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DoD
Electronic Data
Interchange (EDI)
Convention

ASC X12 Transaction Set 869
Order Status Inquiry
(Version 003020)

DL203LN10

December 1992

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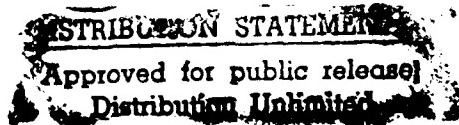
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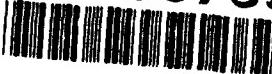
Draft

Department
of
Defense

DoD
Electronic Data
Interchange (EDI)
Convention

ASC X12 Transaction Set 869
Order Status Inquiry
(Version 003020)

Executive Agent for EC/EDI/PLUS
Defense Logistics Agency
Cameron Station
Alexandria, VA 22304-6100

10.0 DoD EDI CONVENTION

ASC X12 TRANSACTION SET 869
ORDER STATUS INQUIRY
(VERSION 003020)

**FORMATTING THE ORDER STATUS INQUIRY
FOR THE DEFENSE LOGISTICS AGENCY
USING THE ASC X12 TRANSACTION SET 869.**

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Contents

FORMATTING THE ORDER STATUS INQUIRY FOR THE DEFENSE LOGISTICS AGENCY USING THE ASC X12 TRANS-ACTION SET 869 ORDER STATUS INQUIRY.

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10.i INTRODUCTION

This is an Electronic Data Interchange (EDI) systems design document that describes the standard or "convention" the Defense Logistics Agency will use to permit vendors to request order status data using the ASC X12 Transaction Set 869 Order Status Inquiry (003020). It contains information for the design of interface computer programs that serve to link systems application computer programs and an EDI translator computer program.

Who Needs to Use This Document

Computer programmers can use this document to identify the data in a populated EDI transaction with data requirements of their specific application database. Conversely, programmers can identify where their applications data requirement should be carried in an EDI transaction.

Why Use a Convention

There are more ways to populate an EDI transaction than there are ways to fill out a blank form. A convention defines the rules for filling in or "populating" an EDI transaction with a specific data set. Following a convention ensures the integrity of data that is produced and processed by EDI capable computer systems.

Contents

Four sections are included in this document.

- Section 10.2, Control Segments, identifies the specific data requirements for formatting the EDI interchange control segments when sending and receiving EDI transactions.

- Section 10.7, DoD Conventions, lists the layout of the target transaction set by segment and data element. This section can be used to interpret segments and data elements of a populated transaction set.

- Appendices contain examples of populated transaction sets, trading partner data element matrix, and other items that serve as references for software developers.

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10.2 Control Segments

Overview

This chapter describes the Electronic Data Interchange (EDI) control segments (interchange control segments and functional group segments). The control segment information was derived from the ASC X12 Standards Version 3 Release 2 (003020).

Purpose

This chapter identifies specific data requirement for formatting the EDI control segments when transmitting and receiving EDI transactions. The format and data content of the control segments is usually managed by EDI translation software. The data requirement described herein should be used to set control segment format when installing or initializing translation software for transmission and reception of EDI transaction.

Contents

Two items are included in this chapter.

- Table 10.2-1, Interchange Control Segment Hierarchy describes the control segments in their order of occurrence in an EDI communications interchange.

- Table 10.2-2, DoD Convention ASC X12 Control Segments is a detailed description of the Department of Defense data conventions for formatting EDI standard control segments. All segments identified in Table 10.2-1 are broken down and described by their discrete data elements.

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TABLE 10.2-1

Control Segment Hierarchy

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Interchange Control Envelope
Control Segments

	Pos No.	Seg ID	Name	Req Des	Use	Loop
USE	10	ISA	Interchange Control Header	M	1	
USE	20	GS	Functional Group Header	M	1	

-
- Grouped Transactions
-

	Pos No.	Seg ID	Name	Req Des	Use	Loop
USE	30	GE	Functional Group Trailer	M	1	
USE	40	IEA	Interchange Control Trailer	M	1	

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TABLE 10.2-2

DoD Convention

ASC X12 Control Segments

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Segment: **ISA**   Interchange Control Header

Usage: **M**

Purpose: To start and identify an interchange of one or more functional groups and interchange-related control segments. The actual values of the data element separator and the segment terminator for this interchange are set by the interchange control header. For a particular interchange, the value at the fourth character position is the data element separator, and the value of the last character position is the value of the segment terminator.

