



**DEFENSE LOGISTICS AGENCY  
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August 04, 2015

**MEMORANDUM FOR SUPPLY PROCESS REVIEW COMMITTEE (PRC) MEMBERS  
CONTRACT ADMINISTRATION PRC MEMBERS  
FINANCE PRC MEMBERS**

**SUBJECT:** Approved Defense Logistics Management Standards (DLMS) Change (ADC) 1165, Wide Area Workflow (WAWF) eBusiness Suite, Invoicing, Receipt, Acceptance, and Property Transfer (iRAPT) Create Property Transfer Document (PTD) from DLMS 856S Shipment Status (Contract Administration)

The attached change to Defense Logistics Manual (DLM) 4000.25, Defense Logistics Management Standards, is approved for joint implementation. DLA Transaction Services and the WAWF iRAPT Program Management Office are targeting November 20, 2015 for implementation of this change.

Addressees may direct questions to the DLMSO point of contact: Ms. Samantha Khuon, DLMSO Contract Administration Lead, 703-767-5288; DSN 427-5288; [Samantha.Khuon@dla.mil](mailto:Samantha.Khuon@dla.mil). Others must contact their Component designated representative.

A handwritten signature in black ink, appearing to read "D. C. Pipp", is written over the printed name of Donald C. Pipp.

DONALD C. PIPP  
Director  
Defense Logistics Management  
Standards Office

Attachment

cc:  
ODASD (SCI)  
WAWF PM

**Attachment to ADC 1165**  
**Wide Area Workflow (WAWF) eBusiness Suite – Invoicing, Receipt, Acceptance, and Property Transfer (iRAPT), Create Property Transfer Document (PTD) from DLMS 856S Shipment Status**

**1. ORIGINATORS:**

- a. **Submitting Service/Agency:** OSD Comptroller, Business Integration Office, (703) 697-0503
- b. **Functional POCs:** Defense Procurement and Acquisition Policy (DPAP), Program Development and Implementation (PDI), (703) 697-4384
- c. **Technical POC:** WAWF Program Management Office (PMO), (703) 697-4452

**2. FUNCTIONAL AREAS:**

- a. **Functional Areas:** Government Furnished Property (GFP) accountability
- b. **Functional Processes:** The Global Exchange (GEX) accepts the DLMS 856S Supply Status transaction and uses the data to create an 856 Property Transfer Document (PTD) for iRAPT.

**3. REFERENCES:**

- a. iRAPT Engineering Change Proposal (ECP 0802), WAWF Accept EDI 856S to Create Property Transfer Document, Preliminary Design Review (PDR)
- b. iRAPT ECP 0802, WAWF Accept EDI 856S to Create Property Transfer Document, Software Requirements Review (SRR)
- c. Approved Defense Logistics Management System (DLMS) Change ([ADC 1042](#)), Revise Wide Area Workflow (WAWF) Advance Shipment Notice (ASN) to Accommodate Defense Logistics Agency (DLA) Interface for Reparable Government Furnished Property (GFP), January 07, 2013

**4. APPROVED CHANGE(S):**

- a. **Brief Overview of Change:** This DLMS change modifies the Defense Automatic Addressing System (DAAS) routing of the DLMS 856S, Version 4030, Shipment Status Transaction, to send images to the DLA Transaction Services GEX for translation and systemic creation of the WAWF<sup>1</sup> iRAPT 856 GFP Property System Notification (PSN) Property Transfer Document (PTD) (856 GFP PSN (PTD)) transaction. This change also modifies the DAAS routing of the DLMS 527R Receipt with related GFP contract number, without restriction to Document Identifier Code (DIC) D4M, to send images to GEX for translation and transmission to iRAPT. The GFP Module of the WAWF IUID Registry is updated based on the PTD transaction and the data is captured for use in the WAWF Management Reporting System (MRS) reporting database.

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<sup>1</sup> With the 5.6 release, the Wide Area Workflow (WAWF) name has been changed to Invoicing, Receipt, Acceptance and Property Transfer (iRAPT) in the Wide Area Workflow e-Business Suite application. Throughout this document the terms such as iRAPT, IUID Registry and MRS will be used after their first occurrence.

**b. Background:**

(1) DOD supply systems generate and use the DLMS 856S Shipment Status transaction to notify the ship-to activity and other status recipients of the shipment of materiel. These shipments include GFP that DOD activities ship to contractors. iRAPT does not currently accept the DLMS 856S format to create the iRAPT PTD. iRAPT has no visibility of these GFP shipments if DOD shipping activities do not also create an iRAPT PTD (they do not today). This lack of visibility eventually leads to a gap in the provisioning of GFP data to the IUID Registry. (The Registry visibility requirement is applicable to GFP regardless of whether the property has IUID applicability.)

(2) This process is similar to the changes described in ADC 1042 (Reference 3.c.) for the reparable returns process, which established interim interface procedures to document reparable item movement from a contractor's repair location to a DLA distribution center receiving activity. Use of DLMS transaction sets and mapping of data passed between the iRAPT system and DLA Distribution Standard System (DSS) provides source data updates to the IUID Registry. ADC 1042 was limited to the DLMS 527R/legacy DIC D4M and now needs to be expanded for all GFP related Receipts.

(3) In some Component business practices, particularly for Army, the contractor cites the contractor's DoDAAC as the bill-to party for GFM in the order initiating transaction. The contractor's DoDAAC contains a Government billing address the DoDAAC billing Type of Address Code (TAC) 3 address and a billing Communication Routing Identifier (COMMRI) associated with a Component financial system to route Interfund bills for GFM to a Government financial system. This inhibits distinguishing these orders as GFM – which Government pays for – vice Contractor Furnished Materiel (CFM) – which the contractor pays for. This is not a DLMS compliant process. In addition, contractors are not authorized to use Interfund billing. Component Finance PRC representatives were given listings of DoDAACs where this is done for coordination with Component Supply and DoDAAC PRC members to identify business processes where this may be occurring and address strategies for discontinuing this practice. This is not perceived to have a direct impact on the iRAPT process but is noteworthy because the requisition will appear as CFM (billing the contractor) when they are actually GFM (billing the government). The assumption is that the DLMS shipment status and receipt transaction will be populated correctly to include the contact number for GFM (GF Segment). For a discussion of this topic and associated action items, please see the meeting minutes (Item 6 on the attachment) for the March 4-5, 2015 FPRC meeting at: [www.dla.mil/j-6/dlms/Programs/Committees/Finance/financeprc.asp](http://www.dla.mil/j-6/dlms/Programs/Committees/Finance/financeprc.asp).

**c. Approved Change in Detail:** The following is a high level summary of process changes necessary for the DLMS 856S data to be used to create the iRAPT 856\_GFP PSN (PTD). Changes made subsequent to the staffing of the Proposed DLMS Change are highlighted in green. Enclosure 1 contains the Data Mapping of the DLMS 856S to the iRAPT- 856 Property Transfer Document (PTD).

**(1) DAAS/GEX/iRAPT Processing for Shipment Status:**

(a) Modify DAAS to route the DLMS 856S to iRAPT via GEX if the 856S contains a GFP related contract number (GF segment).

**Staffing Note:** While the ECP was more specific<sup>2</sup>, the presence of the GFP contract number is sufficient for DAAS routing logic. If the GF Segment is present, that is all that DAAS needs.

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<sup>2</sup> ECP802 documentation included the 856S is for GFP (not CFM) and the 856S ship-to is a contractor DoDAAD and the ship-from is a government DoDAAD, or the 856S ship-to is a government DoDAAC or the ship-from is a contractor DoDAAC.

**1.** Upon receipt of the DLMS 856S meeting the aforementioned criteria, GEX will create the 856\_GFP PSN (PTD) from the 856S and send it to iRAPT. The 856S must contain a contract number. If sufficient data is not available to create the PTD, GEX will drop the transaction.

**2.** The 856 GFP PTD will contain a system user ID (“Super-User”) to identify that it was originating from DLMS 856S via GEX.

**(b)** iRAPT will accept the transaction and:

**1.** Where there is a Property Receiver registered for the ship-to location, create the PTD transaction and place it into the Property Receiver’s folder.

- If the location is signed up for extracts, the document will be extracted to that location.

**Staffing Note:** The Ship-to location will receive both the DLMS 856S and iRAPT extract 856.

- For Contractors, all extracts will be routed to a contractor DoDAAC.

**2.** Where the document represents a contractor-to-government transfer and there is no Property Receiver registered for the ship-to location, iRAPT will create the PTD, but there will be no folder entry or extract.

**3.** Where the document represents a government-to-contractor transfer and there is no Property Receiver registered for the ship-to location, iRAPT will drop the transaction and no PTD will be created. The event will be logged and passed to the MRS for reporting purposes.

**4.** Where the document represents a government-to-contractor transfer, iRAPT will update the IUID Registry on document closure after contractor receipt.

**5.** Where the document represents a contractor-to-government transfer, iRAPT will update the IUID Registry on contractor shipment and again on document closure after government receipt.

**Staffing Note:** Not all GFP shipments will be tracked due to the lack of the registered ship-to per paragraph 4.c.(1) (c) 3. above. This negatively impacts the effectiveness of attempting to track GFP shipments through DLMS logistics transactions.

## **(2) DAAS/GEX/iRAPT Processing for Receipts:**

**(a)** Modify DAAS to route the DLMS 527R Receipt to iRAPT via GEX if the DLMS 527R contains a GFP related contract number (GF Segment).

**Staffing Note:** While the ECP Was more specific<sup>3</sup> the presence of the GFP related contract number is sufficient for DAAS routing logic. If the GF Segment is present, that is all that DAS needs.

**(b)** If EDI 527R meets the aforementioned criteria, GEX will create 856 GFP Receipt and route it to iRAPT with no translation.

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<sup>3</sup> ECP 802 documentation included the 527R is for GFP (not CFM), the 527R ship-to is a contractor DoDAAC and the ship-from is a government DoDAAC or the 527R ship-to is a government DoDAAC and the ship-from is a contractor DoDAAC.

(c) iRAPT will accept the transaction and, where a matching PTD is found, log the receipt.

(d) Where no PTD is found, the receipt will be dropped. An audit record will be kept of all 527R transactions dropped without a matching iRAPT PTD. The audit record log will be passed to the MRS for reporting purposes.

(e) The PTD created from the 856S can be closed by various methods:

1. on the web through a GFP receipt,
2. using an EDI 856 GFP Receipt,
3. using a 856 GFP Receipt (transformed from a 527R Receipt) or,

4. through a parameter based auto-close feature. If the PTD is auto-closed without a receipt, no transaction will be forwarded to the IUID Registry.

**Staffing Note:** This means that the IUID Registry will reflect GFM shipments to contractors that do not appear to be received. This will happen on a recurring basis when the contractor is only required to provide a DLMS 527R Materiel Receipt Acknowledgment to the source of supply and no DLMS 527R receipt is provided via DLA Transaction Services.

(f) Once a PTD is closed, there will be no further updates of the IUID Registry based upon that document.

(3) **IUID Registry Updating:** Where the PTD is closed based upon a receipt action (paragraph 4.c.(2)(e)), iRAPT will update the IUID Registry as follows:

(a) For government-to-contractor property transfers, update the IUID Registry upon contractor receipt.

(b) For contractor-to-government property transfers, update the IUID Registry upon contractor shipment and update the IUID Registry again upon government receipt.

**d. Revisions to DLM 4000.25 Manuals:** There are no changes to Defense Logistics Manuals, since this DLMS change is just documenting a transformation of transactions to enable iRAPT GFP processing.

**e. Approved Transaction Flow:** There are no changes to the standard transaction flows to and from the WAWF e-Business Suite of Applications.

**f. Alternatives:** Changing the business process may solve the issue, however the cost of redundant workload and change resistance make that alternative more costly and unrealistic. DOD supply systems may be modified to create and accept existing WAWF transactions for GFP, but that alternative is also too costly to be feasible.

**5. REASON FOR CHANGE:** iRAPT does not currently accept the DLMS 856S format to create the iRAPT PTD and iRAPT has no visibility of these GFP shipments because DOD shipping activities do not also create an iRAPT PTD. This change will improve the visibility of GFP shipments and improve the provisioning of GFP data in the IUID Registry.

## 6. ADVANTAGES AND DISADVANTAGES:

### a. Advantages:

(1) Modifying iRAPT to accept the DLMS 856S will capture information on GFP shipments that is not now captured and enable iRAPT to enter this GFP information into the IUID Registry. This will improve the IUID Registry's accuracy of GFP information.

(2) Modifying DAAS and/or GEX to route the appropriate universe of DLMS 856S Supply Status transactions to iRAPT will leverage existing EDI transactions to the same result as with the iRAPT 856S modification above and is necessary to achieve the benefits.

(3) These changes leverage existing DLMS transactions and may reduce costs across the DOD and DOD contractor enterprises with regard to GFP tracking and reporting.

### b. Disadvantages: None identified

## 7. ASSUMPTIONS USED OR WILL BE USED IN THE CHANGE OR NEW DEVELOPMENT:

### a. There are a several assumptions for this change identified in the ECP 0802 SRR:

(1) The assumption is that a valid DLMS compliant 856S contains sufficient data content to create a PTD.

(2) There will be minor changes to the data element requirements for creation of a PTD based upon the 856S document. The EDI 856S will contain either:

- The minimum set of data required to create a PTD document, or
- Data that iRAPT (or GEX) can use to logically fulfill any requirements for data not expressly provided in the EDI 856S.

(3) The EDI 856S will include IUID information for IUID's items.

(4) "Ship-to" and "ship-from" in the 856S will be DoDAACs.

(5) No changes required to the current manner in which iRAPT processes a 527R Receipt into the system.

**Staffing Note:** The WAWF iRAPT Team to verify that there is no change required to the iRAPT mapping from the current DLMS 527R, D4M translation to a repairable receiving report since they will now be processing PTDs for other than repairable items.

**Staffing Note:** A change is required in the OSD SCI policy on receipt imaging to attain the full capability of this change. Without the policy change, the volume of receipts will be low since many are currently transacted intra-system.

**8. ESTIMATED TIME LINE/IMPLEMENTATION TARGET:** The WAWF Joint Requirements Board approved WAWF ECP 0802 for development and deployment as part of WAWF Version 5.8 Deployment is scheduled for November 20, 2015 through November 22, 2015.

## 9. IMPACT:

**a. DLMS Data Elements:** There are no new DLMS data elements or changes to existing data elements introduced by this change.

**b. Automated Information Systems (AIS):**

(1) The WAWF e-Business Suite will be updated to accommodate transactional database changes. A new EDI\_AUDIT table will be created to log DLMS 856S and 527R transactions.

(2) There will be no 856 GFP file format changes in iRAPT.

**c. DLA Transaction Services:** GEX must be updated to accommodate the special routing of the DLMS 856S to GEX and subsequent translation from the DLMS 856S (4030) to the iRAPT 856 GFP PSN (PTD).

## 10. PDC 1165 RESPONSE TABLE:

Component	Response	
Air Force	Concurs without comment	Noted
Army	Concurs without comment	Noted
Marine Corps	Concurs with PDC as written	Noted
Navy	Concurs without comment	Noted
DLA	Concurs without comment	Noted
DLA Transactions Services	Concurs without comment	Noted
USTRAMSCOM	Abstains	Noted

## **Enclosure 1, Data Mapping of the DLMS 856S to the iRAPT- 856 Property Transfer Document (PTD)**

To open the 856S mapping file from within an MS Word file: Double-click on the icon below.



856S\_Mapping.xlsx

To open the 856S mapping file from within a PDF file: Double-click the attachment in the left panel view within the PDF file.



