualifier		М	ID	2/2	Must use	1				
		<b>Description</b> quantity	: Code specifying the type of									
		<u>Code</u> Nam	<u>e</u>									
		TT Total	Production Volume									
		DLM	S Note:									
		Use	Use in the HL03 Code HP loop to identify the Projected Annual Volume.									
		XL Appr	oximate Number of Units Project	ed								
		DLM	S Note:									
		Use	Use in the HL03 Code HP loop to identify the Projected Annual Units.									
QTY02	380	Quantity		х	R	1/15	Used	1				
		Description	: Numeric value of quantity									

Pos: 0700	Max: >1		
Detail - Optional			
Loop: PID	Elements: 2		

<b>MEA</b> Measurements
-------------------------

Pos: 0740	Max: >1		
Detail - Optional			
Loop: PID	Elements: 4		

**Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

## Syntax Rules:

- 1. R03050608 At least one of MEA03, MEA05, MEA06 or MEA08 is required.
- 2. C0504 If MEA05 is present, then MEA04 is required.
- 3. C0604 If MEA06 is present, then MEA04 is required.
- 4. L07030506 If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.
- 5. E0803 Only one of MEA08 or MEA03 may be present.

## Semantics:

1. MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

## Comments:

1. When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

## **DLMS Note:**

Use in the HP loop to identify the quantities associated with the hazardous waste/hazardous material.

<u>Ref</u>	<u>ld</u>	<u>Elem</u>	ent Name	Req	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>		
MEA02	738	Meas	urement Qualifier	0	ID	1/3	Used	1		
		Desc produ meas DLM autho	<b>ription:</b> Code identifying a specific act or process characteristic to which a urement applies <b>S Note:</b> <i>The following codes are</i> <i>prized.</i>							
		Code	Name							
		AK	Volatile Organic Compounds (VOCs)							
		HAL	Total Halogens							
			DLMS Note:							
			1. Use to identify the quantity of halo	gens.						
			2. At this time a local code HAL is es action has been submitted for establi	tablished shment c	for use in of HAL–Tota	841W, version 40 al Halogens in a fi	30. A data maintena uture version.	nce		
		PCB	Polychlorinated Biphenyl (PCB)			U U				
			DLMS Note:							
			1. Use to identify the quantity of PCB	S.						
			2. At this time a local code PCB is es action has been submitted for establi	tablished shment c	l for use in of PCB–Pol <u></u>	841W, version 40 ychlorinated Biphe	30. A data maintena enyl (PCB) in a futur	nce e version.		
		PHE	Phenol							
			DLMS Note:							
			1. Use to identify the quantity of Pher	nol.						
			2. Qualifier PHE is a migration code a	approved	for use in .	X12 version 5030				
		QUR	Reportable Quantity							
			DLMS Note:							
			Use to identify the DoT Reportable Q Disposition Services, identify the DoT	uantity. Reporta	Cite the as	sociate DoT unit c ty in Pounds.	of issue in the MEA0	4. For		

