

# 650 Maintenance Service Order

**Functional Group=MO**

**Purpose:** This Draft Standard for Trial Use contains the format and establishes the data contents of the Maintenance Service Order Transaction Set (650) for use within the context of an Electronic Data Interchange (EDI) environment. This transaction set provides a uniform, singular medium for the exchange of maintenance related information among organizations involved in the reporting, requesting, scheduling, planning, estimating, coordinating and performing of maintenance actions. It provides the structure to convey maintenance-related information, including maintenance action directives, maintenance actions, cost estimates, maintenance action assignments, maintenance action status, and completion reports. This transaction set can be used in a bi-directional environment alone or in conjunction with the Project Schedule Reporting Transaction Set (806) to link schedule and maintenance action information as well as with the Specifications/Technical Information Transaction Set (841) to link maintenance-related, media independent, technical data.

**DLMS Note:**

1. This transaction set is used by the Assembly Manager to provide Unit Assembly data to the Assembly Activity. The transaction may be used by the Assembly Activity to enter corrections, provide missing data and may also be used to transmit local changes and history data to the Assembly Manager.

a. 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 [www.dla.mil/does/DLMS](http://www.dla.mil/does/DLMS)

2. This DLMS IC was developed in support of the U.S. Army Medical Materiel Agency (USAMMA) Enterprise Resource Planning (ERP) modernization program. This functionality is an enhancement over current Defense Logistics Standard System (DLSS), and is not available in the DLSS. This DLMS IC supports functionality of the non-DLSS C-Series Document Identifier codes C2A (Unit Assembly End Item Data), C2B (Unit Assemblage Control Data), and C2D (Assembly Directive Component Item Data).

3. This DLMS Implementation Convention contains:

a. Data associated with a DLMS enhancement which may not be received or understood by the recipient's automated processing system. DLMS procedures may not have been developed. Components must coordinate requirements and business rules with DEDSO prior to use.

b. Data which is retained in the DLMS for a transition period to support transaction conversion in a mixed DLSS (and non-DLSS C-series)/DLMS environment. This data will be streamlined out once full DLMS implementation is reached. Components may coordinate with DEDSO for early termination (or retention) of specific data requirements for users operating in a full DLMS environment.

c. Data elements which have an expanded field size above existing DLSS (or non-DLSS C-series) capability which may not be supported by the recipient's automated processing system. Components must coordinate implementation with DEDSO prior to use.

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

- ADC 149, DLMS Supplements 650A, Support of Medical Requirements for Assembly Component Maintenance Structure
- ADC 149A, Correction to DLMS Supplements 650A in Support of Requirements for the Medical Unit Assembly Program
- ADC 436, Administrative Revisions to DLMS Supplements to Remove Obsolete Routing Identifier Code (RIC) "Streamline" Notes and Update MILSTRIP/DLMS Documentation Associated with Routing Identifiers
- Administrative update completed on October 05, 2011 to add migration code note for Hazardous Characteristics Code.
- Organizational Name and Other Non-Substantive (Administrative) Updates Completed on April 15, 2014.
- ADC 1043C, Administrative Corrections for SLOA Data in the 810L Logistics Bill and other DLMS ICs
- Administrative Update to Reflect Realignment to Recognize DLMS Program Office Completed on December 21, 2016
- ADC 1254, Remove Unit of Measure Code Validation from DLMS XML Schemas
- Administrative Update to Reflect Realignment of DLMS Program Office to Enterprise Business Standards Office (EBSO) - Completed on August 09, 2018
- 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 February 24, 2022
- ADC 1412, Replacement of Data Universal Numbering System Number with Unique Entity Identifier and Electronic Funds Transfer Indicator to Wide Area Workflow

**Heading:**

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
0100	ST	Transaction Set Header	M	1			Must use
0200	BGN	Beginning Segment	M	1			Must use
0300	REF	Reference Identification	O	>1			Used
0400	DTM	Date/Time Reference	O	>1			Used
<b>LOOP ID - N1</b>					<b>&gt;1</b>	<b>N1/0500L</b>	

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
0500	N1	Name	O	1		N1/0500	Used
* 0600	N2	Additional Name Information	O	2			
* 0700	N3	Address Information	O	2			
* 0800	N4	Geographic Location	O	1			
* 0900	PER	Administrative Communications Contact	O	>1			
* 1000	REF	Reference Identification	O	>1			
<b>* LOOP ID - LM</b>					<b>≥1</b>		
* 1100	LM	Code Source Information	O	1			
* 1200	LQ	Industry Code	M	>1			
* 1300	PER	Administrative Communications Contact	O	>1			
* 1400	REF	Reference Identification	O	>1			