# VG Contractor to Government

## WAWF-856S Logical Map

### 856S Ship Notice/Manifest to WAWF GFP Ship Notice/Manifest

#### WAWF 5.8 Production

#REF!

#### 856 GFP 4010 WAWF UDF

←-----

#### 856S 4030 X12

X12s and UDFs may use the following special characters as data, "-" "(" ")" "/" ":" ";, as long as they do not use the same character as a composite delimiter.

#### X2U map (Backend Map)

#### Logic to Identify Transaction type

VG Contractor to  
Government

IF GF03 is present  
And  
N101 = ST where HL03 = W  
And  
N103 = 10  
And  
The left one or two characters of N104 are NOT  
in the Edit:/gex/etc/map/WAWF-  
856S\_Contractor\_dodaac.tbl lookup table

#### Route Trim/Cancel:

1/BSN/020

BSN02: Route Trim/Cancel IF Inbound BSN02 = RR.

BSN02: Fail transaction if mapped BSN02 is other than 14 or  
15 characters long.

BSN02 logic: When HL03 = W, and 2/REF/1500, REF01 = TN, map REF02 + REF0402 (when  
REF0401 = W8) If REF0401 = W8 is not present, map REF02

#### Lookup Tables:

Edit:/gex/etc/map/WAWF-  
856S\_ric\_dodaac.tbl  
Edit:/gex/etc/map/WAWF-  
856S\_Contractor\_dodaac.tbl

Require DLA RIC  
to DoDAAC table

<b>WAWF UDF 856GFP Import</b>						<b>856S X12</b>					
UDF Field	Description	Type	Min/Max	USE	Mapping Logic	856 Field	Description	Type	Min/Max	Use	Content
<b>WAWF Header Segment</b> Each extract will have a Header Segment. There will be one instance of the WAWF Header Segment per transaction, prior to the ST Segment.						<b>ISA/GS Wrapper</b>					
<b>0</b>	Record ID	ID	4/4	M	"WAWF"	<b>ISA01</b>	Authorization Information Qualifier	ID	2/2	M	
						<b>ISA02</b>	Authorization Information	AN	10/10	M	
						<b>ISA03</b>	Security Information Qualifier	ID	2/2	M	
						<b>ISA04</b>	Security Information	AN	10/10	M	
						<b>ISA05</b>	Interchange ID Qualifier	ID	2/2	M	
						<b>ISA06</b>	Interchange Sender ID	AN	15/15	M	
						<b>ISA07</b>	Interchange ID Qualifier	ID	2/2	M	
						<b>ISA08</b>	Interchange Receiver ID	AN	15/15	M	
						<b>ISA09</b>	Date	DT	6/6	M	
						<b>ISA10</b>	Time	TM	4/4	M	
						<b>ISA11</b>	Interchange Control Standards Identifier	ID	1/1	M	
						<b>ISA12</b>	Version Number	ID	5/5	M	
						<b>ISA13</b>	Interchange Control number	No	9/9	M	
						<b>ISA14</b>	Acknowledgment	ID	1/1	M	
<b>2</b>	Production/Test Indicator	ID	1/1	M	"T" Test "P" Production	<b>ISA15</b>	Test Indicator	ID	1/1	M	
						<b>ISA16</b>	Component Element Separator	AN	1/1	M	
						<b>GS01</b>	Functional Identifier Code	ID	2/2	M	
						<b>GS02</b>	Application Sender's Code	AN	2/15	M	
						<b>GS03</b>	Application Receiver's Code	AN	2/15	M	
						<b>GS04</b>	Date	DT	6/6	M	
						<b>GS05</b>	Time	TM	4/8	M	
						<b>GS06</b>	Group Control Number	No	1/9	M	
						<b>GS07</b>	Responsible Agency Code	ID	1/2	M	
<b>1</b>	Receiving Activity Code	AN	2/15	M		<b>GS08</b>	Version / Release / Industry Identifier Code	AN	1/12	M	

# Heading

ST Transaction Set Header 1/ST/010 1:1						ST Transaction Set Header 1/ST/0100 1:1					
0	Record ID	ID	2/3	M	"ST"						
1	Transaction Set Identifier Code	ID	3/3	M	856'	ST01	Transaction Set Identifier Code	ID	3/3	M	"856"
2	Transaction Set Control Number	NO	4/9	M		ST02	Transaction Set Control Number	NO	4/9	M	
3	Implementation Convention Reference	AN	1/35	O	Not Used	ST03	Implementation Convention Reference	AN	1/35	O	
BSN Beginning Segment for Ship Notice 1/BSN/020 1:1						BSN Beginning Segment for Ship Notice 1/BSN/0200 1:1					
0	Record ID	ID	2/3	M		If BSN07 is present, then BSN06 is required.					
1	Transaction Set Purpose Code	ID	2/2	M	Hardcode: '00' Original	BSN01	Transaction Set Purpose Code	ID	2/2	M	00 Original 77 Simulation Exercise ZZ Mutually Defined
2	Shipment Identification Shipment Number	AN	2/30	M	Route Trim transaction if inbound BSN02 = RR ELSE: When HL03 = W, and 2/REF/1500, REF01 = TN, map REF02 + REF0402 (when REF0401 = W8) If REF0401 = W8 is not present, map REF02 Fail transaction if mapped BSN02 is other than 14 or 15 characters long. CCYYMMDD	BSN02	Shipment Identification	AN	2/30	M	ZZ Supply Shipment Status RR Replacement Supply Shipment Status Transaction Note: 856S ZZ with BSN06=AS indicates supply shipment status. RR indicates shipment status was updated with revised information (e.g, pRFID, BOL, shipment pickup date).
3	Date – Date transaction set is created	DT	8/8	M		BSN03	Date – Transmission Date	DT	8/8	M	BSN03 is the date the shipment transaction set is created.
4	Time – Time expressed in 24-hour clock – use Universal Time Coordinate	TM	4/8	M	IF the Short is present write that to the WAWF UDF field	BSN04	Time	TM	4/8	M	BSN04 is the time the shipment transaction set is created. Time expressed in 24-

					IF short is not present write the Long field.						hour clock – use Universal Time Coordinate
<b>5</b>	Hierarchical Structure Code –	ID	4/4	O	Not Used	<b>BSN05</b>	Hierarchical Structure Code	ID	4/4	O	Not Used
<b>6</b>	Transaction Type Code	ID	2/2	O	If BSN06 = AS map TS	<b>BSN06</b>	Transaction Type Code	ID	2/2	O	AS Supply Shipment Status NC Material Release Order Forced Closure
<b>7</b>	Status Reason Code	ID	3/3	O	ELSE Route Trim Hardcode 048	<b>BSN07</b>	Status Reason Code	ID	3/3	X	014 Non-MILS Shipment Status (e.g., DD 1149) 048 IA Reworking/Transship Shipment Status 061 CCP Shipment Status (pRFID) 091 Transship/Crossdock Status (pRFID) A40 Updated Status (BSN02=RR) IV2 LRO Status WTP Navy CAV Status (POS)

<b>DTM Date/Time Reference 1/DTM/040</b>		<b>0:10</b>									
<b>0</b>	Record ID	ID	2/3	M	"DTM"						
<b>1</b>	Date/Time Qualifier	ID	3/3	M	007 Effective 050 Received 282 Previous Report 517 Inspected						
<b>2</b>	Date	DT	8/8	M	CCYYMMDD						
<b>3</b>	Time	TM	4/8	O	HHMMSS						

# Detail HL03 = V 1:1

HL Hierarchical Level LOOP 1:200,000					HL Hierarchical Level LOOP 1:200,000					
<b>HL Hierarchical Level 2/HL/010 1:1</b>					<b>HL Hierarchical Level 2/HL/0100 1:1</b>					
0	Record ID	ID	2/3	M	"HL"	HL01	Hierarchical ID number	AN	1/12	M
1	Hierarchical ID number	AN	1/12	M		HL02	Hierarchical Parent ID Number	AN	1/12	O
2	Hierarchical Parent ID Number	AN	1/12	O		HL03	Hierarchical Level Code	ID	1/2	M
3	Hierarchical Level Code	ID	1/2	M	V' Address Loop Map HL03 = W loop N1 data to V loop					V Address Information (Transaction Originator)
4	Hierarchical Child Code	ID	1/1	M	1' Child. HL03 = V loops will have child S loop(s)	HL04	Hierarchical Child Code	ID	1/1	M
<b>N1 Loop 0:200</b>					<b>N1 Loop 0:200</b>					
<b>VG Contractor to Government Mapping Logic</b>					<b>IF GF03 is present And N101 = ST where HL03 = W And N103 = 10 And The left one or two characters of N104 are NOT in the Edit:/gex/etc/map/WAWF-856S_Contractor_dodaac.tbl lookup table</b>					
<b>N1 Name 2/N1/220 0:1</b>					<b>N1 Name 2/N1/2200 0:1</b>					
0	Record ID	ID	2/3	M	"N1"	N101	Entity Identifier Code	ID	2/3	M
1	Entity Identifier Code	ID	2/3	M	<b>IF HL03 = W AND N101 = SB Create N1 segment where N101 = PG Prime Contractor (Shipper)</b>  <b>IF HL03 = V or W AND N101 = Z4 Create N1 segment where N101 = PG Prime Contractor (Shipper)</b>  <b>IF HL03 = W AND N101 = ST Create N1 segment where</b>					Used in I, V, W, and FI loops BS Bill and Ship To W loop BT Bill-to-Party W Loop CA Carrier W Loop CS Consolidator V Loop DA Delivery Address W Loop GP Gateway Provider V Loop

**N101 = AQ Account of  
Destination Party (Receiver)**

**IF HL03 = W AND N101 = BS  
Create N1 segment where  
N101 = AQ Account of  
Destination Party (Receiver)**

**IF HL03 = W AND N101 = DA  
Create N1 segment where  
N101 = AQ Account of  
Destination Party (Receiver)**

**IF HL03 = W AND N101 = RN  
Create N1 segment where  
N101 = AQ Account of  
Destination Party (Receiver)**

**IF HL03 = W AND N101 = SB  
Create N1 segment where  
N101 = 7D Contracting Officer  
Representative (ACO  
DoDAAC)**

**IF HL03 = V or W AND N101 =  
Z4 Create N1 segment where  
N101 = 7D Contracting Officer  
Representative (ACO  
DoDAAC)**

**IF HL03 = W AND N101 = OB  
Create N1 segment where  
N101 = BY Buying Party (PCO  
DoDAAC)**

**IF HL03 = V AND N101 = CS  
Create N1 segment where  
N101 = SF Ship From**

**IF HL03 = W AND N101 = DA  
Create N1 segment where  
N101 = ST Ship To**

**IF HL03 = W AND N101 = ST  
Create N1 segment where  
N101 = ST Ship To**

KK Registering Party  
W Loop  
KO Plant Clearance Officer  
OB Ordered By  
W Loop  
RN Repair or Refurbish  
Location V or W Loop  
SB Storage Area  
W Loop  
ST Ship To  
W Loop  
XN Planning/Maintenance  
Organization W Loop  
Z1 Party to Receive Status  
W Loop  
Z4 Owning Inventory Control  
Point V or W Loop  
Z5 Management Control  
Activity V or W Loop  
Z7 Mark-for Party  
W Loop  
ZB Party to Receive Credit  
V or W Loop

**IF HL03 = V or W AND N101 = RN Create N1 segment where N101 = ST Ship To**

**IF HL03 = W AND N101 = BS Create N1 segment where N101 = ST Ship To**

**2** Name AN 1/60 X  
**3** Identification Code Qualifier

**If 1, 9, or 10 are present, map X12 to UDF. If M4, map as 10.**

1 D-U-N-S Number, Dun & Bradstreet  
 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix  
 10 Department of Defense Activity Address Code (DODAAC)  
 33 Commercial and Government Entity (CAGE)  
 A2 Military Assistance Program Address Code (MAPAC)

**4** Identification Code AN 2/80 X

**If N103 = M4, do lookup on RIC value to get the DODAAC using the 856S\_ric\_dodaac.tbl, then map the DODAAC value.**

**If table lookup fails to find the incoming RIC, map "999999"**

**ELSE:  
 Map N104**

**N102** Name AN 1/60 X

**N103** Identification Code Qualifier ID 1/2 X

1 D-U-N-S Number, Dun & Bradstreet  
 9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix  
 10 Department of Defense Activity Address Code (DODAAC)  
 33 Commercial and Government Entity (CAGE)  
 A2 Military Assistance Program Address Code (MAPAC)  
**M4 Department of Defense Routing Identifier Code (RIC)**

**N104** Identification Code AN 2/80 X

5	Entity Relationship Code	ID	2/2	O	IF VG scenario: IF GF03 contract number is present AND N101 = ST (HL03 = W) is a government DoDAAC, then the scenario is Contractor to Government) map 33 for 7D, and BY	N105	Entity Relationship Code	ID	2/2	O	
6	Entity Identifier Code	ID	2/3	O	ELSE: do not map Do not map	N106	Entity Identifier Code	ID	2/3	O	FR Message From TO Message To

<b>N2 Additional Name Information 2/N2/230 0:2</b>						<b>N2 Additional Name Information 2/N2/2300 0:2</b>					
0	Record ID	ID	2/3	M	"N2"	N201	Name	AN	1/60	M	
1	Name	AN	1/60	M		N202	Name	AN	1/60	O	
2	Name	AN	1/60	O							

<b>N3 Address Information 2/N3/240 0:2</b>						<b>N3 Address Information 2/N3/2400 0:2</b>					
0	Record ID	ID	2/3	M	"N3"	N301	Address Information	AN	1/55	M	
1	Address Information	AN	1/55	M		N302	Address Information	AN	1/55	O	
2	Address Information	AN	1/55	O							

<b>N4 Geographic Location 2/N4/250 0:1</b>						<b>N4 Geographic Location 2/N4/2500 0:1</b>					
0	Record ID	ID	2/3	M	"N4"	N401	City Name	AN	2/30	O	
1	City Name	AN	2/30	O		N402	State or Province Code	ID	2/2	O	
2	State or Province Code	ID	2/2	O		N403	Postal Code	ID	3/15	O	
3	Postal Code	ID	3/15	O		N404	Country Code	ID	2/3	O	
4	Country Code	ID	2/3	O							
5	Location Qualifier	ID	1/2	O							
6	Location Identifier	AN	1/30	O							

<b>PER Administrative Communications Contact 2/PER/270 0:3</b>											
0	Record ID	ID	2/3	M	"PER"						
1	Contact Function Code	ID	2/2	M	Hardcode: IC						
2	Name	AN	1/60	O	Hardcode: 856S_SUPER_USER						



3	Communication Number Qualifier	ID	2/2	O	
4	Communication Number	AN	1/80	O	
5	Communication Number Qualifier	ID	2/2	O	
6	Communication Number	AN	1/80	O	
7	Communication Number Qualifier	ID	2/2	O	
8	Communication Number	AN	1/80	O	
9	Contact Inquiry Reference	AN	1/20	O	