Note: The interchange control number value in this header must match the value in the same data element in the corresponding interchange control trailer.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
ISA01	I01	Authorization Information Qualifier Code to identify the type of information in the Authorization Information.	M ID 2/2

Code	Definition
00	No Authorization Information Present

Ref. Des.	Data Element	Name	Attributes
ISA02	I02	Authorization Information Information used for additional identification or authorization of the sender or the data in the interchange. The type of information is set by the Authorization Information Qualifier.	M AN 10/10
ISA03	I03	Security Information Qualifier Code to identify the type of information in the Security Information.	M ID 2/2

Authorization Information
Qualifier
[001]

Authorization Information
[002]

If no authorization information is agreed to by trading partners, fill field with blanks.

Security Information Qualifier
[003]

Code	Definition
01	Password

ISA04 I04 Security Information   M AN 10/10

This is used for identifying the security information about the sender or the data in the interchange. The type of information is set by the Security Information Qualifier.

Security Information
[004]

An agreed upon password. If no security information is agreed to by trading partners, fill field with blanks.

ISA05 I05 Interchange Id Qualifier   M ID 2/2

Qualifier to designate the system/method of code structure used to designate the sender ID element being qualified.

Code	Definition
ZZ	Mutually Defined.

Interchange Id Qualifier
[005]

ISA06 I06 Interchange Sender Id   M AN 15/15

Identification code published by the sender for other parties to use as the receiver ID to route data to them. The sender always codes this number in the sender ID element.

Interchange Sender Id
[006]

DoD activities use Department of Defense Activity Address Code (DoDAAC) or other code coordinated with the value-added network (VAN). Non-DoD activities use identification code qualified by ISA05 and coordinated with the VAN.

ISA07 I05 Interchange Id Qualifier   M ID 2/2

Code to identify the type of information in the Authorization Information.

		Code	Definition		

Interchange Id Qualifier
[007]

ZZ Mutually Defined.

| ISA08 | I07 | Interchange Receiver Id | M | AN | 15/15 |

Identification code published by the receiver of the data. When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them.

Interchange Receiver Id
[008]

DoD activities use Department of Defense Activity Address Code (DoDAAC) or other code coordinated with the value-added network (VAN). Non-DoD activities use identification code qualified by ISA05 and coordinated with the VAN.

| ISA09 | I08 | Interchange Date | M | DT | 6/6 |

Date of the interchange.

Interchange Date
[009]

Assigned by translation software.
YYMMDD

| ISA10 | I09 | Interchange Time | M | TM | 4/4 |

Time of the interchange.

Interchange Time
[010]

Assigned by translation software.
HHMM

Interchange Control Standards
Identifier
[011]

| ISA11 | I10 | Interchange Control Standards Identifier | M | ID | 1/1 |

Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer.

Interchange Control Version
Number
[012]

Version ID as defined or agreed
upon by the trading partners.

| ISA12 | I11 | Interchange Control Version Number | M | ID | 5/5 |

This version number covers the interchange control segments.

Code	Definition
00302	Draft Standard for Trial Use Approved for Publication by ASC X12 Procedures Review Board Through October 1990

| ISA13 | I12 | Interchange Control Number | M | NO | 9/9 |

This number uniquely identifies the interchange data to the sender. It is assigned by the sender. Together with the sender ID it uniquely identifies the interchange data to the receiver. It is suggested that the sender, receiver, and all third parties be able to maintain an audit trail of interchanges using this number.

Interchange Control Number
[013]

| ISA14 | I13 | Acknowledgement Requested | M | ID | 1/1 |

Code sent by th;e sender to request an interchange acknowledgement.

Acknowledgement Requested
[014]

0 = no; 1 = yes

Test Indicator
[015]

Assigned by translation software.

ISA15	I14	Test Indicator	M	ID	1/1

Code to indicate whether data enclosed by this interchange envelope is test or production.