**Detail:**

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
<b>LOOP ID - HL</b>					<b>≥1</b>	<b>N2/0100L</b>	
0100	HL	Hierarchical Level	M	1		N2/0100	Must use
* 0200	SPI	Specification Identifier	O	1			
0300	REF	Reference Identification	O	>1			Used
0400	LIN	Item Identification	O	>1			Used
* 0500	DTM	Date/Time Reference	O	>1			
0600	QTY	Quantity	O	>1			Used
0700	YNQ	Yes/No Question	O	>1		N2/0700	Used
0800	AMT	Monetary Amount	O	>1			Used
* 0900	PCT	Percent Amounts	O	>1			
1000	MEA	Measurements	O	>1			Used
<b>* LOOP ID - CLI</b>					<b>≥1</b>		
* 1100	CLI	Cost Line Item	O	1			
* 1200	QTY	Quantity	O	>1			
* 1300	AMT	Monetary Amount	O	>1			
* 1400	RPA	Rate Amounts or Percents	O	>1			
<b>LOOP ID - LM</b>					<b>≥1</b>	<b>N2/1500L</b>	
1500	LM	Code Source Information	O	1		N2/1500	Used
1600	LQ	Industry Code	M	>1			Must use
* 1700	REF	Reference Identification	O	>1			
* 1800	DTM	Date/Time Reference	O	>1			
<b>* LOOP ID - NM1</b>					<b>≥1</b>	<b>N2/1900L</b>	
* 1900	NM1	Individual or Organizational Name	O	1		N2/1900	
* 2000	N2	Additional Name Information	O	2			
* 2100	N3	Address Information	O	2			
* 2200	N4	Geographic Location	O	1			
* 2300	COM	Communication Contact Information	O	>1			
* 2400	REF	Reference Identification	O	>1			
<b>LOOP ID - MTX</b>					<b>≥1</b>		
2500	MTX	Text	O	1			Used
* 2600	DTM	Date/Time Reference	O	>1			
* 2700	NM1	Individual or Organizational Name	O	>1			
* 2800	REF	Reference Identification	O	>1			
2900	SE	Transaction Set Trailer	M	1			Must use

## Notes:

- 1/0500L The N1 segment identifies the organization originating and receiving the transaction set.
- 1/0500 The N1 segment identifies the organization originating and receiving the transaction set.
- 2/0100L The HL levels are group work candidate and work candidate. Valid HL parent-child relationships are 1) group work candidate-group work candidate and 2) group work candidate-work candidate.
- 2/0100 The HL levels are group work candidate and work candidate. Valid HL parent-child relationships are 1) group work candidate-group work candidate and 2) group work candidate-work candidate.
- 2/0700 The YNQ segment identifies conditions related to a maintenance or repair requirement.
- 2/1500L The LM loop identifies management data that pertains to each use of the HL loop.
- 2/1500 The LM loop identifies management data that pertains to each use of the HL loop.
- 2/1900L The NM1 segment identifies individuals and organizations involved in identifying, coordinating or performing maintenance.
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ST Transaction Set Header

Pos: 0100Max: 1

Heading - Mandatory

Loop: N/AElements: 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.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST01	143	Transaction Set Identifier Code	M	ID	3/3	Must use
Description: Code uniquely identifying a Transaction Set						
Code Name						
650 Maintenance Service Order						
ST02	329	Transaction Set Control Number	M	AN	4/9	Must use
Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set						
DLMS Note: A unique number assigned by the originator of the transaction set, or the originator's application program.						
ST03	1705	Implementation Convention Reference	O	AN	1/35	Used
Description: Reference assigned to identify Implementation Convention						
DLMS Note: Use to indicate this transmission uses the 650A DLMS Implementation Convention (IC). Enter the DLMS IC 004030F650A0AA00						

BGN Beginning Segment

Pos: 0200Max: 1

Heading - Mandatory

Loop: N/AElements: 5

User Option (Usage): Must use

Purpose: To indicate the beginning of a transaction set

- Syntax Rules:
- C0504 - If BGN05 is present, then BGN04 is required.