## Detail HL03 = S1:s

HL Hierarchical Level LOOP		1:200,000		HL Hierarchical Level LOOP		1:200,000	
<b>HL Hierarchical Level 2/HL/010</b>				<b>HL Hierarchical Level 2/HL/0100</b>			
1:1				1:1			
0	Record ID	ID	2/3	M	"HL"		
1	Hierarchical ID number	AN	1/12	M		HL01	Hierarchical ID number
2	Hierarchical Parent ID Number	AN	1/12	O		HL02	Hierarchical Parent ID Number
3	Hierarchical Level Code	ID	1/2	M	When HL03 = W, Map S S Shipment	HL03	Hierarchical Level Code
4		ID	1/1	O	1 When HL03 = I or P follow. Else 0.	HL04	Hierarchical Child Code
<b>TD1 Carrier Details (Quantity and Weight) 2/TD1/110</b>				<b>TD1 Carrier Details (Quantity and Weight) 2/TD1/1100</b>			
0:20				0:20			
0	Record ID	ID	2/3	M	"TD1"		
1	Weight	R	1/10	M			
2	Unit or Basis of Measurement Code	ID	2/2	M			
9	Volume						
10	Unit or Basis of Measurement Code						
<b>TD5 Carrier Details (Routing Sequence/Transit Time) 2/TD5/120</b>				<b>TD5 Carrier Details (Routing Sequence/Transit Time) 2/TD5/1200</b>			
0:12				0:12			
0	Record ID	ID	2/3	M	"TD5"		
1	Routing Sequence Code	ID	1/1	X	No Restriction List	TD501	
2	Identification Code Qualifier	ID	1/2	X	No Restriction List	TD502	
3	Identification Code	AN	1/4	X		TD503	

4	Transportation Method/Type Code	ID	1/2	O	No Restriction List	TD504	Transportation Method/TypeCode	I D	1/2	O	See DLMS Conversion Guide for Code List						
<b>REF Reference Identification 2/REF/150 0:S</b>						<b>REF Reference Identification 2/REF/1500 0:S</b>											
	At least one of REF02 or REF03 is required.					<p>Not used for WAWF (HL03 = V); used in I, P, W, and FI loops</p> <p>2E Foreign Military Sales Case Number</p> <p>2I Tracking Number</p> <p>60 Account Suffix Code</p> <p>79 Cost Account</p> <p>86 Operation Number</p> <p>91 Cost Element</p> <p>98 Container/Packaging Specification Number</p> <p>9R Job Order Number</p> <p>9X Account Category</p> <p>AGY Agency Dispersing Identifier Code</p> <p>AGZ Agency Accounting Identifier</p> <p>AN Associated Purchase Orders</p> <p>AVT Availability Type</p> <p>BE Business Activity</p> <p>BET Business Event Type Code</p> <p>BLI Budget Line Item</p> <p>BT Batch Number</p> <p>CO Customer Order Number</p> <p>DP Department Number</p> <p>ECA Fund Identifier</p> <p>FG Fund Identification Number</p> <p>JB Job (Project) Number</p> <p>JH Tag</p> <p>LI Line Item Identifier (Seller's)</p> <p>MAT Main Account</p> <p>MDN Hazardous Waste Manifest Document Number</p> <p>PA Price Area Number</p> <p>PWC Preliminary Work Candidate Number</p> <p>Codes are applicable to certain HL loops</p>											
0	Record ID	ID	2/3	M	"REF"							REF01	Reference Identification Qualifier				
1	Reference Identification Qualifier				<p><b>REF01 – Reference Identification Qualifier</b>  <b>Accepted in Shipment Loop (HL03 = S)</b>  <b>If the following REF01 codes are present, map REF segments</b>  <b>ELSE: Do not map REF segments.</b></p> <p><b>08 Carrier Assigned Package Identification Number</b>  <b>0L Reference Qualifier (Used to relate Description of Secondary Transportation Tracking Number to previous REF Segment where REF01 = XY)</b>  <b>ACC Status (used to capture the Draft Indicator)</b>  <b>AW Air Waybill Number</b>  <b>BL Government Bill of Lading</b>  <b>BM Commercial Bill of Lading</b>  <b>BN Sealift Booking Number</b>  <b>CA Cost Allocation Reference – populates SDN Field in iRAPT</b>  <b>CN PRO/Invoice Number</b>  <b>CY Truck Number/Commercial Registration Number</b>  <b>E9 Attachment Code</b>  <b>FI Port Call File Number</b>  <b>IZ Insured Parcel Post Number</b>  <b>K2 Certified Mail Number</b>  <b>K3 Registered Mail Number</b>  <b>KL Contract Reference</b>  <b>LA Serial Shipping Container Code Qualifier</b>  <b>TG Transportation Control Number</b>  <b>TOC Type of Comment</b></p>												

**WY Surface Waybill Number**  
**XC Trailer Number/Cargo Control Number**  
**XY Other Unlisted Transportation Number**  
**ZH Express Mail Number**

Q9 Repair Order Number  
 QR Quality Report Number  
 REB Reimbursable Code  
 SAT Sub Account  
 SBA Sub-Allocation  
 SCC Security Cooperation Customer Code  
 SCI Security Cooperation Implementing Agency  
 SCL Sub Class  
 SE Serial Number  
 SI Shipper's Identifying Number for Shipment (SID)  
 TF Transfer Number  
 TG Transportation Control Number (TCN)  
 TN Transaction Reference Number  
 TT Terminal Code  
 U3 Unique Supplier Identification Number (USIN)  
 WO Work Order Number  
 X9 Internal Control Number  
 XX4 Object Code  
 Codes are applicable to certain HL loops

<b>2</b>	Reference Identification	AN	1/50	M
<b>3</b>	Description	AN	1/80	X
<b>4</b>	Reference Identifier	AN	1/30	O
<b>5</b>	Reference Identification	ID	2/3	O

<b>REF02</b>	Reference Identification	AN	1/50	M
<b>REF03</b>	Description	AN	1/80	X
<b>REF04</b>	Reference Identifier	AN	1/30	O
<b>REF04-01</b>	Reference Identification Qualifier	ID	2/3	O
<b>REF04-02</b>	Reference Identification	AN	1/50	O

See DLMS Notes for usage  
 See DLMS Notes for usage  
 See DLMS Notes for usage  
 See DLMS Notes for usage





LIN Item Identification 2/LIN/020 0:1

LIN Item Identification 2/LIN/0200 0:1

If either LIN04 or LIN05 is present, then the other is required.  
If either LIN06 or LIN07 is present, then the other is required.  
If either LIN08 or LIN09 is present, then the other is required.  
If either LIN10 or LIN11 is present, then the other is required.  
If either LIN12 or LIN13 is present, then the other is required.  
If either LIN14 or LIN15 is present, then the other is required.  
If either LIN16 or LIN17 is present, then the other is required.  
If either LIN18 or LIN19 is present, then the other is required.  
If either LIN20 or LIN21 is present, then the other is required.  
If either LIN22 or LIN23 is present, then the other is required.  
If either LIN24 or LIN25 is present, then the other is required.  
If either LIN26 or LIN27 is present, then the other is required.  
If either LIN28 or LIN29 is present, then the other is required.  
If either LIN30 or LIN31 is present, then the other is required.

0 Record ID ID 2/3 M "LIN"

1	Line Item Number	AN	1/20	O		LIN01	Assigned Identification	AN	1/20	O	
2	See IC for valid codes				All valid IC codes	LIN02	Product/Service ID Qualifier				A1 Plant Equipment Number A2 Department of Defense Identification Code (DoDIC) A4 Subsistence Identification Number FB Form Number FS National Stock Number FT Federal Supply Classification MG Manufacturer's Part Number NN National Item Identification Number SW Stock Number YP Publication Number ZR Service Control Identification ZZ Mutually Defined
		ID	2/2	M				ID	2/2	M	
3		AN	1/48	M		LIN03	Product/Service ID	AN	1/48	M	
4	See IC for valid codes				All valid IC codes	LIN04	Product/Service ID Qualifier				CN Commodity Name FS National Stock Number ZB Commercial and Government Entity (CAGE) Code
		ID	2/2	O				ID	2/2	X	
5		AN	1/48	O		LIN05	Product/Service ID	AN	1/48	X	
6	Product/Service ID Qualifier	ID	2/2	O	All valid IC codes	LIN06	Product/Service ID Qualifier	ID	2/2	X	
7	Product/Service ID	AN	1/48	O		LIN07	Product/Service ID	AN	1/48	X	
8	Product/Service ID Qualifier	ID	2/2	O	All valid IC codes	LIN08	Product/Service ID Qualifier	ID	2/2	X	
9	Product/Service ID	AN	1/48	O		LIN09	Product/Service ID	AN	1/48	X	
10	Product/Service ID Qualifier	ID	2/2	O	All valid IC codes	LIN10	Product/Service ID Qualifier	ID	2/2	X	
11	Product/Service ID	AN	1/48	O		LIN11	Product/Service ID	AN	1/48	X	
12	Product/Service ID Qualifier	ID	2/2	O	All valid IC codes	LIN12	Product/Service ID Qualifier	ID	2/2	X	
13	Product/Service ID	AN	1/48	O		LIN13	Product/Service ID	AN	1/48	X	
14	Product/Service ID Qualifier	ID	2/2	O	All valid IC codes	LIN14	Product/Service ID Qualifier	ID	2/2	X	
15	Product/Service ID	AN	1/48	O		LIN15	Product/Service ID	AN	1/48	X	
16	Product/Service ID Qualifier	ID	2/2	O	All valid IC codes	LIN16	Product/Service ID Qualifier	ID	2/2	X	
17	Product/Service ID	AN	1/48	O		LIN17	Product/Service ID	AN	1/48	X	

18	Product/Service ID Qualifier	ID	2/2	O	All valid IC codes
19	Product/Service ID	AN	1/48	O	
20	Product/Service ID Qualifier	ID	2/2	O	All valid IC codes
21	Product/Service ID	AN	1/48	O	
22	Product/Service ID Qualifier	ID	2/2	O	All valid IC codes
23	Product/Service ID	AN	1/48	O	
24	Product/Service ID Qualifier	ID	2/2	O	All valid IC codes
25	Product/Service ID	AN	1/48	O	
26	Product/Service ID Qualifier	ID	2/2	O	All valid IC codes
27	Product/Service ID	AN	1/48	O	
28	Product/Service ID Qualifier	ID	2/2	O	All valid IC codes
29	Product/Service ID	AN	1/48	O	
30	Product/Service ID Qualifier	ID	2/2	O	All valid IC codes
31	Product/Service ID	AN	1/48	X	

LIN18	Product/Service ID Qualifier	ID	2/2	X	
LIN19	Product/Service ID	AN	1/48	X	
LIN20	Product/Service ID Qualifier	ID	2/2	X	
LIN21	Product/Service ID	AN	1/48	X	
LIN22	Product/Service ID Qualifier	ID	2/2	X	
LIN23	Product/Service ID	AN	1/48	X	
LIN24	Product/Service ID Qualifier	ID	2/2	X	
LIN25	Product/Service ID	AN	1/48	X	
LIN26	Product/Service ID Qualifier	ID	2/2	X	
LIN27	Product/Service ID	AN	1/48	X	
LIN28	Product/Service ID Qualifier	ID	2/2	X	
LIN29	Product/Service ID	AN	1/48	X	
LIN30	Product/Service ID Qualifier	ID	2/2	X	
LIN31	Product/Service ID	AN	1/48	X	

Create a LIN pair (last LIN Pair):  
When Inbound HL03 = I AND  
If no REF01 = U3 is present AND  
only one REF01 = SE segment  
is present.  
Map SN to LIN (Even Number)  
AND map the REF02 (when  
REF01 = SE) to LIN (Odd  
Number).

**SN1 Item Detail (Shipment) 2/SN1/030 0:1**

0	Record ID	ID	2/3	M	"SN1"
1	Assigned Identification	AN		O	
2	Number of Units Shipped	N0		M	
3	Unit or Basis of Measurement Code	AN		M	

**SN1 Item Detail (Shipment) 2/SN1/0300 0:1**

If either SN105 or SN106 is present, then the other is required.

SN101	Assigned Identification	AN	1/20	O	
SN102	Number of Units Shipped	R	1/10	M	
SN103	Unit or Basis of Measurement Code	ID	2/2	M	

Not used  
Whole number; no decimals.  
See DLMS notes for rules.  
Use DLMS Conversion Guide  
for code restrictions. See  
special note on 1149 shipments.

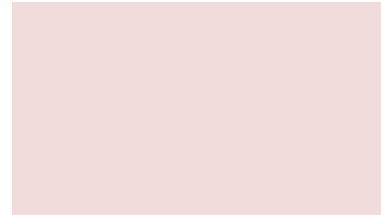


<b>SLN Subline Item Detail 2/SLN/040 0:1000</b>				
0	Record ID	ID	2/3	M "SLN"
1	Assigned Identification	ID	1/20	O
2	Assigned Identification	AN	1/20	O
3	Relationship Code	ID	1/1	O D Delete O Information Only
4	Quantity	AN	1/15	O
5	Unit or Basis of Measurement Code	ID	2/2	O
6	Unit Price	AN	1/17	O
7	Basis of Unit Price Code	ID	2/2	O
8	Relationship Code	AN	1/1	O
9	Product/Service ID Qualifier	ID	2/2	O
10	Product/Service ID	AN	1/48	O
11	Product/Service ID Qualifier	ID	2/2	O
12	Product/Service ID	AN	1/48	O
13	Product/Service ID Qualifier	ID	2/2	O
14	Product/Service ID	AN	1/48	O
15	Product/Service ID Qualifier	ID	2/2	O
16	Product/Service ID	AN	1/48	O
17	Product/Service ID Qualifier	ID	2/2	O
18	Product/Service ID	AN	1/48	O
19	Product/Service ID Qualifier		2/2	O
20	Product/Service ID		1/48	O
21	Product/Service ID Qualifier		2/2	O
22	Product/Service ID		1/48	O
23	Product/Service ID Qualifier		2/2	O
24	Product/Service ID		1/48	O
25	Product/Service ID Qualifier		2/2	O
26	Product/Service ID		1/48	O
27	Product/Service ID Qualifier		2/2	O
28	Product/Service ID		1/48	O

<b>PID Product/Item Description 2/PID/070 0:200</b>				
0	Record ID	ID	2/3	M "PID"
1	Item Description Type	ID	1/1	M
2				
3				
4				
5	Description	AN	1/80	X

REF Reference Identification 2/REF/150 0:S					REF Reference Identification 2/REF/1500 0:S					
0	Record ID	ID	2/3	M	"REF"					
1	Reference Identification Qualifier				<b>REF01 – Reference Identification Qualifier</b> <b>Accepted in Shipment Loop (HL03 = I) If the following REF01 codes are present, map REF segments</b> <b>ELSE: Do not map REF segments.</b> <b>A</b> <b>AEROSPACE ENGINES, AIRBREATHING (MIL-HDBK-1812)</b> <b>B</b> <b>AEROSPACE ENGINES, NON-AIRBREATHING (MIL-HDBK-1812)</b> <b>C</b> <b>AEROSPACE EQUIPMENT AND SUPPORT EQUIPMENT (MIL-HDBK-1812)</b> <b>D</b> <b>ARMY NOMENCLATURE SYSTEM (MIL-STD-1464)</b> <b>A</b> <b>E</b> <b>GROUPS AND UNITS (MIL-HDBK-1812)</b> <b>F</b> <b>JOINT ELECTRONICS TYPE DESIGNATION SYSTEM ("A/N") (MIL-STD-196)</b> <b>E</b> <b>G</b> <b>NAVAL VESSEL REGISTRATION SYSTEM (SECNAV INSTRUCTION 5030.8)</b> <b>H</b> <b>NAVY MARK/MOD NOMENCLATURE SYSTEM (MIL-STD-1661)</b> <b>I</b> <b>PHOTOGRAPHIC EQUIPMENT (MIL-HDBK-1812)</b> <b>J</b> <b>U.S. MILITARY AEROSPACE VEHICLE DESIGNATION - AIRCRAFT (DOD DIRECTIVE 4120.15)</b> <b>K</b> <b>U.S. MILITARY AEROSPACE VEHICLE</b>	<b>REF01</b> Reference Identification Qualifier				<b>For DLMS I loop, use REF and N1 segments to carry IUID data content.</b> <b>2E Foreign Military Sales Case Number</b> <b>2I Tracking Number</b> <b>60 Account Suffix Code</b> <b>79 Cost Account</b> <b>86 Operation Number</b> <b>91 Cost Element</b> <b>98 Container/Packaging Specification Number</b> <b>9R Job Order Number</b> <b>9X Account Category</b> <b>AGY Agency Dispersing Identifier Code</b> <b>AGZ Agency Accounting Identifier</b> <b>AN Associated Purchase Orders</b> <b>AVT Availability Type</b> <b>BE Business Activity</b> <b>BET Business Event Type Code</b> <b>BLI Budget Line Item</b> <b>BT Batch Number</b> <b>CO Customer Order Number</b> <b>DP Department Number</b> <b>ECA Fund Identifier</b> <b>FG Fund Identification Number</b> <b>JB Job (Project) Number</b> <b>JH Tag</b> <b>LI Line Item Identifier (Seller's)</b> <b>PA Price Area Number</b> <b>PWC Preliminary Work Candidate Number</b>
		ID	2/3	M			ID	2/3	M	