Code	Definition
P	Production Data
T	Test Data

ISA16	I15	Subelement Separator	M	AN	1/1

This is a field reserved for future expansion in separating data element subgroups. (In the interest of a migration to international standards, this must be different from the data element separator).

Subelement Separator
[016]

Use character "<".

Segment: **GS**   Functional Group Header

Usage: **M**

Purpose: To indicate the beginning of a functional group and to provide control information

Comment: A. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

Syntax Notes: 01 The data interchange control number (GS06) in this header must be identical to the same data element in the associated Functional Group Trailer (GE02).

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
GS01	479	Functional Id Code	M ID 2/2

Code identifying a group of application related Transaction Sets.

Code	Definition
RS	869 - Order Status Information

Functional Id Code
[020]

Choose the code value appropriate to the information content of the functional group. See X12 Dictionary for source code list.

GS02	142	Application Sender's Code	M ID 2/12

Code identifying party sending transmission. Codes agreed to by trading partners.

Application Sender's Code
[021]

DoD activities use Department of Defense Activity Address Code (DoDAAC). Non-DoD activities use identification code assigned by DoD activity. Recommend for increased security that non-DoD code differ from that used in ISA06.

GS03	124	Application Receiver's Code	M ID 2/12

Code identifying party receiving transmission. Codes

agreed to by trading partners.

Application Receiver's Code
[022]

DoD activities use Department of
Defense Activity Address Code
(DoDAAC). Non-DoD activities use
identification code assigned by DoD
activity. Recommend for increased
security that non-DoD code differ
from that used in ISA08.

GS04	29	Group Date	M	DT	3/6

Date sender generated a functional group of transaction sets.

Group Date
[023]

Assigned by translation software.

GS05	30	Group Time	M	TM	4/4

Time (HHMM) when the sender generated a functional group of transaction sets (local time at sender's location).

Group Time
[024]

Assigned by translation software.

GS06	28	Group Control Number	M	N0	1/9

Assigned number originated and maintained by the sender.

Group Control Number
[025]

Assigned by translation software.

GS07	455	Responsible Agency Code	M	ID	1/2

Code used in conjunction with Data Element 480 to identify the issuer of the standard.

Responsible Agency Code
[026]

Indicates that an ANSI X12 standard
is being transmitted.

Code	Definition
X	Accredited Standards Committee X12

Version/Release/Industry Id
Code
[027]

Code value agreed to by trading
partners. See X12 Dictionary for
source code list.

| GS08 | 480 | Version/Release/Industry Id Code | M | ID | 1/12 |

Code indicating the version, release, subrelease and industry identifier of the EDI standard being used. (See X12 Dictionary)

Code	Definition
003020	Draft Standards Approved By ASC X12 Through June 1991

Segment: **GE** Functional Group Trailer

Usage: **M**

Purpose: To indicate the end of a functional group and to provide control information

Comment: A. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

Syntax Notes: 01 The data interchange control number (GE02) in this trailer must be identical to the same data element in the associated Functional Group Header (GS06).

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
GE01	97	Number of Included Sets	M	NO	1/6

Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element.

Ref. Des.	Data Element	Name	Attributes		
GE02	28	Group Control Number	M	NO	1/9

Assigned number originated and maintained by the sender.

Number of Segments
[028]

Assigned by the translation software.

Group Control Number
[029]

Assigned by the translation software. This control number must match the control number of the preceding GS06 control number.

Segment: **IEA**   Interchange Control Trailer

Usage: **M**

Pupose: To define the end of an interchange of one or more functional groups and interchange related control segments.

Note: The interchange control number in this trailer must match the value in the same data element in the corresponding interchange header.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
IEA01	I16	Number of Included Functional Groups	M	N0	1/5

A count of the number of functional groups included in a transmission.

Number of Included
Functional Groups
[040]

Assigned by translation software.

Ref. Des.	Data Element	Name	Attributes		
IEA02	I12	Interchange Control Number	M	N0	9/9

This number uniquely identifies the interchange data to the sender. It is assigned by the sender. Together with the sender ID it uniquely identifies the interchange data to the receiver. It is suggested that the sender, receiver, and all third parties be able to maintain an audit trail of interchanges using this number.