- Semantics:
- BGN02 is the transaction set reference number.
  - BGN03 is the transaction set date.
  - BGN04 is the transaction set time.
  - BGN05 is the transaction set time qualifier.
  - BGN06 is the transaction set reference number of a previously sent transaction affected by the current transaction.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BGN01	353	Transaction Set Purpose Code	M	ID	2/2	Must use
<b>Description:</b> Code identifying purpose of transaction set						
<b>Code Name</b>						
00 Original						
77 Simulation Exercise						
<b>DLMS Note:</b>						
Use to identify a simulated mobilization exercise transaction set. Activities initiating simulated mobilization exercises must ensure complete coordination with all activities involved. All transaction set recipients must use extreme caution to ensure that individual transactions do not process as action documents which affect accountable records.						
BGN02	127	Reference Identification	M	AN	1/50	Must use
<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 code 'Z' for this data element to satisfy mandatory X12 Requirements.						
BGN03	373	Date	M	DT	8/8	Must use
<b>Description:</b> Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year						
<b>DLMS Note:</b> This date corresponds to the Universal Time Coordinate (UTC).						
BGN07	640	Transaction Type Code	O	ID	2/2	Used
<b>Description:</b> Code specifying the type of transaction						
<b>Code Name</b>						
WO Work Order						
<b>DLMS Note:</b>						
For Medical use in transaction for transmission of a request for assembly maintenance action.						
BGN08	306	Action Code	O	ID	1/2	Used
<b>Description:</b> Code indicating type of action						

Code	Name
2	Change (Update) <div><b>DLMS Note:</b> <i>For Medical use in transaction for transmission of a request to add or change an assembly maintenance action.</i></div>
3	Delete <div><b>DLMS Note:</b> <i>For Medical use in transaction for transmission of a request to delete an assembly maintenance action. Applies to Component data information.</i></div>
17	Create <div><b>DLMS Note:</b> <i>For Medical use in transaction for initial transmission of a request for assembly maintenance action.</i></div>

REFReference Identification

Pos: 0300

Max: >1

Heading - Optional

Loop: N/A

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.

DLMS Note:

Must use this 1/REF/0300 to identify the Build Directive Number for this transaction.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage																																				
REF01	128	Reference Identification Qualifier	M	ID	2/3	Must use																																				
<b>Description:</b> Code qualifying the Reference Identification																																										
<b>DLMS Note:</b> <i>The following codes are authorized.</i>																																										
<table><tr><th>Code</th><th>Name</th></tr><tr><td>89</td><td>Assembly Number</td></tr><tr><td colspan="2"><b>DLMS Note:</b></td></tr><tr><td colspan="2"><i>For Medical use in transactions to identify the Unit Assembly Number for medical/surgical component assembly.</i></td></tr><tr><td>IQ</td><td>End Item</td></tr><tr><td colspan="2"><b>DLMS Note:</b></td></tr><tr><td colspan="2"><i>1. For Medical use in transactions to identify the End Item Receipt Document Number for medical/surgical component assembly.</i></td></tr><tr><td colspan="2"><i>2. End Item Receipt Document Number accommodates a DSCP requirement. The USAMMA ERP does not use this data.</i></td></tr><tr><td>JB</td><td>Job (Project) Number</td></tr><tr><td colspan="2"><b>DLMS Note:</b></td></tr><tr><td colspan="2"><i>For Medical use in transactions to identify the Project Order Number for medical/surgical component assembly.</i></td></tr><tr><td>TN</td><td>Transaction Reference Number</td></tr><tr><td colspan="2"><b>DLMS Note:</b></td></tr><tr><td colspan="2"><i>Use to identify the transaction number. This is the customer's document number.</i></td></tr><tr><td>WO</td><td>Work Order Number</td></tr><tr><td colspan="2"><b>DLMS Note:</b></td></tr><tr><td colspan="2"><i>For Medical use in transactions to identify the Build Directive Number for medical/surgical component assembly.</i></td></tr><tr><td colspan="2"><i>A data maintenance action was approved in version 5010. The approved code/name is "BDN - Build Directive Number".</i></td></tr></table>							Code	Name	89	Assembly Number	<b>DLMS Note:</b>		<i>For Medical use in transactions to identify the Unit Assembly Number for medical/surgical component assembly.</i>		IQ	End Item	<b>DLMS Note:</b>		<i>1. For Medical use in transactions to identify the End Item Receipt Document Number for medical/surgical component assembly.</i>		<i>2. End Item Receipt Document Number accommodates a DSCP requirement. The USAMMA ERP does not use this data.</i>		JB	Job (Project) Number	<b>DLMS Note:</b>		<i>For Medical use in transactions to identify the Project Order Number for medical/surgical component assembly.</i>		TN	Transaction Reference Number	<b>DLMS Note:</b>		<i>Use to identify the transaction number. This is the customer's document number.</i>		WO	Work Order Number	<b>DLMS Note:</b>		<i>For Medical use in transactions to identify the Build Directive Number for medical/surgical component assembly.</i>		<i>A data maintenance action was approved in version 5010. The approved code/name is "BDN - Build Directive Number".</i>	
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REF02	127	Reference Identification	X	AN	1/50	Used																																				
<b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier																																										