		<u>Code</u>	Name					
		ZCR	Chromium					
			DLMS Note:					
			Use to identify the quantity of Chromiu	ım Hex.				
		ZCU	Copper					
		ZNI						
		ZZN	Zinc		_			
MEA03	739	Meas		Х	R	1/20	Used	1
		<b>Desc</b> meas	ription: The value of the urement					
MEA04	C001	Comp	posite Unit of Measure	Х	Comp		Used	1
		Desci meas exam DLMS units the per MEAC Comr 1. If C interp 2. If C interp 3. If C interp 5. If C interp 6. If C interp 7. If C interp 8. If C interp 9. If C	ription: To identify a composite unit of ure(See Figures Appendix for ples of use) <b>5 Note:</b> Use to identify the value of the expressed in MEA03. For example, if ercent of copper is 50, cite 50 in 03 and P1 in MEA04. <b>ments:</b> C001-02 is not used, its value is to be reted as 1. C001-03 is not used, its value is to be reted as 1. C001-05 is not used, its value is to be reted as 1. C001-06 is not used, its value is to be reted as 1. C001-08 is not used, its value is to be reted as 1. C001-08 is not used, its value is to be reted as 1. C001-09 is not used, its value is to be reted as 1. C001-09 is not used, its value is to be reted as 1. C001-11 is not used, its value is to be reted as 1. C001-12 is not used, its value is to be reted as 1.					
		interp	reted as 1.					
		interp	reted as 1.					
MEA04-01	355	Unit d	or Basis for Measurement Code	М	ID	2/2	Must use	1
		<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken						
		DLMS autho Issue for co DOD.	<b>DLMS Note:</b> The following codes are authorized. DLMS users see the Unit of Issue and Purchase Unit Conversion table for code conversions between X12 and DOD.					
		<u>Code</u>	Name					
		19	Tank Truck					
			DLMS Note:					
			DoT equivalent code is TT.					
		1P	Tank Car					
			DLMS Note:					
			DoT equivalent code is TC.					

	<u>Code</u>	Name						
	59	Parts Per Million						
		DLMS Note:						
		GenComm equivalent code is PPM.						
	61	Parts Per Billion						
		DLMS Note:						
		GenComm equivalent code is PPB.						
	BR	Barrel						
		DLMS Note:						
		DoT equivalent codes are DF, DM, and DW. Must use with the MEA09.						
	BX	Box						
		DLMS Note:						
		DoT equivalent codes are CF, CM, and CW. Must use with the MEA09.						
	CL	Cylinder						
		DLMS Note:						
		DoT equivalent code is CY.						
	NA	Milligrams per Kilogram						
		DLMS Note:						
		GenComm equivalent code is MG/KG.						
	NC	Car						
		DLMS Note:						
	-	Do l'equivalent code is HG.						
	P1	Percent						
		ConComm oquivalant anda in DED						
	τız	Gencomm equivalent code is PER.						
	IN							
		Demo Note.						
752	Surfac	ce/Layer/Position Code O ID 2/2 Used 1						
	Descri surface descrit	<b>iption:</b> Code indicating the product e, layer or position that is being ped						
	Code	Name						
	SD	Relative Position 48						
		DLMS Note:						
		1. Use with MEA04-01 Code BX (DoT Code CF) to denote Fiber or Plastic Box, Carton, Case.						
		2. Use with MEA04-01 Code BR (DoT Code DF) to denote Fiberboard or Plastic Drum. Barrel. Kea.						
	SE	Relative Position 49						
		DLMS Note:						
		1. Use with MEA04-01 Code BX (DoT Code CM) to denote Metal Box, Carton, Case.						
		2. Use with MEA04-01 Code BR (DoT Code DM) to denote Metal Drum, Barrel, Keg.						
	SF	Relative Position 50						
		DLMS Note:						
		1. Use with MEA04-01 Code BX (DoT Code CW) to denote Wood Box, Carton, Case.						
		2. Use with MEA04-01 Code BR (DoT Code DW) to denote Wooden Drum, Barrel, Keg.						

MEA09

# LOC Location

Pos: 0760	Max: 1				
Detail - Optional					
Loop: PID	Elements: 3				

### User Option (Usage): Used

**Purpose:** To describe the location in space and time of the axis of an item relative to an origin axis; Euclidean geometry has been assumed with orthogonal axes; the sequence of axes has been chosen in the customary sequence of X, Y, and Z, however, it is possible to just use two-dimensional space rather than three-dimensional space

# Syntax Rules:

- 1. P0607 If either LOC06 or LOC07 is present, then the other is required.
- 2. C1110 If LOC11 is present, then LOC10 is required.
- 3. C1312 If LOC13 is present, then LOC12 is required.
- 4. C1514 If LOC15 is present, then LOC14 is required.
- 5. C1716 If LOC17 is present, then LOC16 is required.
- 6. C1918 If LOC19 is present, then LOC18 is required.
- 7. C2120 If LOC21 is present, then LOC20 is required.
- 8. P2223 If either LOC22 or LOC23 is present, then the other is required.