**DESIGNATION -  
MISSILES, ROCKETS,  
PROBES AND  
SATELLITES (DOD  
DIRECTIVE 4120.15)XY  
Other Unlisted Type of  
Reference Number**



Q9 Repair Order Number  
 QR Quality Report Number  
 REB Reimbursable Code  
 SAT Sub Account  
 SBA Sub-Allocation  
 SCC Security Cooperation  
 Customer Code  
 SCI Security Cooperation  
 Implementing Agency  
 SCL Sub Class  
 SE Serial Number  
 SI Shipper's Identifying  
 Number for Shipment (SID)  
 TF Transfer Number  
 TG Transportation Control  
 Number (TCN)  
 TN Transaction Reference  
 Number  
 TT Terminal Code  
 U3 Unique Supplier  
 Identification Number (USIN)  
 WO Work Order Number  
 X9 Internal Control Number  
 XX4 Object Code

<b>2</b>	Reference Identification	AN	1/50	M
<b>3</b>	Description	AN	1/80	X
<b>4</b>	Reference Identifier	AN	1/30	O
<b>5</b>	Reference Identification Qualifier	ID	2/3	O
<b>6</b>	Reference Identification	AN	1/50	O
<b>7</b>	Reference Identification Qualifier	ID	2/3	O

<b>REF02</b>	Reference Identification	AN	1/50	M
<b>REF03</b>	Description	AN	1/80	X
<b>REF04</b>	Reference Identifier	AN	1/30	O
<b>REF04-01</b>	Reference Identification Qualifier	ID	2/3	O
<b>REF04-02</b>	Reference Identification	AN	1/50	O
<b>REF04-03</b>	Reference Identification Qualifier	ID	2/3	O
<b>REF04-04</b>	Reference Identification	AN	1/50	O

<b>8</b>	Reference Identification	AN	1/50	O	<b>REF04-05</b>	Reference Identification Qualifier	ID	2/3	O
<b>9</b>	Reference Identification Qualifier	ID	2/3	O	<b>REF04-06</b>	Reference Identification	AN	1/50	O

<b>CLD Loop</b>										<b>0:200</b>																									
<b>CLD Load Detail 2/CLD/170</b>					<b>0:1</b>					<b>CLD Load Detail 2/CLD/1700</b>					<b>0:1</b>																				
<b>0</b>	Record ID	ID	2/3	M	"CLD"	<b>CLD01</b>	Number of Loads	N0	1/5	M	<b>CLD02</b>	Number of Units Shipped	R	1/10	M	<b>CLD03</b>	Packaging Code	AN	3/5	O	<b>CLD04</b>	Size	R	1/8	X	<b>CLD05</b>	Unit or Basis of Measurement Code	ID	2/2	O					
<b>1</b>	Number of Loads	N0	1/5	M																															
<b>2</b>	Number of Units Shipped	R	1/10	M																															
<b>3</b>	Size	R	1/8	O																															
<b>4</b>	Unit or Basis of Measurement Code	ID	2/2	O																															
<b>REF Reference Identification 2/REF/180</b>					<b>0:200</b>					<b>REF Reference Identification 2/REF/1800</b>					<b>0:200</b>																				
<b>0</b>	Record ID	ID	2/3	M	"REF"	<b>REF01</b>	Reference Identification Qualifier	ID	2/3	M	<b>REF02</b>	Reference Identification	AN	1/30	X	<b>REF03</b>	Description	AN	1/80	X	<b>REF04</b>	Reference Identification Qualifier	ID	2/3	M	<b>C04001</b>	Reference Identification	ID	2/3	M	<b>REF04</b>	Reference Identification	AN	1/30	M
<b>1</b>	Reference Identification Qualifier	ID	2/3	M																															
<b>2</b>	Reference Identification	AN	1/30	X																															
<b>3</b>	Reference Identification Qualifier	ID	2/3	M																															
<b>4</b>	Reference Identification	AN	1/30	M																															
										<b>DTP Date or Time Period 2/DTP/1850</b>					<b>0:1</b>																				

# Detail HL03 = D UID Loop 0:S

HL Hierarchical Level LOOP					1:200,000	HL Hierarchical Level LOOP					1:200,000
LOOP ID: HL – may loop 1 - 200,000 times											
<b>HL</b>	<b>Hierarchical Level</b>	<b>2/HL/010</b>			<b>1:1</b>	<b>HL</b>	<b>Hierarchical Level</b>	<b>2/HL/010</b>			<b>1:1</b>
<b>0</b>		ID	2/3	M	"HL"						
<b>1</b>	Hierarchical ID number	AN	1/12	M		<b>HL01</b>	Hierarchical ID number	AN	1/12	M	
<b>2</b>	Hierarchical Parent ID Number	AN	1/12	O		<b>HL02</b>	Hierarchical Parent ID Number	AN	1/12	X	
<b>3</b>	Hierarchical Level Code	ID	1/2	M	<b>D Product Description</b>	<b>HL03</b>	Hierarchical Level Code	ID	1/2	X	<b>I Item</b>
<b>4</b>	Hierarchical Child Code	ID	1/1	O		<b>HL04</b>	Hierarchical Child Code	ID	1/1	M	See IC for valid codes.
<b>SLN Subline Item Detail 2/SLN/040 0:1000</b>						<b>SLN Subline Item Detail 2/SLN/040 0:1000</b>					
						<p>NOTE: There may be 1 instance of SLN per LIN Loop to specify Subline Item detail, (where HL03 = I).</p> <p>The SLN Segment can also be used to report UID information when the HL Segment is used (where HL03 = D) and to report GFP Current Part Number and Part Number Cost (where HL03 = J), thus always reported in the UID loop.</p> <p>Programming NOTE: SLN09 code list has been expanded. 856 IC is not restrictive for the sequence of SLN09 - SLN10 pairs that can repeat several iterations. The WAWF format is specific about exactly what sequence and what position these codes may appear in. Therefore, the WAWF format is very "fixed format" like.</p>					
<b>0</b>	Record ID	ID	2/3	M	SLN	<b>SLN01</b>	Assigned Identification	ID	1/20	M	A/N counter. Always '1' in the UID loop.
<b>1</b>	Assigned Identification	ID	1/20	O	<b>Hardcode 1</b>	<b>SLN02</b>	Assigned Identification	AN	1/20	O	Not Used
<b>2</b>	Assigned Identification	AN	1/20	O		<b>SLN03</b>	Relationship Code	ID	1/1	O	See IC for valid codes. Use code 'O' in UID loop.
<b>3</b>	Relationship Code	ID	1/1	O	<b>Hardcode O</b>	<b>SLN04</b>	Quantity	AN	1/15	X	Always '1' in UID loop.
<b>4</b>	Quantity	AN	1/15	O	<b>Hardcode 1</b>	<b>SLN05</b>	Unit or Basis of Measurement Code	ID	2/2	X	See IC for valid codes. Always 'EA' in UID loop.
<b>5</b>	Unit or Basis of Measurement Code	ID	2/2	O	<b>Hardcode EA</b>	<b>C00101</b>	Measurement Code				
<b>6</b>	Unit Price	AN	1/17	O		<b>SLN06</b>	Unit Price	AN	1/17	X	In UID loop, this indicates "acquisition cost." When used in other loops, this indicates "unit price/value." When used in the HL03 = 'J' or 'F' (whichever is resolved) loop, then place 'MG' in SLN09 and Current Part Number

in SLN10

<b>7</b>	Basis of Unit Price Code	ID	2/2	O
<b>8</b>	Relationship Code	AN	1/1	O
<b>9</b>	Product/Service ID Qualifier	ID	2/2	O

<b>SLN07</b>	Basis of Unit Price Code	ID	2/2	O	See IC for valid codes. Not applicable in UID loop. Additional code: NS - Not Separately Priced.
<b>SLN08</b>	Relationship Code	AN	1/1	O	Not Used
<b>SLN09</b>	Product/Service ID Qualifier	ID	2/2	X	A8 Exhibit Line Item Number AK Refined Product Code B8 Batch Number CG Commodity Grouping CH Country of Origin Code CL Color CN Commodity Name EF Exhibit Identifier F7 End-Item Description F8 Next Higher Used Assembly FS National Stock Number FT Federal Supply Classification IN Buyer's Item Number KA Engineering Data List KB Data Category Code KD Replacement National Stock Number KF Item Type Number KG Time Compliant Technical Order KI Cognizance Symbol KJ Material Control Code KK Special Material Identification Code KL Item Management Code KM Shelf-Life Code KN Shelf-Life Action Code LT Lot Number MF Manufacturer MG Manufacturer's Part Number MN Model Number

10	Product/Service ID	AN	1/48	O
11	Product/Service ID Qualifier	ID	2/2	O
12	Product/Service ID	AN	1/48	O
13	Product/Service ID Qualifier	ID	2/2	O
14	Product/Service ID	AN	1/48	O
15	Product/Service ID Qualifier	ID	2/2	O
16	Product/Service ID	AN	1/48	O
17	Product/Service ID Qualifier	ID	2/2	O
18	Product/Service ID	AN	1/48	O
19	Product/Service ID Qualifier		2/2	O
20	Product/Service ID		1/48	O
21	Product/Service ID		2/2	O

**Hardcode C7**

**Hardcode M**

<b>SLN10</b>	Product/Service ID	AN	1/48	X
<b>SLN11</b>	Product/Service ID Qualifier	ID	2/2	X
<b>SLN12</b>	Product/Service ID	AN	1/48	X
<b>SLN13</b>	Product/Service ID Qualifier	ID	2/2	X
<b>SLN14</b>	Product/Service ID	AN	1/48	X
<b>SLN15</b>	Product/Service ID Qualifier	ID	2/2	X
<b>SLN16</b>	Product/Service ID	AN	1/48	X
<b>SLN17</b>	Product/Service ID Qualifier	ID	2/2	X
<b>SLN18</b>	Product/Service ID	AN	1/48	X
<b>SLN19</b>	Product/Service ID Qualifier		2/2	X
<b>SLN20</b>	Product/Service ID		1/48	X
<b>SLN21</b>	Product/Service		2/2	X

N1 National Drug Code in 4-4-2 Format  
N2 National Drug Code in 5-3-2 Format  
N3 National Drug Code in 5-4-1 Format  
N4 National Drug Code in 5-4-2 Format  
ND National Drug Code (NDC)  
PD Part Number Description  
PU Part Reference Number  
RC Returnable Container Number  
SN Serial Number  
ST Style Number  
SV Service Rendered  
SW Stock Number  
SZ Vendor Alphanumeric Size Code (NRMA)  
TP Product Type Code  
UK U.P.C./EAN Shipping Container Code (1-2-5-5-1)  
VI Vary Item Product Number  
VP Vendor's (Seller's) Part Number  
XZ Contractor Establishment Code  
ZB Commercial and Government Entity (CAGE) Code

For GFP transfer, add the code 'C7' which is used here when GFP Category Code  
E= equipment. M= Material

22	Qualifier Product/Service ID	1/48	O		SLN22	ID Qualifier Product/Service ID	1/48	X	
23	Product/Service ID Qualifier	2/2	O		SLN23	Product/Service ID Qualifier	2/2	X	
24	Product/Service ID	1/48	O		SLN24	Product/Service ID	1/48	X	
25	Product/Service ID Qualifier	2/2	O	Hardcode TP	SLN25	Product/Service ID Qualifier	2/2	X	UID: Enter "TP" Product Type Code for reporting 2DCOMPLIANT indicator Y - Yes N - No
26	Product/Service ID	1/48	O	Hardcode N	SLN26	Product/Service ID	1/48	X	
27	Product/Service ID Qualifier	2/2	O		SLN27	Product/Service ID Qualifier	2/2	X	
28	Product/Service ID	1/48	O		SLN28	Product/Service ID	1/48	X	

REF	Reference Identification	2/REF/150	0:S		REF	Reference Identification	2/REF/1500	0:S	
0	Record ID	ID 2/3	M	REF					
1	Reference Identification Qualifier	ID 2/3	M	<b>REF01 – Reference Identification Qualifier Accepted in Shipment Loop (HL03 =D)</b>  <b>If the following REF01 codes are present, map REF segments ELSE: Do not map REF segments.</b>  <b>U3 UID Value Note: Mandatory for all scenarios except "GG". R9 Rejection Number – (For iRAPT, used to Reject an individual UII on a GFP Receipt) DD Document Identification Code</b>	REF01	Reference Identification Qualifier	ID 2/3	M	<b>If no REF01 = U3, and only one REF01 = SE, map REF01 = SE segment. If multiple REF01 = SE, do not map any REF01 = SE segments Map to LIN in I loop as LIN01 = SN (even # LIN) REF02 map to LIN pair.</b>
2	Reference Identification	AN 1/30	O	IF REF01 = U3, Do not map	REF02	Reference Identification	AN 1/30	X	



<b>3</b>	Description	AN	1/80	O	<b>IF REF01 = U3, Map REF02</b>	<b>REF03</b>	Description	AN	1/80	X	UID in HL UID Loop usage
<b>4</b>	Reference Identification Qualifier	ID	2/3		No Restrictions	<b>REF04 C0400 1</b>	Reference Identification Qualifier	ID	2/3	M	No Restrictions Most frequent use should be 'BT' = batch number, 'LT' = lot number, or 'PC' = production code. W9 6O (Letter O, not the number zero)
<b>5</b>	Reference Identification	AN	1/30			<b>REF04 C0400 2</b>	Reference Identification	AN	1/30	M	W8, W9 Vendor supplied identification number corresponding to C4001. Allow "Yes". "W9:Yes" entry, when HL03 = P (Pack), and REF01 = U3. W9:Yes represents the optional Mark Indicator, within the Pack Data, at the UII level. Allow numeric counter.
<b>6</b>	Reference Identification Qualifier	ID	2/3	O	No Restrictions	<b>REF04 C0400 3</b>	Reference Identification Qualifier	ID	2/3	X	No Restrictions W8, W9 For WAWF the SLN segment will be used by vendors to send batch/lot information as well as the 2DCOMPLIANT, Y for Yes and N for No.
<b>7</b>	Reference Identification	AN	1/30	O		<b>REF04 C0400 4</b>	Reference Identification	AN	1/30	X	
<b>8</b>	Reference Identification Qualifier	ID	2/3		No Restrictions	<b>REF04 C0400 5</b>	Reference Identification Qualifier	ID	2/3	X	No Restrictions
<b>9</b>	Reference Identification	AN	1/30			<b>REF04 C0400 6</b>	Reference Identification	AN	1/30	X	

## Detail HL03 = P 0:s

HL Hierarchical Level LOOP 1:200,000						HL Hierarchical Level LOOP 1:200,000					
HL Hierarchical Level 2/HL/010 1:1						HL Hierarchical Level 2/HL/010 1:1					
<b>0</b>	Record ID	ID	2/3	M	"HL"						
<b>1</b>	Hierarchical ID number	AN	1/12	M		<b>HL01</b>	Hierarchical ID number	AN	1/12	M	
<b>2</b>	Hierarchical Parent ID Number	AN	1/12	O		<b>HL02</b>	Hierarchical Parent ID Number	AN	1/12	O	
<b>3</b>	Hierarchical Level Code	ID	1/2	M	<b>P' Pack Loop</b>	<b>HL03</b>	Hierarchical Level Code	ID	1/2	M	<b>P Pack</b>

**4** ID 1/1 O 1 When HL03 = P loop contains a child. Else 0.

**HL04** Hierarchical Child Code ID 1/1 M

**REF Reference Identification 2/REF/150 0:S**

0 Record ID ID 2/3 M "REF"

1 Reference Identification Qualifier

**Accepted in Pack Loop (HL03 = P)**  
**U3 UID Value**  
**JH Tag (RFID Tag Data)**

**If the following REF01 codes are present, map REF segments**  
**ELSE: Do not map REF segments.**

**U3 UID Value**  
**JH Tag (RFID Tag Data)**

ID 2/3 M

**REF Reference Identification 2/REF/1500 0:S**

At least one of REF02 or REF03 is required.