DTM

Date/Time Reference

Pos: 0400

Max: >1

Heading - Optional

Loop: N/A

Elements: 2

User Option (Usage): Used

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.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	Date/Time Qualifier	M	ID	3/3	Must use
<div><div>Description: Code specifying type of date or time, or both date and time</div><div>DLMS Note: The following codes are authorized.</div><div><div><div>Code</div><div>Name</div></div><div>RFDRequested Finish</div><div>DLMS Note: For Medical use in transactions to identify the Build Completion Date for medical/surgical component assembly.</div></div></div>						
DTM02	373	Date	X	DT	8/8	Used
<div><div>Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year</div></div>						



N1	Name	Pos: 0500	Max: 1
		Heading - Optional	
		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:

- 1. Must use the 1/N1/0500 loop to identify the organization to receive the transaction set and the organization originating the transaction set.
- 2. May use additional iterations of the 1/N1/0500 loop to identify other organizations associated the transaction set.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage																								
N101	98	Entity Identifier Code	M	ID	2/3	Must use																								
<b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual																														
<b>DLMS Note:</b> <i>The following codes are authorized.</i>																														
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N103	66	Identification Code Qualifier	X	ID	1/2	Used																								
<b>Description:</b> Code designating the system/method of code structure used for Identification Code (67)																														
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<i>DLMS enhancement; see introductory DLMS note 3a.</i>																														
M4	Department of Defense Routing Identifier Code (RIC)																													
N104	67	Identification Code	X	AN	2/80	Used																								
<b>Description:</b> Code identifying a party or other code																														

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N106	98	Entity Identifier Code	O	ID	2/3	Used
<b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual						
<b>Code Name</b>						
FR		Message From	<b>DLMS Note:</b> <i>Use with the appropriate 1/N101/0500 code to indicate that the organization cited in N104 is originating the transaction set.</i>			
TO		Message To	<b>DLMS Note:</b> <i>Use with the appropriate 1/N101/0500 code to indicate that the organization cited in N104 is the action organization receiving the transaction set.</i>			

HL Hierarchical Level

Pos: 0100

Max: 1

Detail - Mandatory

Loop: HL

Elements: 4

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.
  - 5. 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:

For use in End Item Data, Assemblage Control Data, and Component Data loops.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number	M	AN	1/12	Must use
		<b>Description:</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure				
		<b>DLMS Note:</b> <i>In the first 2/HL/0100 loop iteration, cite numeric 1. In each subsequent loop iteration, increase incrementally by 1.</i>				
HL02	734	Hierarchical Parent ID Number	O	AN	1/12	Used
		<b>Description:</b> Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to				
HL03	735	Hierarchical Level Code	M	ID	1/2	Must use
		<b>Description:</b> Code defining the characteristic of a level in a hierarchical structure				
		<b><u>Code</u>   <u>Name</u></b>				
		A	Assembly			
		<b>DLMS Note:</b>				
		<i>For Medical use in Assemblage Control Data (DIC C2B) loop.</i>				
		F	Component			
		<b>DLMS Note:</b>				
		<i>For Medical use in Component Data (DIC C2D) loop.</i>				
		EN	End Item			
		<b>DLMS Note:</b>				
		<i>For Medical use in End Item Data (IDIC C2A) loop.</i>				
HL04	736	Hierarchical Child Code	O	ID	1/1	Used
		<b>Description:</b> Code indicating if there are hierarchical child data segments subordinate to the level being described				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
All valid standard codes are used.						

REFReference Identification

Pos: 0300

Max: >1

Detail - Optional

Loop: HL

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.

DLMS Note:

For Medical use in Assemblage Control Data (C2B) loops and Component Data (C2D) loops.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier	M	ID	2/3	Must use
<b>Description:</b> Code qualifying the Reference Identification						
<b>DLMS Note:</b> <i>The following codes are authorized.</i>						
<b><u>Code</u> <u>Name</u></b>						
55      Sequence Number						
<b>DLMS Note:</b> <i>For Medical use in Component Data loops to identify the Sort Sequence.</i>						
QQ      Unit Number						
<b>DLMS Note:</b> <i>For Medical use in Assemblage Control Data loops to identify the Assembly Control Number for medical/surgical component assembly.</i>  <i>A data maintenance action was approved in version 5010. The approved code/name is “CAN – Assembly Control Number”.</i>						
REF02	127	Reference Identification	X	AN	1/50	Used
<b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier						

LINItem Identification

Pos: 0400

Max: >1

Detail - Optional

Loop: HL

Elements: 6

User Option (Usage): Used

Purpose: To specify basic item identification data

- Syntax Rules:
- P0405 - If either LIN04 or LIN05 is present, then the other is required.
  - P0607 - If either LIN06 or LIN07 is present, then the other is required.
  - P0809 - If either LIN08 or LIN09 is present, then the other is required.
  - P1011 - If either LIN10 or LIN11 is present, then the other is required.
  - P1213 - If either LIN12 or LIN13 is present, then the other is required.
  - P1415 - If either LIN14 or LIN15 is present, then the other is required.
  - P1617 - If either LIN16 or LIN17 is present, then the other is required.
  - P1819 - If either LIN18 or LIN19 is present, then the other is required.
  - P2021 - If either LIN20 or LIN21 is present, then the other is required.
  - P2223 - If either LIN22 or LIN23 is present, then the other is required.
  - P2425 - If either LIN24 or LIN25 is present, then the other is required.
  - 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.
  - P3031 - If either LIN30 or LIN31 is present, then the other is required.