## Semantics:

- 1. LOC01 through LOC03 describe the item.
- 2. LOC04 is a description of the positional reference point on the item.
- 3. LOC05 through LOC08 describe the environment in which the item is placed.
- 4. LOC09 is a description of the positional reference point in the environment. This is the origin of the original axes.
- 5. LOC10 through LOC15 describe the translation in the three-dimensional space of the axes with respect to the original axes.
- 6. LOC10 is the principal X axis of the item.
- 7. LOC10 through LOC14 describe the principal XY plane of the item.
- 8. LOC16 is measured with respect to the XY plane around the X axis.
- 9. LOC18 is measured with respect to the YZ plane around the Y axis.
- 10. LOC20 is measured with respect to the ZX plane around the Z axis.

## **Comments:**

- 1. It is possible to translate the axis system in zero, one, two, or three axial directions.
- The temporal measurements would be used, for example, to describe the positions of a robot head. They may be specified as t1, t2... or n1, n2...etc. Or, they may be specified in time units such as 0, 0.8, 1.6, etc. They may also represent positions where they would be specified as p1, p2, etc.
- 3. All angular positions of an axis vector are measured in a counter-clockwise rotation around the original axis vector, looking from the positive direction of the vector towards the origin. The angular unit is specified by the corresponding unit of measurement, as in LOC17, LOC19, and LOC21.

<u>Ref</u>	<u>ld</u>	Element Name	Req	Type	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
LOC01	128	Reference Identification Qualifier	М	ID	2/3	Must use	1
		<b>Description:</b> Code qualifying the Reference Identification					
		<u>Code</u> <u>Name</u>					
		PHC Process Handling Code					
		DLMS Note:					
		Use in the HL03 Code HP loop to in Code in LOC02 and the Process Ge	lentify the enerating	Process G Waste Dese	enerating Waste. cription in LOC03.	Enter the Process S	ource
LOC02	127	Reference Identification	М	AN	1/50	Must use	1
		<b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier					

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Ref	<u>ld</u>	Element Name	Req	Type	Min/Max	<u>Usage</u>	<u>Rep</u>
		<b>DLMS Note:</b> Provide a three-character value found in appendix 2.20. If code is unknown to the sender, use "PGW" to satisfy syntax requirements.					
LOC03	352	Description	0	AN	1/80	Used	1
		<b>Description:</b> A free-form description to clarify the related data elements and their content					

# PKG Marking, Packaging, Loading

ADC 1131, 1367 and 1433 DLM 4000.25

Pos: 0780 Max: 1 Detail - Optional Loop: PKG Elements: 4

#### User Option (Usage): Used

Purpose: To describe marking, packaging, loading, and unloading requirements

## Syntax Rules:

- 1. R040506 At least one of PKG04, PKG05 or PKG06 is required.
- 2. C0403 If PKG04 is present, then PKG03 is required.
- 3. C0501 If PKG05 is present, then PKG01 is required.

## Semantics:

1. PKG04 should be used for industry-specific packaging description codes.

## Comments:

- 1. Use the MEA (Measurements) Segment to define dimensions, tolerances, weights, counts, physical restrictions, etc.
- 2. If PKG01 equals "F", then PKG05 is used. If PKG01 equals "S", then PKG04 is used. If PKG01 equals "X", then both PKG04 and PKG05 are used.
- 3. Use PKG03 to indicate the organization that publishes the code list being referred to.
- 4. Special marking or tagging data can be given in PKG05 (description).

## **DLMS Note:**

Use in the HP loop to identify the Proper Shipping Name. If the Proper Shipping Name is greater than 80 characters, enter "PSN1" in the PKG04 to identify the first 80 characters of the Proper shipping Name, and then repeat the PKG loop up to seven more times. For each PKG after PSN1 increment by one (i.e. PSN2) and provide the next 80 characters of the name. If the proper shipping name is between 560 and 600 characters, provide PKG04 of "PSN8" and no more than the final forty characters in PKG05.