Interchange Control Number
[041]

Assigned by translation software. This number must match the number that occurs in ISA13.

10.7 DoD CONVENTIONS

Overview

This chapter is the convention for the ASC X12 Transaction Set 869 (Version 003020) as used by the Defense Logistics Agency to permit vendors to request data used by contracting officers when making contract award determinations.

Purpose

This chapter contains all necessary information for a DoD trading partner to map and translate a Transaction Set 869. All trading partners who plan to exchange the Transaction Set 869 can use this document as a reference for the development of their EDI database/translator interface program.

Contents

One table is included in this chapter.

- Table 10.7-1, ASC X12 Transaction Set 869 Segment Hierarchy describes the 869 segments as they appear in the ASC X12 Standards Dictionary. The DoD Conventions that follow are a detailed description of the Department of Defense conventions for transmitting Transaction Set 869. All segments identified as used in the Segment Hierarchy are detailed in Table 10.7-1 by segment, position, and code value.

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TABLE 10.7-1

SEGMENT HIERARCHY

ASC X12 TRANSACTION SET 869
ORDER STATUS INQUIRY (Version 003020)

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869 Order Status Inquiry

This standard provides the format and establishes the data contents of an order status inquiry transaction set. The order status inquiry transaction set provides the ability to request all pertinent information relative to an entire purchase order, selected line items on a purchase order, or selected products/services on a purchase order. Inquiry can also be made for all or a selected portion of the customer's ordered items, all or a selected portion of the customer's unshipped items, or all or a selected portion of the customer's shipped items.

Table 1

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
3	010	ST	Transaction Set Header	M	1	
4	020	BSI	Beginning Segment for Order Status Inquiry	M	1	
N/U	030	NTE	Note/Special Instruction	O	100	

Table 2

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
			LOOP ID - HL			1000
5	010	HL	Hierarchical Level	M	1	
N/U	020	PRF	Purchase Order Reference	O	1	
N/U	030	DTM	Date/Time Reference	O	10	
N/U	040	REF	Reference Numbers	O	12	
			LOOP ID - N1			200
7	050	N1	Name	O	1	
N/U	060	N2	Additional Name Information	O	2	
N/U	070	N3	Address Information	O	2	
N/U	080	N4	Geographic Location	O	1	
N/U	090	REF	Reference Numbers	O	12	
N/U	100	PER	Administrative Communications Contact	O	3	
N/U	110	LIN	Item Identification	O	1	
N/U	120	PID	Product/Item Description	O	1000	
N/U	130	MEA	Measurements	O	40	

Table 3

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
8	010	CTT	Transaction Totals	M	1	
9	020	SE	Transaction Set Trailer	M	1	

NOTE:

3/010 CTT01 is the number of HL segments.

Mandatory

Segment: ST Transaction Set Header

Level: Header

Loop: ___

Usage: Mandatory

Max Use: 1

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

Comment: The transaction set identifier (ST01) is intended for use by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the invoice transaction set).

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
ST01	143	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set.	M	ID	3/3
	869	X12.11 Order Status Inquiry			
ST02	329	**Transaction Set Control Number** Identifying control number assigned by the originator for a transaction set.	M	AN	4/9

Mandatory (ST01)

Mandatory (ST02)

Segment: BSI Beginning Segment for Order Status Inquiry

Level: Header

Loop: ____

Usage: Mandatory

Max Use: 1

Purpose: To indicate the beginning of an order status inquiry and to provide the type of customer status inquiry.

Comments: 1. BSI01 is a status inquiry reference number.

2. BSI02 is date of the inquiry.

3. BSI06 is time of the inquiry.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME		ATTRIBUTES	
BSI01	127	Reference Number	M	AN	1/30

Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

Implementation Note:
A unique number assigned by the originator of the transaction set. This number is different from the control number carried in ST02.

BSI02	373	Date	M	DT	6/6

Date (YYMMDD).

BSI03	847	Order/Item Code	M	ID	1/2

Code identifying a group of orders and items.