- Semantics:
- LIN01 is the line item identification

- Comments:
- 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.

DLMS Note:

1. Use in 2/HL/0100 transaction loops to identify the materiel.

2. For Medical use in End Item Data (C2A) loop, Assemblage Control Data (C2B) loops and Component Data (C2D) loops.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN02	235	Product/Service ID Qualifier	M	ID	2/2	Must use
<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)						
<b>DLMS Note:</b> <i>The following codes are authorized.</i>						
<b><u>Code</u> <u>Name</u></b>						
A3	Locally Assigned Control Number					
<b>DLMS Note:</b> <i>Must use with the Assemblage Control Data (C2B) loop, to identify the Assemblage Identification Number (AIN).</i>						
FS	National Stock Number					
<b>DLMS Note:</b> <i>Must use with the Component Data (C2D) loop only, to identify the stock number.</i>						
SW	Stock Number					
<b>DLMS Note:</b> <i>Must use with the End Item Data (C2A) loop only, to identify the End Item Stock Number.</i>						
LIN03	234	Product/Service ID	M	AN	1/48	Must use

Ref	Id	Element Name	Req	Type	Min/Max	Usage
<b>Description:</b> Identifying number for a product or service						
LIN04	235	Product/Service ID Qualifier	X	ID	2/2	Used
<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)						
<b>DLMS Note:</b> For Medical use in End Item Data and Component Data loops.						
<b>Code Name</b>						
OE Original Equipment Number						
<b>DLMS Note:</b>						
Use in Component Data loops to identify the Original Component Stock Number for medical/surgical component assembly.						
LIN05	234	Product/Service ID	X	AN	1/48	Used
<b>Description:</b> Identifying number for a product or service						
<b>DLMS Note:</b> For Medical use in the Component Data loop.						
LIN06	235	Product/Service ID Qualifier	X	ID	2/2	Used
<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)						
<b>DLMS Note:</b> 1. For Medical use in the Component Data loop.						
2. The following codes are authorized.						
<b>Code Name</b>						
N4 National Drug Code in 5-4-2 Format						
<b>DLMS Note:</b>						
Use only to identify a National Drug Code. NSN must be identified in LIN02/03.						
VC Vendor's (Seller's) Catalog Number						
<b>DLMS Note:</b>						
Use only to identify the Prime Vendor's Catalog Number. NSN must be identified in LIN02/03.						
VP Vendor's (Seller's) Part Number						
<b>DLMS Note:</b>						
Use only to identify the Prime Vendor's Part Number. NSN must be identified in LIN02/03.						
LIN07	234	Product/Service ID	X	AN	1/48	Used
<b>Description:</b> Identifying number for a product or service						

QTY

Quantity

Pos: 0600

Max: >1

Detail - Optional

Loop: HL

Elements: 3

User Option (Usage): Used

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.