<u>Ref</u> PKG01	<u>ld</u> 349	<u>Element Name</u> Item Description Type	<u>Req</u> X	<u>Type</u> ID	<u>Min/Max</u> 1/1	<u>Usage</u> Used	<u>Rер</u> 1
		<b>Description:</b> Code indicating the format of a description					
		<u>Code</u> <u>Name</u> F Free-form					
PKG03	559	Agency Qualifier Code	х	ID	2/2	Used	1
		<b>Description:</b> Code identifying the agency assigning the code values					
		CodeNameDLDefense Logistics Agency					
PKG04	754	Packaging Description Code	х	AN	1/7	Used	1
		<b>Description:</b> A code from an industry code list which provides specific data about the marking, packaging or loading and unloading of a product					
		<b>DLMS Note:</b> Enter "PSN1", "PSN2", "PSN3", "PSN4", "PSN5", "PSN6", "PSN7", up to "PSN8" as required to identify the 80 character increments of the Proper Shipping Name, up to a maximum of 600 characters.					
PKG05	352	Description	х	AN	1/80	Used	1
		Description: A free-form description to					

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<u>Ref</u>	ld	Element Name	Req	Type	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
		clarify the related data elements and their content					

Pos: 0800	Max: 1				
Detail - Optional					
Loop: REF	Elements: 2				

Purpose: To specify identifying information

## **Syntax Rules:**

1. R0203 - At least one of REF02 or REF03 is required.

# Semantics:

1. REF04 contains data relating to the value cited in REF02.

<u>Ref</u>	<u>ld</u>	Elem	ent Name	<u>Req</u>	Type	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>		
REF01	128	Refer	rence Identification Qualifier	М	ID	2/3	Must use	1		
		<b>Desc</b> Refer	ription: Code qualifying the rence Identification							
		<u>Code</u>	<u>Name</u>							
		8D	Chemical Abstract Service Registry I	Number						
			DLMS Note:							
			Use in the HL03 Code KB loop to it	dentify the	Chemical A	Abstract Service le	dentifier.			
		HD	Department of Transportation Hazard	dous Numl	ber					
			DLMS Note:							
			Use in the HL03 Code HP loop to it	dentify the	Hazard Cla	ISS.				
		HP	Pack & Hold Invoice Number							
			DLMS Note:							
			DLMS Note: 1. Use in the HL03 Code HP loop to 2. At this time a local code DEM is action has been submitted for estal	o identify ti establishe blishment d	he Demilita d for use in of DEM– De	rization Code. 841W, version 4 emilitarization in a	030. A data mainten h future version.	ance		
		P9	Page Number							
			DLMS Note:							
			Use in the HL03 Code HP loop to it	dentify the	Emergency	/ Response Guide	e Page Number.			
		RE	Release Number							
			DLMS Note:							
			Use in the HL03 Code HP loop to it	dentify the	Edition Yea	ar of the Emerger	icy Response Guide			
		UN	United Nations Hazardous Classifica	tion Numb	er					
			DLMS Note:							
			Use in the HL03 Code HP loop to it	dentify the	UN/NA Nu	mber.				
		CAL	U.S. Environmental Protection Agene	cy (EPA) ⊦	lazardous \	Vaste Code				
			DLMS Note:							
			1. Use in the HL03 Code HE loop to	o identify ti	he EPA Ha	zardous Waste N	umber.			
			2. Qualifier CAL is a migration code	e approved	l for use in .	X12 version 4040	) <u>.</u>			
		DEM	Demilitarization Code							
			DLMS Note:							
			1. Use in the HL03 Code HP loop to	o identify ti	he Demilita	rization Code.				
			2. At this time a local code DEM is action has been submitted for estal	establishe blishment o	d for use in of DEM– De	841W, version 4 emilitarization in a	030. A data mainten future version.	ance		
		PGC	Packing Group Code							
			DLMS Note:							
			Use in the HL03 Code HP loop to it	dentify the	Packing Gi	roup (e.g., I, II, III)	).			