**REF01** Reference Identification Qualifier

**Only JH is used for pRFID information**

**2E Foreign Military Sales Case Number**  
**2I Tracking Number**  
**60 Account Suffix Code**  
**79 Cost Account**  
**86 Operation Number**  
**91 Cost Element**  
**98 Container/Packaging Specification Number**  
**9R Job Order Number**  
**9X Account Category**  
**AGY Agency Dispersing Identifier Code**  
**AGZ Agency Accounting Identifier**  
**AN Associated Purchase Orders**  
**AVT Availability Type**  
**BE Business Activity**  
**BET Business Event Type Code**  
**BLI Budget Line Item**  
**BT Batch Number**  
**CO Customer Order Number**  
**DP Department Number**  
**ECA Fund Identifier**  
**FG Fund Identification Number**  
**JB Job (Project) Number**  
**JH Tag**  
**LI Line Item Identifier (Seller's)**  
**PA Price Area Number**  
**PWC Preliminary Work Candidate Number**

ID 2/3 M

**Q9 Repair Order Number**  
**QR Quality Report Number**  
**REB Reimbursable Code**  
**SAT Sub Account**  
**SBA Sub-Allocation**  
**SCC Security Cooperation**  
**Customer Code**  
**SCI Security Cooperation**  
**Implementing Agency**  
**SCL Sub Class**  
**SE Serial Number**  
**SI Shipper's Identifying Number**  
**for Shipment (SID)**  
**TF Transfer Number**  
**TG Transportation Control**  
**Number (TCN)**  
**TN Transaction Reference**  
**Number**  
**TT Terminal Code**  
**U3 Unique Supplier Identification**  
**Number (USIN)**  
**WO Work Order Number**  
**X9 Internal Control Number**  
**XX4 Object Code**

<b>2</b>	Reference Identification	AN	1/50	M	<b>IF REF01 = U3 or JH,          Do not map REF02 to REF02          IF REF01 = U3 or JH,          Map REF02</b>
<b>3</b>	Description	AN	1/80	X	
<b>4</b>	Reference Identifier	AN	1/30	O	
<b>5</b>	Reference Identification Qualifier	ID	2/3	O	
<b>6</b>	Reference Identification	AN	1/50	O	
<b>7</b>	Reference Identification Qualifier	ID	2/3	O	
<b>8</b>	Reference Identification	AN	1/50	O	
<b>9</b>	Reference Identification Qualifier	ID	2/3	O	

<b>REF02</b>	Reference Identification	AN	1/50	M
<b>REF03</b>	Description	AN	1/80	X
<b>REF04</b>	Reference Identifier	AN	1/30	O
<b>REF04-01</b>	Reference Identification Qualifier	ID	2/3	O
<b>REF04-02</b>	Reference Identification	AN	1/50	O
<b>REF04-03</b>	Reference Identification Qualifier	ID	2/3	O
<b>REF04-04</b>	Reference Identification	AN	1/50	O
<b>REF04-05</b>	Reference Identification Qualifier	ID	2/3	O
<b>REF04-06</b>	Reference Identification	AN	1/50	O

<b>SDQ Destination Quantity 2/SDQ/290</b>		<b>0:50</b>		
0	Record ID	ID	2/3	M "SDQ"
1	Unit or Basis for Measurement Code	ID	2/2	M
2	Identification Code Qualifier	ID	1/2	O
3	Identification Code	AN	2/80	M
4	Quantity	R	1/15	M
5	Identification Code	AN	2/80	O
6	Quantity	R	1/15	O
7	Identification Code	AN	2/80	O
8	Quantity	R	1/15	O
9	Identification Code	AN	2/80	O
10	Quantity	R	1/15	O
11	Identification Code	AN	2/80	O
12	Quantity	R	1/15	O
13	Identification Code	AN	2/80	O
14	Quantity	R	1/15	O
15	Identification Code	AN	2/80	O
16	Quantity	R	1/15	O
17	Identification Code	AN	2/80	O
18	Quantity	R	1/15	O
19	Identification Code	AN	2/80	O
20	Quantity	R	1/15	O
21	Identification Code	AN	2/80	O
22	Quantity	R	1/15	O
23	Location Identifier	AN	1/30	O

<b>Summary</b>				
<b>SE Transaction Set Trailer 1/SE/510</b>		<b>1:1</b>		
0	Record ID	ID	2/3	M "SE"
1	Number of Included Segments	NO	1/10	
2	Transaction Set Control Number	AN	4/9	
<b>SE Transaction Set Trailer 2/SE/0200</b>		<b>1:1</b>		
<b>SE01</b>	Number of Included Segments	NO	1/10	M
<b>SE02</b>	Transaction Set Control Number	AN	4/9	M Same number sited in ST02 must be cited
<b>GE01</b>	Number of Transaction Sets Included			
<b>GE02</b>	Group Control Number			Copy from GS06
<b>IEA01</b>	Number of Included Functional Groups			
<b>IEA02</b>	Interchange Control Number			Copy from ISA13

# GV Government to Contractor

## WAWF-856S Logical Map 856S Ship Notice/Manifest to WAWF GFP Ship Notice/Manifest

### WAWF 5.8 Production

#### #REF!

**856 GFP 4010**  
**WAWF UDF**



**856S 4030 X12**

X12s and UDFs may use the following special characters as data, "-" "("  
")" "/" ":" ";"  
as long as they do not use the same character as a composite delimiter.

#### X2U map (Backend Map)

**Logic to Identify  
Transaction type**

**GV  
Government  
to Contractor**

**IF GF03 is present  
And  
N101 = ST where HL03 = W  
And  
N103 = 10  
And  
The left one or two characters of  
N104 are in the  
Edit:/gex/etc/map/WAWF-  
856S\_Contractor\_dodaac.tbl lookup  
table**

#### Route Trim/Cancel:

1/BSN/020

**BSN02: Route Trim/Cancel IF Inbound BSN02 = RR.**

**BSN02: Fail transaction if mapped BSN02 is other than 14 or 15 characters long.**

**BSN02 logic: When HL03 = W, and 2/REF/1500, REF01 = TN, map REF02 + REF0402 (when REF0401 = W8) If REF0401 = W8 is not present, map REF02**

#### Lookup Tables:

**Edit:/gex/etc/map/WAWF-  
856S\_ric\_dodaac.tbl**

**Edit:/gex/etc/map/WAWF-856S\_Contractor\_dodaac.tbl**

**Require DLA RIC  
to DoDAAC table**

WAWF UDF 856GFP Import					856S X12						
UDF Field	Description	Type	Min/Max	USE	Mapping Logic	856 Field	Description	Type	Min/Max	USE	Content

WAWF Header Segment						ISA/GS Wrapper					
Each extract will have a Header Segment. There will be one instance of the WAWF Header Segment per transaction, prior to the ST Segment.											
0	Record ID	ID	4/4	M	"WAWF"	ISA01	Authorization Information Qualifier	ID	2/2	M	
						ISA02	Authorization Information	AN	10/10	M	
						ISA03	Security Information Qualifier	ID	2/2	M	
						ISA04	Security Information	AN	10/10	M	
						ISA05	Interchange ID Qualifier	ID	2/2	M	
						ISA06	Interchange Sender ID	AN	15/15	M	
						ISA07	Interchange ID Qualifier	ID	2/2	M	
						ISA08	Interchange Receiver ID	AN	15/15	M	
						ISA09	Date	DT	6/6	M	
						ISA10	Time	TM	4/4	M	
						ISA11	Interchange Control Standards Identifier	ID	1/1	M	
						ISA12	Version Number	ID	5/5	M	
						ISA13	Interchange Control number	No	9/9	M	
						ISA14	Acknowledgment	ID	1/1	M	
2	Production/Test Indicator	ID	1/1	M	"T" Test "P" Production	ISA15	Test Indicator	ID	1/1	M	
						ISA16	Component Element Separator	AN	1/1	M	
						GS01	Functional	ID	2/2	M	

<b>1</b>	Receiving Activity Code	AN	2/1 5	M	
<b>GS02</b>	Identifier Code Application Sender's Code	AN	2/15	M	
<b>GS03</b>	Application Receiver's Code	AN	2/15	M	
<b>GS04</b>	Date	DT	6/6	M	
<b>GS05</b>	Time	TM	4/8	M	
<b>GS06</b>	Group Control Number	No	1/9	M	
<b>GS07</b>	Responsible Agency Code	ID	1/2	M	
<b>GS08</b>	Version / Release / Industry Identifier Code	AN	1/12	M	

## Heading

<b>ST Transaction Set Header 1/ST/010 1:1</b>						<b>ST Transaction Set Header 1/ST/0100 1:1</b>					
<b>0</b>	Record ID	ID	2/3	M	"ST"						
<b>1</b>	Transaction Set Identifier Code	ID	3/3	M	856'	<b>ST01</b>	Transaction Set Identifier Code	ID	3/3	M	"856"
<b>2</b>	Transaction Set Control Number	NO	4/9	M		<b>ST02</b>	Transaction Set Control Number	NO	4/9	M	
<b>3</b>	Implementation Convention Reference	AN	1/3 5	O	Not Used	<b>ST03</b>	Implementation Convention Reference	AN	1/35	O	

<b>BSN Beginning Segment for Ship Notice 1/BSN/020 1:1</b>						<b>BSN Beginning Segment for Ship Notice 1/BSN/0200 1:1</b>					
<b>0</b>	Record ID	ID	2/3	M		If BSN07 is present, then BSN06 is required.					
<b>1</b>	Transaction Set Purpose Code	ID	2/2	M	Hardcode: '00' Original	<b>BSN01</b>	Transaction Set Purpose Code	ID	2/2	M	00 Original 77 Simulation Exercise ZZ Mutually Defined

2	Shipment Identification Shipment Number				Route Trim transaction if inbound BSN02 = RR  ELSE: When HL03 = W, and 2/REF/1500, REF01 = TN, map REF02 + REF0402 (when REF0401 = W8)  If REF0401 = W8 is not present, map REF02  Fail transaction if mapped BSN02 is other than 14 or 15 characters long.
		AN	2/3 0	M	
3	Date – Date transaction set is created	DT	8/8	M	CCYYMMDD
4	Time – Time expressed in 24-hour clock – use Universal Time Coordinate	TM	4/8	M	IF the Short is present write that to the WAWF UDF field IF short is not present write the Long field.
5	Hierarchical Structure Code –	ID	4/4	O	Not Used
6	Transaction Type Code	ID	2/2	O	If BSN06 = AS map TS  ELSE Route Trim
7	Status Reason Code	ID	3/3	O	Hardcode 048
<b>BSN02</b>	Shipment Identification				ZZ Supply Shipment Status RR Replacement Supply Shipment Status Transaction Note: 856S ZZ with BSN06=AS indicates supply shipment status. RR indicates shipment status was updated with revised information (e.g, pRFID, BOL, shipment pickup date). BSN03 is the date the shipment transaction set is created. BSN04 is the time the shipment transaction set is created. Time expressed in 24- hour clock – use Universal Time Coordinate
		AN	2/30	M	
<b>BSN03</b>	Date – Transmission Date	DT	8/8	M	
<b>BSN04</b>	Time	TM	4/8	M	
<b>BSN05</b>	Hierarchical Structure Code	ID	4/4	O	Not Used
<b>BSN06</b>	Transaction Type Code	ID	2/2	O	AS Supply Shipment Status NC Material Release Order Forced Closure 014 Non-MILS Shipment Status (e.g., DD 1149) 048 IA Rewarehousing/Tra nsship Shipment Status 061 CCP Shipment Status (pRFID) 091
<b>BSN07</b>	Status Reason Code	ID	3/3	X	



Transship/Crossdock Status (pRFID)  
 A40 Updated Status (BSN02=RR)  
 IV2 LRO Status  
 WTP Navy CAV Status (POS)

DTM Date/Time Reference 1/DTM/040 0:10					
0	Record ID	ID	2/3	M	"DTM"
1	Date/Time Qualifier				007 Effective 050 Received 282 Previous Report 517 Inspected
		ID	3/3	M	
2	Date	DT	8/8	M	CCYYMMDD
3	Time	TM	4/8	O	HHMMSS

## Detail HL03 = V 1:1

HL Hierarchical Level LOOP 1:200,000						HL Hierarchical Level LOOP 1:200,000					
<b>HL Hierarchical Level 2/HL/010 1:1</b>						<b>HL Hierarchical Level 2/HL/0100 1:1</b>					
0	Record ID	ID	2/3	M	"HL"	HLO	Hierarchical ID	A	1/1	M	
1	Hierarchical ID number	A N	1/1 2	M		1	number	N	2	M	
2	Hierarchical Parent ID Number	A N	1/1 2	O		HLO	Hierarchical Parent ID Number	A N	1/1 2	O	
3	Hierarchical Level Code	ID	1/2	M	V' Address Loop Map HL03 = W loop N1 data to V loop	HLO	Hierarchical Level Code	ID	1/2	M	V Address Information (Transaction Originator)
4	Hierarchical Child Code	ID	1/1	M	1' Child. HL03 = V loops will have child S loop(s)	HLO	Hierarchical Child Code	ID	1/1	M	

N1 Loop 0:200

GV Government to Contractor Mapping Logic

IF GF03 is present  
And  
N101 = ST where HL03 = W  
And  
N103 = 10  
And  
The left one or two characters of N104 are in the  
Edit:/gex/etc/map/WAWF-856S\_Contractor\_dodaac.tbl  
lookup table

N1 Loop 0:200

N1 Name 2/N1/220 0:1

0 Record ID ID 2/3 M "N1"

1 Entity Identifier Code

IF HL03 = W AND N101 = SB  
Create N1 segment where N101 = PG Prime Contractor (Shipper)  
  
IF HL03 = V or W AND N101 = Z4  
Create N1 segment where N101 = PG Prime Contractor (Shipper)  
  
IF HL03 = W AND N101 = ST  
Create N1 segment where N101 = AQ Account of Destination Party (Receiver)  
  
IF HL03 = W AND N101 = BS  
Create N1 segment where N101 = AQ Account of Destination Party (Receiver)  
  