- DLMS Note:
- 1. Use in 2/HL/0100 transaction loops to identify the quantity being requested.
  - 2. For Medical use in End Item Data (C2A) and Component Data (C2D) loops.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage																												
QTY01	673	Quantity Qualifier	M	ID	2/2	Must use																												
<b>Description:</b> Code specifying the type of quantity																																		
<b>DLMS Note:</b> <i>The following codes are authorized.</i>																																		
<table><tr><th>Code</th><th>Name</th></tr><tr><td>63</td><td>On Order Quantity</td></tr><tr><td colspan="2"><b>DLMS Note:</b></td></tr><tr><td colspan="2">1. Use to identify the number of assemblies being requested, Total Number of Assemblages in End Item Data loop.</td></tr><tr><td colspan="2">2. Use to identify the quantity of each component that is to be placed in an assembly, Basic Quantity in the Component Data loop.</td></tr><tr><td>AP</td><td>Order Quantity Multiple</td></tr><tr><td colspan="2"><b>DLMS Note:</b></td></tr><tr><td colspan="2">Use to identify the Extended Quantity of a component part in an assembly in the Component Data loop.</td></tr><tr><td>SH</td><td>Shortage</td></tr><tr><td colspan="2"><b>DLMS Note:</b></td></tr><tr><td colspan="2">Use to identify the Quantity Authorized Short of a component part in an assembly in the Component Data loop.</td></tr><tr><td>T5</td><td>Total Number of Units</td></tr><tr><td colspan="2"><b>DLMS Note:</b></td></tr><tr><td colspan="2">Use as needed in the end item data loop to identify the total number of lines in the Assemblage Identification Number (AIN).</td></tr></table>							Code	Name	63	On Order Quantity	<b>DLMS Note:</b>		1. Use to identify the number of assemblies being requested, Total Number of Assemblages in End Item Data loop.		2. Use to identify the quantity of each component that is to be placed in an assembly, Basic Quantity in the Component Data loop.		AP	Order Quantity Multiple	<b>DLMS Note:</b>		Use to identify the Extended Quantity of a component part in an assembly in the Component Data loop.		SH	Shortage	<b>DLMS Note:</b>		Use to identify the Quantity Authorized Short of a component part in an assembly in the Component Data loop.		T5	Total Number of Units	<b>DLMS Note:</b>		Use as needed in the end item data loop to identify the total number of lines in the Assemblage Identification Number (AIN).	
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T5	Total Number of Units																																	
<b>DLMS Note:</b>																																		
Use as needed in the end item data loop to identify the total number of lines in the Assemblage Identification Number (AIN).																																		
QTY02	380	Quantity	X	R	1/15	Used																												
<b>Description:</b> Numeric value of quantity																																		
<b>DLMS Note:</b> 1. Express as whole number with no decimals.																																		
2. A field size exceeding 5 positions may not be received or understood by the recipient's automated processing system. See introductory DLMS note 3c.																																		
QTY03	C001	Composite Unit of Measure	O	Comp		Used																												
<b>Description:</b> To identify a composite unit of measure(See Figures Appendix for examples of use)																																		



<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
QTY03-01	355	<b>Unit or Basis for Measurement Code</b>  <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken  <b>DLMS Note:</b> 1. Use to identify the unit of issue for materiel requested. 2. For use with QTY01 codes 63, AP, and SH. 3. DLMS users see the DLMS Unit of Issue and Purchase Unit Conversion Table for available codes.	M	ID	2/2	Must use
QTY03-04	355	<b>Unit or Basis for Measurement Code</b>  <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken  <b>DLMS Note:</b> 1. For Medical use in Component Data loops to identify the Unit of Measure for materiel requested. Use in conjunction with QTY01 code '63'. 2. DLMS users see the DLMS Unit of Issue and Purchase Unit Conversion Table for available codes.	O	ID	2/2	Used
QTY03-06	649	<b>Multiplier</b>  <b>Description:</b> Value to be used as a multiplier to obtain a new value  <b>DLMS Note:</b> For Medical use in Component Data loops to identify the Measurement Quantity for materiel requested. Use in conjunction with QTY01 code '63'.	O	R	1/10	Used

YNQ Yes/No Question

Pos: 0700

Max: >1

Detail - Optional

Loop: HL

Elements: 2

**User Option (Usage):** Used

**Purpose:** To identify and answer yes and no questions, including the date, time, and comments further qualifying the condition

- Syntax Rules:**
- E010910 - Only one of YNQ01, YNQ09 or YNQ10 may be present.
  - P0304 - If either YNQ03 or YNQ04 is present, then the other is required.
  - C0908 - If YNQ09 is present, then YNQ08 is required.

- Semantics:**
- YNQ02 confirms or denies the statement made in YNQ01, YNQ09 or YNQ10. A "Y" indicates the statement is confirmed; an "N" indicates the statement is denied.
  - YNQ10 contains a free-form question when codified questions are not available.

**DLMS Note:**

*For Medical use in Component Data (C2D) loops.*

**Element Summary:**

Ref	Id	Element Name	Req	Type	Min/Max	Usage
YNQ01	1321	Condition Indicator	X	ID	2/2	Used
<b>Description:</b> Code indicating a condition						
<b>Code</b> <b>Name</b>						
ZZ Mutually Defined						
<b>DLMS Note:</b>						
<i>Use in Component Data (C2D) loops to identify the Inspection Required Indicator for medical/surgical component assembly.</i>						
<i>A data maintenance action was approved in version 5030. The approved code/name is "CAI – Component Assembly Inspection Required".</i>						
YNQ02	1073	Yes/No Condition or Response Code	M	ID	1/1	Must use
<b>Description:</b> Code indicating a Yes or No condition or response						