### Code Name

SWC State Waste Code

### DLMS Note:

1. Use in the HL03 Code ST loop to identify the State/County Hazardous Waste Code.

2. At this time a local code SWC is established for use in 841W, version 4030. A data maintenance action has been submitted for establishment of SWC–State Waste Code in a future version.

REF02	127	Reference Identification	Х	AN	1/50	Used	1
		<b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier					



Pos: 1030	Max: 1				
Detail - Optional					
Loop: LX	Elements: 1				

Purpose: To reference a line number in a transaction set

# **DLMS Note:**

Use in the HP loop to identify the Other Chemical Component Description (2/PSD08/1120) and associated quantity/UOM (2/MEA/1100).

<u>Ref</u>	ld	Element Name	Req	Туре	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
LX01	554	Assigned Number	М	N0	1/6	Must use	1
		<b>Description:</b> Number assigned for differentiation within a transaction set <b>DLMS Note:</b> In the first 2/LX/1030 loop iteration, cite numeric 1. In each subsequent loop iteration, increase incrementally by 1.					

MEA M	easurements
-------	-------------

Pos: 1100	Max: >1				
Detail - Mandatory					
Loop: LX	Elements: 3				

#### User Option (Usage): Must use

**Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

## Syntax Rules:

- 1. R03050608 At least one of MEA03, MEA05, MEA06 or MEA08 is required.
- 2. C0504 If MEA05 is present, then MEA04 is required.
- 3. C0604 If MEA06 is present, then MEA04 is required.
- 4. L07030506 If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.
- 5. E0803 Only one of MEA08 or MEA03 may be present.

## Semantics:

1. MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

## Comments:

1. When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

## **DLMS Note:**

Use in the HP loop to identify the quantities associated with the hazardous waste/hazardous material.

<u>Ref</u> MEA02	<u>ld</u> 738	<u>Element Name</u> Measurement Qualifier	Req O	<u>Type</u> ID	<u>Min/Max</u> 1/3	<u>Usage</u> Used	<u>Rep</u> 1
		<b>Description:</b> Code identifying a specific product or process characteristic to which a measurement applies					
		<b>DLMS Note:</b> The following codes are authorized.					
		<u>Code</u> <u>Name</u>					
		OTE Others Each					
		DLMS Note:					
		Use with Other Chemical Component Chemical Component.	Descripti	ion at 2/PSL	008/1120 to identify ti	he quantity of the	Other
MEA03	739	Measurement Value	Х	R	1/20	Used	1
		<b>Description:</b> The value of the measurement					
MEA04	C001	Composite Unit of Measure	Х	Comp		Used	1
		<b>Description:</b> To identify a composite unit of measure(See Figures Appendix for examples of use)					
		<b>DLMS Note:</b> Use to identify the value of the units expressed in MEA03. For example, if the percent of copper is 50, cite 50 in MEA03 and P1 in MEA04.					
		Comments:					
		1. If C001-02 is not used, its value is to be interpreted as 1.					
		2. If C001-03 is not used, its value is to be interpreted as 1.					

<u>Ref</u>	<u>ld</u>	Eleme 3. If C interp 4. If C interp 5. If C	ent Name C001-05 is not used, its value is to be reted as 1. C001-06 is not used, its value is to be reted as 1. C001-08 is not used, its value is to be	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
		6. If C interp	2001-09 is not used, its value is to be reted as 1.					
		7. If C interp	C001-11 is not used, its value is to be reted as 1.					
		8. If C interp	001-12 is not used, its value is to be reted as 1.					
		9. If C interp	001-14 is not used, its value is to be reted as 1.					
		10. If interp	C001-15 is not used, its value is to be reted as 1.					
MEA04-01	355	Unit o	or Basis for Measurement Code	М	ID	2/2	Must use	1
		Desc which mann taken DLMS autho Issue for co DOD.	<b>S Note:</b> The following codes are brized. DLMS users see the Unit of and Purchase Unit Conversion table and Purchase between X12 and					
		<u>Code</u> 59	Name Parts Per Million					
			DLMS Note: GenComm equivalent code is PPM.					
		61	Parts Per Billion					
			DLMS Note: GenComm equivalent code is PPB.					
		KL	Kilograms/Meter					
		ML	Milliliter					
		NA	Milligrams per Kilogram					
			DLMS Note: GenComm equivalent code is MG/KG	Э.				
		P1	Percent					
			DLMS Note: GenComm equivalent code is PER.					