IF HL03 = W AND N101 = DA  
Create N1 segment where N101 = AQ Account of Destination Party (Receiver)  
  
IF HL03 = W AND N101 = RN  
Create N1 segment where N101 = AQ Account of Destination Party (Receiver)  
  
IF HL03 = W AND N101 = SB

ID 2/3 M

N1 Name 2/N1/2200 0:1

N101 Entity Identifier Code

ID 2/3 M

Used in I, V, W, and FI loops  
BS Bill and Ship To W loop  
BT Bill-to-Party W Loop  
CA Carrier W Loop  
CS Consolidator V Loop  
DA Delivery Address W Loop  
GP Gateway Provider V Loop  
KK Registering Party W Loop  
KO Plant Clearance Officer  
OB Ordered By W Loop  
RN Repair or Refurbish Location V or W Loop  
SB Storage Area W Loop  
ST Ship To W Loop  
XN  
Planning/Maintenance Organization W Loop

Create N1 segment where N101 =  
7D Contracting Officer  
Representative (ACO DoDAAC)

IF HL03 = V or W AND N101 = Z4  
Create N1 segment where N101 =  
7D Contracting Officer  
Representative (ACO DoDAAC)

IF HL03 = W AND N101 = OB  
Create N1 segment where N101 =  
BY Buying Party (PCO DoDAAC)

IF HL03 = V AND N101 = CS  
Create N1 segment where N101 =  
SF Ship From

IF HL03 = W AND N101 = DA  
Create N1 segment where N101 =  
ST Ship To

IF HL03 = W AND N101 = ST  
Create N1 segment where N101 =  
ST Ship To

IF HL03 = V or W AND N101 = RN  
Create N1 segment where N101 =  
ST Ship To

IF HL03 = W AND N101 = BS  
Create N1 segment where N101 =  
ST Ship To

Z1 Party to Receive  
Status W Loop  
Z4 Owing Inventory  
Control Point  
V or W Loop  
Z5 Management  
Control Activity V  
or W Loop  
Z7 Mark-for Party  
W Loop  
ZB Party to Receive  
Credit V or W  
Loop

2 Name AN 1/60 X

N102 Name AN /60 X

3	Identification Code Qualifier	ID	1/2	X	<p><b>If 1, 9, or 10 are present, map X12 to UDF.</b>  <b>If M4, map as 10.</b></p> <p>1 D-U-N-S Number, Dun &amp; Bradstreet  9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix  10 Department of Defense Activity Address Code (DODAAC)  33 Commercial and Government Entity (CAGE)  A2 Military Assistance Program Address Code (MAPAC)</p>	N103	Identification Code Qualifier	ID	1/2	X	<p>1 D-U-N-S Number, Dun &amp; Bradstreet  9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix  10 Department of Defense Activity Address Code (DODAAC)  33 Commercial and Government Entity (CAGE)  A2 Military Assistance Program Address Code (MAPAC)  <b>M4 Department of Defense Routing Identifier Code (RIC)</b></p>
4	Identification Code	AN	2/80	X	<p><b>If N103 = M4, do lookup on RIC value to get the DODAAC using the 856S_ric_dodaac.tbl, then map the DODAAC value.</b></p> <p><b>If table lookup fails to find the incoming RIC, map "999999"</b></p>	N104	Identification Code	AN	2/80	X	
5	Entity Relationship Code	ID	2/2	O	<p><b>ELSE:</b>  <b>Map N104</b>  <b>Do not map</b></p>	N105	Entity Relationship Code	ID	2/2	O	
6	Entity Identifier Code	ID	2/3	O	<p><b>Do not map</b></p>	N106	Entity Identifier Code	ID	2/3	O	<p><b>FR Message From</b>  <b>TO Message To</b></p>

N2 Additional Name Information 2/N2/230		0:2	
0	Record ID	ID 2/3	M "N2"
1	Name	AN 1/60	M
2	Name	AN 1/60	O

N2 Additional Name Information 2/N2/2300		0:2	
N201	Name	AN 1/60	M
N202	Name	AN 1/60	O

N3 Address Information 2/N3/240					0:2	N3 Address Information 2/N3/2400					0:2
0	Record ID	ID	2/3	M	"N3"	N301	Address Information	AN	1/55	M	
1	Address Information	AN	1/55	M		N302	Address Information	AN	1/55	O	
2	Address Information	AN	1/55	O							

N4 Geographic Location 2/N4/250					0:1	N4 Geographic Location 2/N4/2500					0:1
0	Record ID	ID	2/3	M	"N4"	N401	City Name	AN	2/30	O	
1	City Name	AN	2/30	O		N402	State or Province Code	ID	2/2	O	
2	State or Province Code	ID	2/2	O		N403	Postal Code	ID	3/15	O	
3	Postal Code	ID	3/15	O		N404	Country Code	ID	2/3	O	
4	Country Code	ID	2/3	O							
5	Location Qualifier	ID	1/2	O							
6	Location Identifier	AN	1/30	O							

PER Administrative Communications Contact 2/PER/270					0:3						
0	Record ID	ID	2/3	M	"PER"						
1	Contact Function Code	ID	2/2	M	Hardcode: IC						
2	Name	AN	1/60	O	Hardcode: 856S_SUPER_USER						
3	Communication Number Qualifier	ID	2/2	O							
4	Communication Number	AN	1/80	O							
5	Communication Number Qualifier	ID	2/2	O							
6	Communication Number	AN	1/80	O							
7	Communication Number Qualifier	ID	2/2	O							
8	Communication Number	AN	1/80	O							
9	Contact Inquiry Reference	AN	1/20	O							

# Detail HL03 = S :s

HL Hierarchical Level LOOP					1:200,000						
<b>HL Hierarchical Level 2/HL/010</b>					<b>1:1</b>	<b>HL Hierarchical Level 2/HL/0100</b>					<b>1:1</b>
0	Record ID	ID	2/3	M	"HL"						
1	Hierarchical ID number	A	1/1	M		HL01	Hierarchical ID number	AN	1/12	M	
2	Hierarchical Parent ID Number	A	1/1	O		HL02	Hierarchical Parent ID Number	AN	1/12	O	
3	Hierarchical Level Code				When HL03 = W, Map S S Shipment	HL03	Hierarchical Level Code				W Transaction Reference Number
		ID	1/2	M				ID	1/2	M	
4					1 When HL03 = I or P follow. Else 0.	HL04	Hierarchical Child Code	ID	1/1	M	
		ID	1/1	O							

TD1 Carrier Details (Quantity and Weight) 2/TD1/110					0:20	TD1 Carrier Details (Quantity and Weight) 2/TD1/1100					0:20
0	Record ID	ID	2/3	M	"TD1"						
1	Weight	R	1/10	M							
2	Unit or Basis of Measurement Code	ID	2/2	M							
9	Volume										
10	Unit or Basis of Measurement Code										

TD5 Carrier Details (Routing Sequence/Transit Time) 2/TD5/120					0:12	TD5 Carrier Details (Routing Sequence/Transit Time) 2/TD5/1200					0:12
0	Record ID	ID	2/3	M	"TD5"						
1	Routing Sequence Code	ID	1/1	X	No Restriction List	TD501					
2	Identification Code Qualifier	ID	1/2	X	No Restriction List	TD502					
3	Identification Code	AN	1/4	X		TD503					
4	Transportation Method/Type Code	ID	1/2	O	No Restriction List	TD504	Transportation Method/Type Code	ID	1/2	O	See DLMS Conversion Guide for Code List

REF Reference Identification 2/REF/150			0:S	REF Reference Identification 2/REF/1500			0:S
0	Record ID	ID 2/3 M	"REF"				
1	Reference Identification Qualifier	ID 2/3 M	<p><b>REF01 – Reference Identification Qualifier</b>  <b>Accepted in Shipment Loop (HL03 = S)</b></p> <p><b>If the following REF01 codes are present, map REF segments</b>  <b>ELSE: Do not map REF segments.</b></p> <p><b>08 Carrier Assigned Package Identification Number</b>  <b>0L Reference Qualifier (Used to relate Description of Secondary Transportation Tracking Number to previous REF Segment where REF01 = XY)</b>  <b>ACC Status (used to capture the Draft Indicator)</b>  <b>AW Air Waybill Number</b>  <b>BL Government Bill of Lading</b>  <b>BM Commercial Bill of Lading</b>  <b>BN Sealift Booking Number</b>  <b>CA Cost Allocation Reference – populates SDN Field in iRAPT</b>  <b>CN PRO/Invoice Number</b>  <b>CY Truck Number/Commercial Registration Number</b>  <b>E9 Attachment Code</b>  <b>FI Port Call File Number</b>  <b>IZ Insured Parcel Post Number</b>  <b>K2 Certified Mail Number</b>  <b>K3 Registered Mail Number</b>  <b>KL Contract Reference</b>  <b>LA Serial Shipping Container Code Qualifier</b>  <b>TG Transportation Control Number</b>  <b>TOC Type of Comment</b></p>	<p>At least one of REF02 or REF03 is required.</p> <p><b>REF01</b> Reference Identification Qualifier</p>	ID 2/3 M	<p>Not used for WAWF (HL03 = V); <b>used in I, P, W, and FI loops</b></p> <p>2E Foreign Military Sales Case Number  2I Tracking Number  60 Account Suffix Code  79 Cost Account  86 Operation Number  91 Cost Element  98 Container/Packaging Specification Number  9R Job Order Number  9X Account Category  AGY Agency Dispersing Identifier Code  AGZ Agency Accounting Identifier  AN Associated Purchase Orders  AVT Availability Type  BE Business Activity  BET Business Event Type Code  BLI Budget Line Item  BT Batch Number  CO Customer Order Number  DP Department Number  ECA Fund Identifier  FG Fund Identification Number  JB Job (Project) Number  JH Tag  LI Line Item Identifier (Seller's)  <b>MAT Main Account</b>  <b>MDN Hazardous Waste Manifest Document Number</b>  PA Price Area Number  PWC Preliminary Work</p>	

**WY Surface Waybill Number**  
**XC Trailer Number/Cargo Control Number**  
**XY Other Unlisted Transportation Number**  
**ZH Express Mail Number**

Candidate Number  
 Codes are applicable to certain HL loops

Q9 Repair Order Number  
 QR Quality Report Number  
 REB Reimbursable Code  
 SAT Sub Account  
 SBA Sub-Allocation  
 SCC Security Cooperation Customer Code  
 SCI Security Cooperation Implementing Agency  
 SCL Sub Class  
 SE Serial Number  
 SI Shipper's Identifying Number for Shipment (SID)  
 TF Transfer Number  
 TG Transportation Control Number (TCN)  
 TN Transaction Reference Number  
 TT Terminal Code  
 U3 Unique Supplier Identification Number (USIN)  
 WO Work Order Number  
 X9 Internal Control Number  
 XX4 Object Code  
 Codes are applicable to certain HL loops

<b>2</b>	Reference Identification	AN	1/50	M
<b>3</b>	Description	AN	1/80	X

<b>REF02</b>	Reference Identification	AN	1/50	M
<b>REF03</b>	Description	AN	1/80	X
<b>REF04</b>	Reference	AN	1/30	O

See DLMS Notes for usage  
 See DLMS Notes for



4	Reference Identifier	AN	1/30	O		<b>REF04-01</b>	Identifier Reference Identification	ID	2/3	O	usage See DLMS Notes for usage
5	Reference Identification Qualifier	ID	2/3	O		<b>REF04-02</b>	Qualifier Reference Identification	AN	1/50	O	See DLMS Notes for usage
6	Reference Identification	AN	1/50	O		<b>REF04-03</b>	Reference Identification	ID	2/3	O	See DLMS Notes for usage
7	Reference Identification Qualifier	ID	2/3	O		<b>REF04-04</b>	Qualifier Reference Identification	AN	1/50	O	See DLMS Notes for usage
8	Reference Identification	AN	1/50	O		<b>REF04-05</b>	Reference Identification	ID	2/3	O	See DLMS Notes for usage
9	Reference Identification Qualifier	ID	2/3	O		<b>REF04-06</b>	Qualifier Reference Identification	AN	1/50	O	See DLMS Notes for usage

<b>DTM Date/Time Reference 2/DTM/200 0:10</b>					
0	Record ID	ID	2/3	M	"DTM"
1	Date/Time Qualifier				IF DTM01 = 011 or 999 map 011 Shipped (always contained in 856S).  ELSE: Do not map DTM segment
		ID	3/3	M	
2	Date	DT	8/8	M	CCYYMMDD
3	Time	TM	4/8	X	

<b>DTM Date/Time Reference 2/DTM/2000 0:10</b>					
	<b>DTM01</b>	Date/Time Qualifier			
			ID	3/3	M
	<b>DTM02</b>	Date	DT	8/8	X
	<b>DTM03</b>	Time	TM	4/8	X

011 Shipped  
283 Funds Appropriation - Start  
284 Funds Appropriation - End  
369 Estimated Departure Date  
514 Transferred  
999 Document Date

**GF Segment – Furnished Goods and Services, 2/GF/330**

**GF Segment – Furnished Goods and Services, 2/GF/3300**

Create the following GF segment for GV Government to Contractor

IF GF03 is present  
 And  
 N101 = ST where HL03 = W  
 And  
 N103 = 10  
 And  
 The left one or two characters of N104 are in the Edit:/gex/etc/map/WAWF-856S\_Contractor\_dodaac.tbl lookup table

0	Record ID	ID	2/3	M	"GF"								
1	Reference No Qualifier	ID	2/2		Not Used	GF01	Reference No Qualifier	ID	2/3	X	C7 Contract Line Item Number		
2	Reference No.	AN	1/30		Not Used	GF02	Reference No.	AN	1/30	X			
3	Contract Number (Losing Contract Number)	AN	1/30	O	Not Used	GF03	Contract Number	AN	1/30	O	Contract Number		
4	Monetary Amount	R	1/15		Not Used	GF04	Monetary Amount	R	1/18	O			
5	Reference No. Qualifier	AN	2/2	O	Hardcode 'CT' Contract Number	GF05	Reference No. Qualifier	ID	2/3	X			
6	Reference No.(Gaining Contract Number)	AN	1/30	O	GF03	GF06	Reference No.	AN	1/30	X			
7	Release No. (Losing Delivery Order Number.)	AN	1/30	O	Not Used	GF07	Release No.	AN	1/30	O	Call or order number		
8	Reference No. Qualifier	ID	2/2	O	Hardcode RE – Release Number	GF08	Reference No. Qualifier	ID	2/3	X			
9	Reference No. (Gaining Delivery Order Number)	AN	1/30	O	GF07	GF09	Reference No.	AN	1/30	X			

Detail HL03 = I 0:s

HL Hierarchical Level LOOP				1:200,000	HL Hierarchical Level LOOP				1:200,000
<b>HL Hierarchical Level 2/HL/010</b>				<b>1:1</b>	<b>HL Hierarchical Level 2/HL/0100</b>				<b>1:1</b>
<b>0</b>	Record ID	ID	2/3	M	"HL"				
<b>1</b>	Hierarchical ID number	AN	1/12	M		<b>HL01</b>	Hierarchical ID number	AN	1/12 M
<b>2</b>	Hierarchical Parent ID Number	AN	1/12	O		<b>HL02</b>	Hierarchical Parent ID Number	AN	1/12 O
<b>3</b>	Hierarchical Level Code	ID	1/2	M	I' Item Loop	<b>HL03</b>	Hierarchical Level Code	ID	1/2 M
<b>4</b>		ID	1/1	O	1 When HL03 = I loop contains a child. Else 0.	<b>HL04</b>	Hierarchical Child Code	ID	1/1 M