AMT Monetary Amount

Pos: 0800Max: >1

Detail - Optional

Loop: HLElements: 3

User Option (Usage): Used

Purpose: To indicate the total monetary amount

**DLMS Note:**

For Medical use in End Item Data (C2A) loop.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
AMT01	522	Amount Qualifier Code	M	ID	1/3	Must use				
Description: Code to qualify amount										
DLMS Note: The following codes are authorized.										
<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>TC</td><td>Proposed Cost</td></tr></table>							<u>Code</u>	<u>Name</u>	TC	Proposed Cost
<u>Code</u>	<u>Name</u>									
TC	Proposed Cost									
DLMS Note: Use in End Item Data loop to identify the Assembly Estimated Cost.										
AMT02	782	Monetary Amount	M	R	1/18	Must use				
Description: Monetary amount										
AMT03	478	Credit/Debit Flag Code	O	ID	1/1	Used				
Description: Code indicating whether amount is a credit or debit										

MEA Measurements

Pos: 1000

Max: >1

Detail - Optional

Loop: HL

Elements: 3

**User Option (Usage):** Used

**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:**
1. Use multiple repetitions to identify any measurement/dimensions
  2. For Medical use in the Component Data (C2D) loop.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MEA01	737	Measurement Reference ID Code	O	ID	2/2	Used
<b>Description:</b> Code identifying the broad category to which a measurement applies						
<b>DLMS Note:</b> The following codes are authorized.						
<b>Code Name</b>						
PD Physical Dimensions						
<b>DLMS Note:</b>						
Use in the Component Data loop to define the Unit Cube being passed in MEA03.						
WT Weights						
<b>DLMS Note:</b>						
Use in the Component Data loop to define the Assembly Unit of Issue Weight being passed in MEA03.						
MEA02	738	Measurement Qualifier	O	ID	1/3	Used
<b>Description:</b> Code identifying a specific product or process characteristic to which a measurement applies						
<b>DLMS Note:</b> 1. Use to identify the specific dimension/measurement quantified in MEA03.						
2. The following codes are authorized.						
<b>Code Name</b>						
U Weight per Unit						
<b>DLMS Note:</b>						
Use in the Component Data loop to define the Assembly Unit of Issue Weight being passed in MEA03.						
UCB Cube						
<b>DLMS Note:</b>						

		<u>Code</u>	<u>Name</u>			
		Use in the Component Data loops to define the Unit Cube being passed in MEA03.				
MEA03	739	Measurement Value	X	R	1/20	Used
Description: The value of the measurement						

LM

Code Source Information

Pos: 1500

Max: 1

Detail - Optional

Loop: LM

Elements: 1

User Option (Usage): Used

Purpose: To transmit standard code list identification information

Comments:

1. LM02 identifies the applicable industry code list source information.

DLMS Note:

Use this 2/LM/1500 loop to identify coded information maintained in department or agency documentation.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LM01	559	Agency Qualifier Code	M	ID	2/2	Must use
Description: Code identifying the agency assigning the code values						
Code Name						
DF Department of Defense (DoD)						

LQ Industry Code

Pos: 1600

Max: >1

Detail - Mandatory

Loop: LM

Elements: 2

User Option (Usage): Must use

Purpose: Code to transmit standard industry codes

- Syntax Rules:
- 1. C0102 - If LQ01 is present, then LQ02 is required.

DLMS Note:

1. Use to identify codes, as appropriate, consistent with management information requirements.

2. For Medical use in the End Item Data (C2A), Assemblage Control Data (C2B), and the Component Data (C2D) loops as required.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage																																																				
LQ01	1270	Code List Qualifier Code	O	ID	1/3	Used																																																				
<b>Description:</b> Code identifying a specific industry code list																																																										
<b>DLMS Note:</b> <i>The following codes are authorized.</i>																																																										
<table><tr><th>Code</th><th>Name</th></tr><tr><td>0</td><td>Document Identification Code</td></tr><tr><td colspan="2"><b>DLMS Note:</b></td></tr><tr><td colspan="2">1. <i>The DIC is retained in the DLMS to facilitate transaction conversion in a mixed DLSS/DLMS environment. Continued support of the DIC in a full DLMS environment will be assessed at a future date.</i></td></tr><tr><td colspan="2">2. <i>Use in the End Item Data, Assemblage Control, and Component Data loops.</i></td></tr><tr><td colspan="2">3. <i>Future streamlined data; see introductory DLMS note 3b.</i></td></tr><tr><td>33</td><td>Air Commodity and Special Handling Code</td></tr><tr><td colspan="2"><b>DLMS Note:</b></td></tr><tr><td colspan="2"><i>Use in the Component Data loop to identify the Air Commodity and Special Handling Code.</i></td></tr><tr><td>34</td><td>Water Commodity and Special Handling Code</td></tr><tr><td colspan="2"><b>DLMS Note:</b></td></tr><tr><td colspan="2"><i>Use in the Component Data loop to identify the Water Commodity and Special Handling Code.</i></td></tr><tr><td>AL</td><td>Special Requirements Code</td></tr><tr><td colspan="2"><b>DLMS Note:</b></td></tr><tr><td colspan="2">1. <i>Use to identify precedence, special handling, and processing requirements.</i></td></tr><tr><td colspan="2">2. <i>Use in the Component Data loop to identify the Special Requirements Code.</i></td></tr><tr><td>EQ</td><td>Controlled Inventory Item Code</td></tr><tr><td colspan="2"><b>DLMS Note:</b></td></tr><tr><td colspan="2"><i>Use in the Component Data loop to identify the Controlled Inventory Item Code.</i></td></tr><tr><td>FE</td><td>Shelf Life Code</td></tr><tr><td colspan="2"><b>DLMS Note:</b></td></tr><tr><td colspan="2"><i>Use in the Component Data loop to identify the Shelf Life Code.</i></td></tr><tr><td>HMC</td><td>Hazardous Material Content Code</td></tr><tr><td colspan="2"><b>DLMS Note:</b></td></tr><tr><td colspan="2">1. <i>Use in the Component Data loop to identify the "Hazardous Characteristics Code".</i></td></tr><tr><td colspan="2">2. <i>Implementation Note: This is an X12 Migration Code approved for use in Version 5020. Implementers must manually update 4030 software to recognize this code.</i></td></tr></table>							Code	Name	0	Document Identification Code	<b>DLMS Note:</b>		1. <i>The DIC is retained in the DLMS to facilitate transaction conversion in a mixed DLSS/DLMS environment. Continued support of the DIC in a full DLMS environment will be assessed at a future date.</i>		2. <i>Use in the End Item Data, Assemblage Control, and Component Data loops.</i>		3. <i>Future streamlined data; see introductory DLMS note 3b.</i>		33	Air Commodity and Special Handling Code	<b>DLMS Note:</b>		<i>Use in the Component Data loop to identify the Air Commodity and Special Handling Code.</i>		34	Water Commodity and Special Handling Code	<b>DLMS Note:</b>		<i>Use in the Component Data loop to identify the Water Commodity and Special Handling Code.</i>		AL	Special Requirements Code	<b>DLMS Note:</b>		1. <i>Use to identify precedence, special handling, and processing requirements.</i>		2. <i>Use in the Component Data loop to identify the Special Requirements Code.</i>		EQ	Controlled Inventory Item Code	<b>DLMS Note:</b>		<i>Use in the Component Data loop to identify the Controlled Inventory Item Code.</i>		FE	Shelf Life Code	<b>DLMS Note:</b>		<i>Use in the Component Data loop to identify the Shelf Life Code.</i>		HMC	Hazardous Material Content Code	<b>DLMS Note:</b>		1. <i>Use in the Component Data loop to identify the "Hazardous Characteristics Code".</i>		2. <i>Implementation Note: This is an X12 Migration Code approved for use in Version 5020. Implementers must manually update 4030 software to recognize this code.</i>	
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LQ02	1271	Industry Code	X	AN	1/30	Used																																																				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
<b>Description:</b> Code indicating a code from a specific industry code list						



MTX    Text

Pos: 2500

Max: 1

Detail - Optional

Loop: MTX

Elements: 2

User Option (Usage): Used

Purpose: To specify textual data

- Syntax Rules:
- 1. C0102 - If MTX01 is present, then MTX02 is required.
  - 2. C0302 - If MTX03 is present, then MTX02 is required.
  - 3. C0504 - If MTX05 is present, then MTX04 is required.

- Semantics:
- 1. MTX05 is the number of lines to advance before printing.

- Comments:
- 1. If MTX04 is "AA - Advance the specific number of lines before print", then MTX05 is required.

DLMS Note:

For Medical use in End Item Data (C2A) and Component Data (C2D) loops.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MTX01	363	Note Reference Code	O	ID	3/3	Used
<b>Description:</b> Code identifying the functional area or purpose for which the note applies						
<b>Code    Name</b>						
IID    Inventory (Stock) Description						
<b>DLMS Note:</b>						
1. Use to identify the Assembly Nomenclature in the End Item Data loop.						
2. Use to identify the Component Nomenclature in the Component Data loop.						
MTX02	1551	Message Text	X	AN	1/4096	Used
<b>Description:</b> To transmit large volumes of message text						

SE Transaction Set Trailer

Pos: 2900

Max: 1

Detail - 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.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SE01	96	Number of Included Segments	M	N0	1/10	Must use
		<b>Description:</b> Total number of segments included in a transaction set including ST and SE segments				
SE02	329	Transaction Set Control Number	M	AN	4/9	Must use
		<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>				