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# **PSD** Physical Sample Description

ADC 1131, 1367 and 1433 DLM 4000.25

Pos: 1120 Max: >1 Detail - Optional Loop: LX Elements: 1

# User Option (Usage): Used

Purpose: To define the physical sample parameters associated with a test resulting in discrete measurements

# Syntax Rules:

- 1. P0304 If either PSD03 or PSD04 is present, then the other is required.
- 2. E0309 Only one of PSD03 or PSD09 may be present.

# **Comments:**

1. PSD08 can provide a more complete description of the physical sampling location.

# **Element Summary:**

<u>Ref</u>	<u>ld</u>	Element Name	Req	Type	Min/Max	<u>Usage</u>	<u>Rep</u>
PSD08	352	Description	0	AN	1/80	Used	1
		<b>Description:</b> A free-form description to clarify the related data elements and their content					
		<b>DLMS Note:</b> Use in the HP loop to identify the Other Chemical Component					

Description.

# **CID** Characteristic/Class ID

Pos: 1700	Max: 1				
Detail - Optional					
Loop: CID	Elements: 5				

## User Option (Usage): Used

Purpose: To specify the general class or specific characteristic upon which test results are being reported or are to be taken

## Syntax Rules:

- 1. R01020405 At least one of CID01, CID02, CID04 or CID05 is required.
- 2. P0304 If either CID03 or CID04 is present, then the other is required.
- 3. C060304 If CID06 is present, then CID03 and CID04 are required.
- 4. L070405 If CID07 is present, then at least one of CID04 or CID05 is required.

## **Comments:**

- 1. CID06 specifies the individual code list of the agency specified in CID03.
- 2. CID07 refers to whether or not the characteristic identified in CID04 or CID05 or both is affected by the product change. If it is affected, the value is "Y". A value of "N" is used when it is known that it will not be affected. Any other value indicates it is indeterminate.

## **DLMS Note:**

Use in the HL03 Codes HP, KB, and HE loops to identify various hazardous materials/hazardous waste material characteristics.

Element S	ummary:						
<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
CID01	738	Measurement Qualifier	Х	ID	1/3	Used	1
		<b>Description:</b> Code identifying a specific product or process characteristic to which a measurement applies	I				
		<u>Code</u> <u>Name</u> RB Range Value					
		DLMS Note: Use in the HL03 Code KB loop to it	dentifv the	chemical ra	ange in the CID05	i	
		CON Concentration	, <b>,</b>		<b>.</b>		
		DLMS Note:					
		Use in the HL03 Code KB loop to i	dentify the	chemical c	concentration in the	e CID05.	
CID03	559	Agency Qualifier Code	х	ID	2/2	Used	1
		<b>Description:</b> Code identifying the agency assigning the code values					
		CodeNameDLDefense Logistics Agency					
CID04	751	Product Description Code	Х	AN	1/12	Used	1
		<b>Description:</b> A code from an industry code list which provides specific data about a product characteristic					
		<b>DLMS Note:</b> Use in the HL03 Code HP or Code KB loop. The following code values and associated definitions are authorized for use.					
		ASH Ash Content (Identify the range or percent of ash in the CID05).					
		BAS Basis for Information (Identify the Basis for Information (e.g. "USER", "LAB", "BOTH") in the CID05).					
		BTU BTU/LB (Identify the BTU/LB in					