LIN Item Identification 2/LIN/020				0:1	LIN Item Identification 2/LIN/0200				0:1
					<p>If either LIN04 or LIN05 is present, then the other is required.</p> <p>If either LIN06 or LIN07 is present, then the other is required.</p> <p>If either LIN08 or LIN09 is present, then the other is required.</p> <p>If either LIN10 or LIN11 is present, then the other is required.</p> <p>If either LIN12 or LIN13 is present, then the other is required.</p> <p>If either LIN14 or LIN15 is present, then the other is required.</p> <p>If either LIN16 or LIN17 is present, then the other is required.</p> <p>If either LIN18 or LIN19 is present, then the other is required.</p> <p>If either LIN20 or LIN21 is present, then the other is required.</p> <p>If either LIN22 or LIN23 is present, then the other is required.</p> <p>If either LIN24 or LIN25 is present, then the other is required.</p> <p>If either LIN26 or LIN27 is present, then the other is required.</p> <p>If either LIN28 or LIN29 is present, then the other is required.</p> <p>If either LIN30 or LIN31 is present, then the other is required.</p>				
<b>0</b>	Record ID	ID	2/3	M	"LIN"				
<b>1</b>	Line Item	AN	1/20	O		<b>LIN01</b>	Assigned	AN	1/20 O

Number					Identification						
<b>2</b>	See IC for valid codes				All valid IC codes	<b>LIN02</b>	Product/Service ID Qualifier				A1 Plant Equipment Number A2 Department of Defense Identification Code (DoDIC) A4 Subsistence Identification Number FB Form Number FS National Stock Number FT Federal Supply Classification MG Manufacturer's Part Number NN National Item Identification Number SW Stock Number YP Publication Number ZR Service Control Identification ZZ Mutually Defined
		ID	2/2	M				ID	2/2	M	
<b>3</b>		AN	1/48	M		<b>LIN03</b>	Product/Service ID	AN	1/48	M	
<b>4</b>	See IC for valid codes				All valid IC codes	<b>LIN04</b>	Product/Service ID Qualifier				CN Commodity Name FS National Stock Number ZB Commercial and Government Entity (CAGE) Code
		ID	2/2	O				ID	2/2	X	
<b>5</b>		AN	1/48	O		<b>LIN05</b>	Product/Service ID	AN	1/48	X	
<b>6</b>	Product/Service ID Qualifier	ID	2/2	O	All valid IC codes	<b>LIN06</b>	Product/Service ID Qualifier	ID	2/2	X	
<b>7</b>	Product/Service ID	AN	1/48	O		<b>LIN07</b>	Product/Service ID	AN	1/48	X	
<b>8</b>	Product/Service ID Qualifier	ID	2/2	O	All valid IC codes	<b>LIN08</b>	Product/Service ID Qualifier	ID	2/2	X	
<b>9</b>	Product/Service ID	AN	1/48	O		<b>LIN09</b>	Product/Service ID	AN	1/48	X	
<b>10</b>	Product/Service ID Qualifier	ID	2/2	O	All valid IC codes	<b>LIN10</b>	Product/Service ID Qualifier	ID	2/2	X	
<b>11</b>	Product/Service ID	AN	1/48	O		<b>LIN11</b>	Product/Service ID	AN	1/48	X	
<b>12</b>	Product/Service ID Qualifier	ID	2/2	O	All valid IC codes	<b>LIN12</b>	Product/Service ID Qualifier	ID	2/2	X	
<b>13</b>	Product/Service ID	AN	1/48	O		<b>LIN13</b>	Product/Service ID	AN	1/48	X	
<b>14</b>	Product/Service ID Qualifier	ID	2/2	O	All valid IC codes	<b>LIN14</b>	Product/Service ID Qualifier	ID	2/2	X	
<b>15</b>	Product/Service ID	AN	1/48	O		<b>LIN15</b>	Product/Service ID	AN	1/48	X	
<b>16</b>	Product/Service ID Qualifier	ID	2/2	O	All valid IC codes	<b>LIN16</b>	Product/Service ID Qualifier	ID	2/2	X	
<b>17</b>	Product/Service ID	AN	1/48	O		<b>LIN17</b>	Product/Service ID	AN	1/48	X	
<b>18</b>	Product/Service ID Qualifier	ID	2/2	O	All valid IC codes	<b>LIN18</b>	Product/Service ID Qualifier	ID	2/2	X	
<b>19</b>	Product/Service ID	AN	1/48	O		<b>LIN19</b>	Product/Service ID	AN	1/48	X	
<b>20</b>	Product/Service ID Qualifier	ID	2/2	O	All valid IC codes	<b>LIN20</b>	Product/Service ID Qualifier	ID	2/2	X	
<b>21</b>	Product/Service ID	AN	1/48	O		<b>LIN21</b>	Product/Service ID	AN	1/48	X	

<b>22</b>	Product/Service ID Qualifier	ID	2/2	O	All valid IC codes
<b>23</b>	Product/Service ID	AN	1/48	O	
<b>24</b>	Product/Service ID Qualifier	ID	2/2	O	All valid IC codes
<b>25</b>	Product/Service ID	AN	1/48	O	
<b>26</b>	Product/Service ID Qualifier	ID	2/2	O	All valid IC codes
<b>27</b>	Product/Service ID	AN	1/48	O	
<b>28</b>	Product/Service ID Qualifier	ID	2/2	O	All valid IC codes
<b>29</b>	Product/Service ID	AN	1/48	O	
<b>30</b>	Product/Service ID Qualifier	ID	2/2	O	All valid IC codes
<b>31</b>	Product/Service ID	AN	1/48	X	

**Create a LIN pair (last LIN Pair):**  
**When Inbound HL03 = I**  
**AND**  
**If no REF01 = U3 is present AND only one REF01 = SE segment is present.**  
**Map SN to LIN (Even Number) AND map the REF02 (when REF01 = SE) to LIN (Odd Number).**

<b>LIN22</b>	Product/Service ID Qualifier	ID	2/2	X	
<b>LIN23</b>	Product/Service ID	AN	1/48	X	
<b>LIN24</b>	Product/Service ID Qualifier	ID	2/2	X	
<b>LIN25</b>	Product/Service ID	AN	1/48	X	
<b>LIN26</b>	Product/Service ID Qualifier	ID	2/2	X	
<b>LIN27</b>	Product/Service ID	AN	1/48	X	
<b>LIN28</b>	Product/Service ID Qualifier	ID	2/2	X	
<b>LIN29</b>	Product/Service ID	AN	1/48	X	
<b>LIN30</b>	Product/Service ID Qualifier	ID	2/2	X	
<b>LIN31</b>	Product/Service ID	AN	1/48	X	

<b>SN1 Item Detail (Shipment) 2/SN1/030 0:1</b>					
<b>0</b>	Record ID	ID	2/3	M	"SN1"
<b>1</b>	Assigned Identification	AN		O	
<b>2</b>	Number of Units Shipped	N0		M	
<b>3</b>	Unit or Basis of Measurement Code	AN		M	

<b>SN1 Item Detail (Shipment) 2/SN1/0300 0:1</b>					
If either SN105 or SN106 is present, then the other is required.					
<b>SN101</b>	Assigned Identification	AN	1/20	O	Not used
<b>SN102</b>	Number of Units Shipped	R	1/10	M	Whole number; no decimals. See DLMS notes for rules. Use DLMS Conversion Guide for code restrictions. See special note on 1149 shipments.
<b>SN103</b>	Unit or Basis of Measurement Code	ID	2/2	M	

<b>SLN Subline Item Detail 2/SLN/040 0:1000</b>					
0	Record ID	ID	2/3	M	"SLN"
1	Assigned Identification	ID	1/20	O	
2	Assigned Identification	AN	1/20	O	
3	Relationship Code	ID	1/1	O	D Delete O Information Only
4	Quantity	AN	1/15	O	
5	Unit or Basis of Measurement Code	ID	2/2	O	
6	Unit Price	AN	1/17	O	
7	Basis of Unit Price Code	ID	2/2	O	
8	Relationship Code	AN	1/1	O	
9	Product/Service ID Qualifier	ID	2/2	O	
10	Product/Service ID	AN	1/48	O	
11	Product/Service ID Qualifier	ID	2/2	O	
12	Product/Service ID	AN	1/48	O	
13	Product/Service ID Qualifier	ID	2/2	O	
14	Product/Service ID	AN	1/48	O	
15	Product/Service ID Qualifier	ID	2/2	O	
16	Product/Service ID	AN	1/48	O	
17	Product/Service ID Qualifier	ID	2/2	O	
18	Product/Service ID	AN	1/48	O	
19	Product/Service ID Qualifier		2/2	O	
20	Product/Service ID		1/48	O	
21	Product/Service ID Qualifier		2/2	O	
22	Product/Service ID		1/48	O	
23	Product/Service ID Qualifier		2/2	O	
24	Product/Service ID		1/48	O	
25	Product/Service ID Qualifier		2/2	O	
26	Product/Service ID		1/48	O	
27	Product/Service ID Qualifier		2/2	O	
28	Product/Service ID		1/48	O	

<b>PID Product/Item Description 2/PID/070 0:200</b>					
0	Record ID	ID	2/3	M	"PID"
1	Item Description Type	ID	1/1	M	
5	Description	AN	1/80	X	

REF Reference Identification 2/REF/150					0:S	REF Reference Identification 2/REF/1500					0:S	
0	Record ID	ID	2/3	M	"REF"	At least one of REF02 or REF03 is required.						
1	Reference Identification Qualifier				<p><b>REF01 – Reference Identification Qualifier Accepted in Shipment Loop (HL03 = I)</b></p> <p>If the following REF01 codes are present, map REF segments  <b>ELSE: Do not map REF segments.</b></p> <p>A AEROSPACE ENGINES, AIRBREATHING (MIL-HDBK-1812)  B AEROSPACE ENGINES, NON-AIRBREATHING (MIL-HDBK-1812)  C AEROSPACE EQUIPMENT AND SUPPORT EQUIPMENT (MIL-HDBK-1812)  D ARMY NOMENCLATURE SYSTEM (MIL-STD-1464A)  E GROUPS AND UNITS (MIL-HDBK-1812)  F JOINT ELECTRONICS TYPE DESIGNATION SYSTEM (“A/N”) (MIL-STD-196E)  G NAVAL VESSEL REGISTRATION SYSTEM (SECNAV INSTRUCTION 5030.8)  H NAVY MARK/MOD NOMENCLATURE SYSTEM (MIL-STD-1661)</p>	<b>REF01</b>	Reference Identification Qualifier					<p><b>For DLMS I loop, use REF and NI segments to carry IUID data content.</b></p> <p>2E Foreign Military Sales Case Number  2I Tracking Number  60 Account Suffix Code  79 Cost Account  86 Operation Number  91 Cost Element  98 Container/Packaging Specification Number  9R Job Order Number  9X Account Category  AGY Agency Dispersing Identifier Code  AGZ Agency Accounting Identifier  AN Associated Purchase Orders  AVT Availability Type  BE Business Activity  BET Business Event Type Code  BLI Budget Line Item  BT Batch Number  CO Customer Order Number  DP Department Number  ECA Fund Identifier  FG Fund Identification Number  JB Job (Project) Number  JH Tag  LI Line Item Identifier (Seller's)  PA Price Area Number  PWC Preliminary Work Candidate Number</p>
		ID	2/3	M				ID	2/3	M		

**I PHOTOGRAPHIC  
EQUIPMENT (MIL-  
HDBK-1812)  
J U.S. MILITARY  
AEROSPACE VEHICLE  
DESIGNATION -  
AIRCRAFT (DOD  
DIRECTIVE 4120.15)  
K U.S. MILITARY  
AEROSPACE VEHICLE  
DESIGNATION -  
MISSILES, ROCKETS,  
PROBES AND  
SATELLITES (DOD  
DIRECTIVE 4120.15)  
XY Other Unlisted Type  
of Reference Number**

<b>2</b>	Reference Identification	AN	1/50	M
<b>3</b>	Description	AN	1/80	X
<b>4</b>	Reference	AN	1/30	O

<b>REF02</b>	Reference Identification	AN	1/50	M
<b>REF03</b>	Description	AN	1/80	X
<b>REF04</b>	Reference Identifier	AN	1/30	O
<b>REF04-01</b>	Reference Identification	ID	2/3	O

Q9 Repair Order Number  
 QR Quality Report Number  
 REB Reimbursable Code  
 SAT Sub Account  
 SBA Sub-Allocation  
 SCC Security Cooperation Customer Code  
 SCI Security Cooperation Implementing Agency  
 SCL Sub Class  
 SE Serial Number  
 SI Shipper's Identifying Number for Shipment (SID)  
 TF Transfer Number  
 TG Transportation Control Number (TCN)  
 TN Transaction Reference Number  
 TT Terminal Code  
 U3 Unique Supplier Identification Number (USIN)  
 WO Work Order Number  
 X9 Internal Control Number  
 XX4 Object Code



5	Identifier Reference Identification Qualifier	ID	2/3	O					
6	Reference Identification Qualifier	AN	1/50	O					
7	Reference Identification Qualifier	ID	2/3	O					
8	Reference Identification Qualifier	AN	1/50	O					
9	Reference Identification Qualifier	ID	2/3	O					
					<b>REF04-02</b>	Reference Identification Qualifier	AN	1/50	O
					<b>REF04-03</b>	Reference Identification Qualifier	ID	2/3	O
					<b>REF04-04</b>	Reference Identification Qualifier	AN	1/50	O
					<b>REF04-05</b>	Reference Identification Qualifier	ID	2/3	O
					<b>REF04-06</b>	Reference Identification Qualifier	AN	1/50	O

<b>CLD Loop</b>					<b>0:200</b>					
<b>CLD Load Detail 2/CLD/170</b>					<b>0:1</b>					
0	Record ID	ID	2/3	M	"CLD"					
1	Number of Loads	N0	1/5	M		<b>CLD01</b>	Number of Loads	N0	1/5	M
2	Number of Units Shipped	R	1/10	M		<b>CLD02</b>	Number of Units Shipped	R	1/10	M
3	Size	R	1/8	O		<b>CLD03</b>	Packaging Code	AN	3/5	O
4	Unit or Basis of Measurement Code	ID	2/2	O		<b>CLD04</b>	Size	R	1/8	X
						<b>CLD05</b>	Unit or Basis of Measurement Code	ID	2/2	O
<b>REF Reference Identification 2/REF/180</b>					<b>0:200</b>					
0	Record ID	ID	2/3	M	"REF"					
1	Reference Identification Qualifier	ID	2/3	M		<b>REF01</b>	Reference Identification Qualifier	ID	2/3	M
2	Reference Identification	AN	1/30	X		<b>REF02</b>	Reference Identification	AN	1/30	X
3	Reference Identification Qualifier	ID	2/3	M		<b>REF03</b>	Description	AN	1/80	X
4	Reference Identification	AN	1/30	M		<b>REF04</b>	Reference Identification Qualifier	ID	2/3	M
						<b>C04001</b>	Reference Identification Qualifier	ID	2/3	M
						<b>REF04</b>	Reference Identification	AN	1/30	M
						<b>C04002</b>	Reference Identification	AN	1/30	M
					<b>DTP Date or Time Period 2/DTP/1850</b>					
					<b>0:1</b>					