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<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	Type	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
		numeric format in the CID05).					
		COL Color (Identify the color in the CID05).					
		COR Corrosive Indicator (Indicate Yes or No in the CID07).					
		CRC Cyanide Reactive Indicator (Indicate Yes or No in the CID07).					
		CSL Corrodes Steel Indicator (Indicate Yes or No in the CID07).					
		DHM DoT Hazardous Material (Indicate Yes or No in the CID07).					
		DNS Density (Identify the density in NNN.NNN format in the CID05).					
		DXW Dioxin Waste Indicator (Indicate Yes or No in the CID07).					
		EXG Exemption Granted Indicator (Indicate Yes or No in the CID07).					
		FLP Flash Point (Indicate in degrees Fahrenheit the flash point in the CID05).					
		HTC High TOC (>10%) Indicator (indicate Yes or No in the CID07).					
		IGN Ignitable Indicator (Indicate Yes or No in the CID07).					
		LAY Layering (Indicate the type of layering (e.g., "MULTILAYERED", "BILAYERED", "SINGLE PHASE") in the CID05).					
		LDR Land Disposal Restrictions Indicator (Indicate Yes or No in the CID07).					
		LTC Low TOC (<10%) Indicator (indicate Yes or No in the CID07).					
		MTS Meets Treatment Standards Indicator (Identify the Treatment Standard Reference in the CID05 and Indicate Yes or No in the CID07).					
		OTH Additional Hazard Description (Identify in the CID05 any additional Hazard descriptive information associated with the proper shipping name).					
		PHS Physical State (Identify the physical state (e.g., "S" = solid, "L" = liquid, SS = semisolid; "G" = gas; "O" = Other) in the CID05).					
		PPH Ph (Identify the Ph in the CID05).					
		RAC Reactive Indicator (Indicate Yes or NO n the CID07).					
		RCA RCRA Requirements (Identify the RCRA Requirements in the 2/MSG01/2200).					
		RCB Additional RCRA Requirements (Identify additional RCRA requirements in the 2/MSG01/2200).					
		RGL Low range of concentration (Identify the range in the CID05). Use with the CID01 = RB					
		RHG High range of concentration (Identify the range in the CID05). Use with the CID01 = RB					
		SHI Special Handling Information (Indicate any special handling information in the 2/MSG01/2200).					
		SRC Sulfide Reactive Indicator (Indicate Yes or No in the CID07).					
4030F841W0WA	02	40					

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<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	Туре	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
		TGR Treatment Group (Identify the treatment group (e.g, "W" = Wastewater; "N" = Non wastewater) in the CID05).					
		TOX Toxicity Characteristic Indicator (Indicate Yes or No in the CID07).					
		TSD Total Solids (Identify the range or percent of total solids in the CID05).					
		UHC Underlying Hazardous Constituent (Indicate Yes or No in the CID07).					
		WRC Water Reactive Indicator (Indicate Yes or No in the CID07).					
CID05	352	Description	Х	AN	1/80	Used	1
		<b>Description:</b> A free-form description to clarify the related data elements and their content <b>DLMS Note:</b> 1. Use in the HL03 Code KB loop with CID01 Codes CON and BB					
		2. Use in the HL03 Code HE loop with CID01 Code RB.					
		3. Use in the HL03 Code HP loop with CID03 Codes ASH, BAS, BTU, COL, DNS, FLP, LAY, OTH, PHS, PPH, TGR, and TSD. For CID03 Code MTS, identify the Treatment Standard Reference.					
CID07	1073	Yes/No Condition or Response Code	0	ID	1/1	Used	1
		<b>Description:</b> Code indicating a Yes or No condition or response					
		DLMS Note: Use in the HL03 Code HP loop with CID07 Codes COR, CRC, CSL, DHM, DXW, EXG, HTC, IGN, LDR, LTC, MTS, RAC, SRC, TOX, UHC, WRC.					
		. , , , , , -					

All valid standard codes are used.



Purpose: To specify item unit data

# Syntax Rules:

1. C0302 - If UIT03 is present, then UIT02 is required.

<u>Ref</u>	<u>ld</u>	Element Name	2	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
UIT01	C001	Composite Ur	nit of Measure	Μ	Comp		Must use	1
		Description: T measure(See I examples of us	To identify a composite unit of Figures Appendix for se)					
		DLMS Note: L units expresse with CID01 Co	lse to identify the value of the d in the HL03 Code HE loop de RB.					
		Comments:						
		1. If C001-02 is interpreted as	s not used, its value is to be 1.					
		2. If C001-03 is interpreted as	s not used, its value is to be 1.					
		3. If C001-05 is interpreted as	s not used, its value is to be 1.					
		4. If C001-06 is interpreted as	s not used, its value is to be 1.					
		5. If C001-08 is interpreted as	s not used, its value is to be 1.					
		6. If C001-09 is interpreted as	s not used, its value is to be 1.					
		7. If C001-11 is interpreted as	s not used, its value is to be 1.					
		8. If C001-12 is interpreted as	s not used, its value is to be 1.					
		9. If C001-14 is interpreted as	s not used, its value is to be 1.					
		10. If C001-15 interpreted as	is not used, its value is to be 1.					
UIT01-01	355	Unit or Basis	for Measurement Code	М	ID	2/2	Must use	1
		Description: ( which a value i manner in whic taken	Code specifying the units in s being expressed, or ch a measurement has been					
		DLMS Note: 7 authorized. D Issue and Purc for code conve DOD.	The following codes are LMS users see the Unit of chase Unit Conversion table prsions between X12 and					
		Code Name						
		59 Parts P	er Million					
		DLMS I	Note:					
		GenC	omm equivalent code is PPM.					
		61 Parts P	er Billion					
		DLMS I	Note:					

Pos: 1800	Max: 1				
Detail - Optional					
Loop: CID	Elements: 1				

<u>Code</u>	Name
	GenComm equivalent code is PPB.
KL	Kilograms/Meter
	DLMS Note:
	This is used in the HL03 Code HE. Use with CID01=RB.
ML	Milliliter
	DLMS Note:
	This is used in the HL03 Code HE. Use with CID01=RB
NA	Milligrams per Kilogram
	DLMS Note:
	GenComm equivalent code is MG/KG.
P1	Percent
	DLMS Note:
	GenComm equivalent code is PER.

Pos: 2200	Max: >1
Detail - C	Optional
Loop: CID	Elements: 1

Purpose: To provide a free-form format that allows the transmission of text information

## Syntax Rules:

1. C0302 - If MSG03 is present, then MSG02 is required.

## Semantics:

1. MSG03 is the number of lines to advance before printing.

## **Comments:**

- 1. MSG02 is not related to the specific characteristics of a printer, but identifies top of page, advance a line, etc.
- 2. If MSG02 is "AA Advance the specified number of lines before print" then MSG03 is required.

<u>Ref</u>	<u>ld</u>	Element Name	Req	Туре	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
MSG01	933	Free-Form Message Text	М	AN	1/264	Must use	1
		Description: Free-form message text					
		<b>DLMS Note:</b> Use in the HL03 Code HP loop with CID04 Codes SHI, RCA, and RCB.					



Pos: 0100	Max: 1				
Summary - Mandatory					
Loop: N/A	Elements: 2				

#### User Option (Usage): Must use

**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

## **Comments:**

1. SE is the last segment of each transaction set.

<u>Ref</u>	<u>ld</u>	Element Name	Req	Туре	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
SE01	96	Number of Included Segments	Μ	N0	1/10	Must use	1
		<b>Description:</b> Total number of segments included in a transaction set including ST and SE segments					
SE02	329	Transaction Set Control Number	М	AN	4/9	Must use	1
		<b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set					
		<b>DLMS Note:</b> <i>Cite the same number as the one cited in ST02.</i>					