# Detail HL03 = D UID Loop

0:S

HL Hierarchical Level LOOP					1:200,000	HL Hierarchical Level LOOP					1:200,000
LOOP ID: HL – may loop 1 - 200,000 times											
HL	Hierarchical Level	2/HL/010	1:1			HL	Hierarchical Level	2/HL/010	1:1		
0		ID 2/3 M	"HL"			HL01	Hierarchical ID number	AN 1/12 M			
1	Hierarchical ID number	AN 1/12 M				HL02	Hierarchical Parent ID Number	AN 1/12 X			
2	Hierarchical Parent ID Number	AN 1/12 O				HL03	Hierarchical Level Code	ID 1/2 X	I Item		
3	Hierarchical Level Code	ID 1/2 M	D Product Description			HL04	Hierarchical Child Code	ID 1/1 M	See IC for valid codes.		
4	Hierarchical Child Code	ID 1/1 O									

SLN	Subline Item Detail	2/SLN/040	0:1000			SLN	Subline Item Detail	2/SLN/040	0:1000		
						<p>NOTE: There may be 1 instance of SLN per LIN Loop to specify Subline Item detail, (where HL03 = I).</p> <p>The SLN Segment can also be used to report UID information when the HL Segment is used (where HL03 = D) and to report GFP Current Part Number and Part Number Cost (where HL03 = J), thus always reported in the UID loop.</p> <p>Programming NOTE: SLN09 code list has been expanded. 856 IC is not restrictive for the sequence of SLN09 - SLN10 pairs that can repeat several iterations. The WAWF format is specific about exactly what sequence and what position these codes may appear in. Therefore, the WAWF format is very "fixed format" like.</p>					
0	Record ID	ID 2/3 M	SLN			SLN01	Assigned Identification	ID 1/20 M	A/N counter. Always '1' in the UID loop.		
1	Assigned Identification	ID 1/20 O	Hardcode 1			SLN02	Assigned Identification	AN 1/20 O	Not Used		
2	Assigned Identification	AN 1/20 O				SLN03	Relationship Code	ID 1/1 O	See IC for valid codes. Use code 'O' in UID loop.		
3	Relationship Code	ID 1/1 O	Hardcode O			SLN04	Quantity	AN 1/15 X	Always '1' in UID loop.		
4	Quantity	AN 1/15 O	Hardcode 1			SLN05	Unit or Basis of Measurement Code	ID 2/2 X	See IC for valid codes. Always 'EA' in UID loop.		
5	Unit or Basis of Measurement Code	ID 2/2 O	Hardcode EA			C00101	Measurement Code				
6	Unit Price	AN 1/17 O				SLN06	Unit Price	AN 1/17 X	In UID loop, this indicates "acquisition cost." When used in other loops, this indicates "unit price/value." When used in the HL03 = 'J' or 'F' (whichever is resolved) loop, then place 'MG' in SLN09 and Current Part Number in SLN10		

<b>7</b>	Basis of Unit Price Code	ID	2/2	O	<b>SLN07</b>	Basis of Unit Price Code	ID	2/2	O	See IC for valid codes. Not applicable in UID loop. Additional code: NS - Not Separately Priced.
<b>8</b>	Relationship Code	AN	1/1	O	<b>SLN08</b>	Relationship Code	AN	1/1	O	Not Used
<b>9</b>	Product/Service ID Qualifier	ID	2/2	O	<b>SLN09</b>	Product/Service ID Qualifier	ID	2/2	X	A8 Exhibit Line Item Number AK Refined Product Code B8 Batch Number CG Commodity Grouping CH Country of Origin Code CL Color CN Commodity Name EF Exhibit Identifier F7 End-Item Description F8 Next Higher Used Assembly FS National Stock Number FT Federal Supply Classification IN Buyer's Item Number KA Engineering Data List KB Data Category Code KD Replacement National Stock Number KF Item Type Number KG Time Compliant Technical Order KI Cognizance Symbol KJ Material Control Code KK Special Material Identification Code KL Item Management Code KM Shelf-Life Code KN Shelf-Life Action Code LT Lot Number MF Manufacturer MG Manufacturer's Part Number MN Model Number

10	Product/Service ID	AN	1/48	O
11	Product/Service ID Qualifier	ID	2/2	O
12	Product/Service ID	AN	1/48	O
13	Product/Service ID Qualifier	ID	2/2	O
14	Product/Service ID	AN	1/48	O
15	Product/Service ID Qualifier	ID	2/2	O
16	Product/Service ID	AN	1/48	O
17	Product/Service ID Qualifier	ID	2/2	O
18	Product/Service ID	AN	1/48	O
19	Product/Service ID Qualifier		2/2	O
20	Product/Service ID		1/48	O
21	Product/Service ID		2/2	O

Hardcode C7

Hardcode M

SLN10	Product/Service ID	AN	1/48	X
SLN11	Product/Service ID Qualifier	ID	2/2	X
SLN12	Product/Service ID	AN	1/48	X
SLN13	Product/Service ID Qualifier	ID	2/2	X
SLN14	Product/Service ID	AN	1/48	X
SLN15	Product/Service ID Qualifier	ID	2/2	X
SLN16	Product/Service ID	AN	1/48	X
SLN17	Product/Service ID Qualifier	ID	2/2	X
SLN18	Product/Service ID	AN	1/48	X
SLN19	Product/Service ID Qualifier		2/2	X
SLN20	Product/Service ID		1/48	X
SLN21	Product/Service ID		2/2	X

N1 National Drug Code in 4-4-2 Format  
N2 National Drug Code in 5-3-2 Format  
N3 National Drug Code in 5-4-1 Format  
N4 National Drug Code in 5-4-2 Format  
ND National Drug Code (NDC)  
PD Part Number Description  
PU Part Reference Number  
RC Returnable Container Number  
SN Serial Number  
ST Style Number  
SV Service Rendered  
SW Stock Number  
SZ Vendor Alphanumeric Size Code (NRMA)  
TP Product Type Code  
UK U.P.C./EAN Shipping Container Code (1-2-5-5-1)  
VI Vary Item Product Number  
VP Vendor's (Seller's) Part Number  
XZ Contractor Establishment Code  
ZB Commercial and Government Entity (CAGE) Code

For GFP transfer, add the code 'C7' which is used here when GFP Category Code  
E= equipment. M= Material

22	Qualifier Product/Service ID	1/48	O		SLN22	Qualifier Product/Service ID	1/48	X	
23	Product/Service ID Qualifier	2/2	O		SLN23	Product/Service ID Qualifier	2/2	X	
24	Product/Service ID	1/48	O		SLN24	Product/Service ID	1/48	X	
25	Product/Service ID Qualifier	2/2	O	<b>Hardcode TP</b>	SLN25	Product/Service ID Qualifier	2/2	X	UID: Enter "TP" Product Type Code for reporting 2DCOMPLIANT indicator
26	Product/Service ID	1/48	O	<b>Hardcode N</b>	SLN26	Product/Service ID	1/48	X	Y - Yes N - No
27	Product/Service ID Qualifier	2/2	O		SLN27	Product/Service ID Qualifier	2/2	X	
28	Product/Service ID	1/48	O		SLN28	Product/Service ID	1/48	X	

REF	Reference Identification	2/REF/150	0:S		REF	Reference Identification	2/REF/1500	0:S	
0	Record ID	ID 2/3	M	REF					
1	Reference Identification Qualifier	ID 2/3	M	<b>REF01 – Reference Identification Qualifier Accepted in Shipment Loop (HL03 =D)</b>  <b>If the following REF01 codes are present, map REF segments ELSE: Do not map REF segments.</b>  <b>U3 UID Value Note: Mandatory for all scenarios except "GG". R9 Rejection Number – (For iRAPT, used to Reject an individual UII on a GFP Receipt) DD Document Identification Code</b>	REF01	Reference Identification Qualifier	ID 2/3	M	<b>If no REF01 = U3, and only one REF01 = SE, map REF01 = SE segment. If multiple REF01 = SE, do not map any REF01 = SE segments Map to LIN in I loop as LIN01 = SN (even # LIN) REF02 map to LIN pair.</b>
2	Reference Identification	AN 1/30	O	<b>IF REF01 = U3, Do not map</b>	REF02	Reference Identification	AN 1/30	X	
3	Description	AN 1/80	O	<b>IF REF01 = U3, Map REF02</b>	REF03	Description	AN 1/80	X	UID in HL UID Loop usage

<b>4</b>	Reference Identification Qualifier	ID	2/3		No Restrictions	<b>REF04 C04001</b>	Reference Identification Qualifier	ID	2/3	M	No Restrictions Most frequent use should be 'BT' = batch number, 'LT' = lot number, or 'PC' = production code. W9 6O (Letter O, not the number zero)
<b>5</b>	Reference Identification	AN	1/30			<b>REF04 C04002</b>	Reference Identification	AN	1/30	M	W8, W9 Vendor supplied identification number corresponding to C4001. Allow "Yes". "W9:Yes" entry, when HL03 = P (Pack), and REF01 = U3. W9:Yes represents the optional Mark Indicator, within the Pack Data, at the Ull level. Allow numeric counter.
<b>6</b>	Reference Identification Qualifier	ID	2/3	O	No Restrictions	<b>REF04 C04003</b>	Reference Identification Qualifier	ID	2/3	X	No Restrictions W8, W9 For WAWF the SLN segment will be used by vendors to send batch/lot information as well as the 2DCOMPLIANT, Y for Yes and N for No.
<b>7</b>	Reference Identification	AN	1/30	O		<b>REF04 C04004</b>	Reference Identification	AN	1/30	X	
<b>8</b>	Reference Identification Qualifier	ID	2/3		No Restrictions	<b>REF04 C04005</b>	Reference Identification Qualifier	ID	2/3	X	No Restrictions
<b>9</b>	Reference Identification	AN	1/30			<b>REF04 C04006</b>	Reference Identification	AN	1/30	X	

# Detail HL03 = P 0:s

HL Hierarchical Level LOOP 1:200,000					HL Hierarchical Level LOOP 1:200,000				
<b>HL Hierarchical Level 2/HL/010 1:1</b>					<b>HL Hierarchical Level 2/HL/0100 1:1</b>				
0	Record ID	ID	2/3	M	"HL"				
1	Hierarchical ID number	AN	1/12	M		<b>HL01</b>	Hierarchical ID number	A N	1/12 M
2	Hierarchical Parent ID Number	AN	1/12	O		<b>HL02</b>	Hierarchical Parent ID Number	A N	1/12 O
3	Hierarchical Level Code	ID	1/2	M	P' Pack Loop	<b>HL03</b>	Hierarchical Level Code	ID	1/2 M
4		ID	1/1	O	1 When HL03 = P loop contains a child. Else 0.	<b>HL04</b>	Hierarchical Child Code	ID	1/1 M

REF Reference Identification 2/REF/150 0:S					REF Reference Identification 2/REF/1500 0:S					
0	Record ID	ID	2/3	M	"REF"	At least one of REF02 or REF03 is required.				

1 Reference  
Identification  
Qualifier

**Accepted in Pack Loop (HL03 = P)**  
**U3 UID Value**  
**JH Tag (RFID Tag Data)**

**If the following REF01 codes are present,  
map REF segments**  
**ELSE: Do not map REF segments.**

**U3 UID Value**  
**JH Tag (RFID Tag Data)**

ID 2/3 M

REF  
01 Reference  
Identification  
Qualifier

**Only JH is used for pRFID information**  
**2E Foreign Military Sales Case Number**  
**2I Tracking Number**  
**60 Account Suffix Code**  
**79 Cost Account**  
**86 Operation Number**  
**91 Cost Element**  
**98 Container/Packaging Specification  
Number**  
**9R Job Order Number**  
**9X Account Category**  
**AGY Agency Dispersing Identifier Code**  
**AGZ Agency Accounting Identifier**  
**AN Associated Purchase Orders**  
**AVT Availability Type**  
**BE Business Activity**  
**BET Business Event Type Code**  
**BLI Budget Line Item**  
**BT Batch Number**  
**CO Customer Order Number**  
**DP Department Number**  
**ECA Fund Identifier**  
**FG Fund Identification Number**  
**JB Job (Project) Number**  
**JH Tag**  
**LI Line Item Identifier (Seller's)**  
**PA Price Area Number**  
**PWC Preliminary Work Candidate  
Number**

ID 2/3 M



**Q9 Repair Order Number**  
**QR Quality Report Number**  
**REB Reimbursable Code**  
**SAT Sub Account**  
**SBA Sub-Allocation**  
**SCC Security Cooperation Customer Code**  
**SCI Security Cooperation Implementing Agency**  
**SCL Sub Class**  
**SE Serial Number**  
**SI Shipper's Identifying Number for Shipment (SID)**  
**TF Transfer Number**  
**TG Transportation Control Number (TCN)**  
**TN Transaction Reference Number**  
**TT Terminal Code**  
**U3 Unique Supplier Identification Number (USIN)**  
**WO Work Order Number**  
**X9 Internal Control Number**  
**XX4 Object Code**

2	Reference Identification	AN	1/50	M
3	Description	AN	1/80	X
4	Reference Identifier	AN	1/30	O
5	Reference Identification Qualifier	ID	2/3	O
6	Reference Identification	AN	1/50	O
7	Reference Identification Qualifier	ID	2/3	O
8	Reference Identification	AN	1/50	O
9	Reference Identification Qualifier	ID	2/3	O

**IF REF01 = U3 or JH, Do not map REF02 to REF02**  
**IF REF01 = U3 or JH, Map REF02**

REF02	Reference Identification	AN	1/50	M
REF03	Description	AN	1/80	X
REF04	Reference Identifier	AN	1/30	O
REF04-01	Reference Identification Qualifier	ID	2/3	O
REF04-02	Reference Identification	AN	1/50	O
REF04-03	Reference Identification Qualifier	ID	2/3	O
REF04-04	Reference Identification	AN	1/50	O
REF04-05	Reference Identification Qualifier	ID	2/3	O
REF04-06	Reference Identification	AN	1/50	O

<b>SDQ Destination Quantity 2/SDQ/290</b>		<b>0:50</b>			
0	Record ID	ID	2/3	M	"SDQ"
1	Unit or Basis for Measurement Code	ID	2/2	M	
2	Identification Code Qualifier	ID	1/2	O	
3	Identification Code	AN	2/80	M	
4	Quantity	R	1/15	M	
5	Identification Code	AN	2/80	O	
6	Quantity	R	1/15	O	
7	Identification Code	AN	2/80	O	
8	Quantity	R	1/15	O	
9	Identification Code	AN	2/80	O	
10	Quantity	R	1/15	O	
11	Identification Code	AN	2/80	O	
12	Quantity	R	1/15	O	
13	Identification Code	AN	2/80	O	
14	Quantity	R	1/15	O	
15	Identification Code	AN	2/80	O	
16	Quantity	R	1/15	O	
17	Identification Code	AN	2/80	O	
18	Quantity	R	1/15	O	
19	Identification Code	AN	2/80	O	
20	Quantity	R	1/15	O	
21	Identification Code	AN	2/80	O	
22	Quantity	R	1/15	O	
23	Location Identifier	AN	1/30	O	

## Summary

<b>SE Transaction Set Trailer 1/SE/510</b>		<b>1:1</b>			<b>SE Transaction Set Trailer 2/SE/0200</b>		<b>1:1</b>			
0	Record ID	ID	2/3	M	"SE"	<b>SE01</b>	Number of Included Segments	NO	1/1	M
1	Number of Included Segments	NO	1/10			<b>SE02</b>	Transaction Set Control Number	AN	4/9	M
2	Transaction Set Control Number	AN	4/9							Same number sited in ST02 must be cited
						<b>GE01</b>	Number of Transaction Sets Included			
						<b>GE02</b>	Group Control Number			Copy from GS06
						<b>IEA01</b>	Number of Included Functional Groups			
						<b>IEA02</b>	Interchange Control Number			Copy from ISA13

## Record of Change