CA All Orders - All Items

Code Value Implementation Note:
Use code "CA" to indicate all current discrepancy status is being requested.

BSI04	848	Product/Date Code	O	ID	1/2
BSI05	849	Location Code	O	ID	1/2
BSI06	337	Time	O	TM	4/6

Mandatory

Segment: **HL** Hierarchical Level

Level: Detail

Loop: HL   Repeat: 1000

Usage: Mandatory

Max Use: 1

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

Comments: *1.* The HL Segment is used to identify levels of detail information using a Hierarchical Structure, such as relating line item data to shipment data, and packaging data to line item data.

2. The HL segment defines a top-down/left-right ordered structure.

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

4. HL02 identifies the Hierarchical ID Number of the HL segment to which the current HL segment is subordinate.

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

6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME		ATTRIBUTES	

Mandatory   HL01   628   Hierarchical ID Number   M   AN   1/12
A unique number assigned by the sender to identify a particular data segment in a hierarchical structure.

Implementation Note:
The first iteration of the "HL" loop will carry the number "1". Each subsequent iteration of the "HL" loop will carry a progressively higher number, (e.g., 2,3,4, etc.).

Optional   HL02   734   Hierarchical Parent ID Number   O   AN   1/12
Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to.

Implementation Note:
This data element is not used in the first iteration of the "HL" loop. In the second and subsequent iterations of the "HL" loop, HL02 will carry the hierarchical ID number contained in the parent HL01 data element.

Mandatory   HL03   735   Hierarchical Level Code   M   ID   1/2
Code defining the characteristic of a level in a hierarchical structure.

O Order

Code Value Implementation Note:
Use code "O" to indicate discrepancy status is being requested at the contract/order level.

Not Used	HL04	736	Hierarchical Child Code	O	ID	1/1

Optional

Segment: N1 Name

Level: Detail

Loop: N1 **Repeat:** 200

Usage: Optional

Max Use: 1

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

Syntax: *1.* R0203 — At least one of N102 or N103 is required.

2. P0304 — If either N103 or N104 is present, then the other is required.

Comment: This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
Mandatory					
N101	98	**Entity Identifier Code** Code identifying an organizational entity or a physical location.	M	ID	2/2
		FR Message From			

Code Value Implementation Note:
Use code "FR" to indicate the message is from the party identified in data element N104.

Not Used					
N102	93	Name	C	AN	1/35
Conditional					
N103	66	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67).	C	ID	1/2
		33 Commercial and Government Entity (CAGE)			

Code Value Implementation Note:
When N101 is code "FR" use code "33" to indicate the information in data element N104 is the "CAGE" code of the party sending the message.

Conditional					
N104	67	**Identification Code** Code identifying a party.	C	AN	2/17

Implementation Note:
The actual CAGE code.

Segment: CTT Transaction Totals

Level: Summary

Loop: ___

Mandatory

Usage: Mandatory

Max Use: 1

Purpose: To transmit a hash total for a specific element in the transaction set

Syntax: *1.* C0304 — If CTT03 is present, then CTT04 is required.

2. C0506 — If CTT05 is present, then CTT06 is required.

Comment: This segment is intended to provide hash totals to validate transaction completeness and correctness.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME		ATTRIBUTES	
Mandatory CTT01	354	Number of Line Items Total number of line items in the transaction set.	M	NO	1/6

Implementation Note:
CTT01 carries the total number of all the "HL" segments used in the transaction.

Not Used CTT02	347	Hash Total	O	R	1/10
Not Used CTT03	81	Weight	O	R	1/8
Not Used CTT04	355	Unit of Measurement Code	C	ID	2/2
Not Used CTT05	183	Volume	O	R	1/8
Not Used CTT06	355	Unit of Measurement Code	C	ID	2/2
Not Used CTT07	352	Description	O	AN	1/80

Segment: **SE** Transaction Set Trailer

Level: Summary

Loop: ____

Mandatory

Usage: Mandatory

Max Use: 1

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

Comment: SE is the last segment of each transaction set.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME		ATTRIBUTES	
SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments.	M	NO	1/6

Mandatory

Implementation Note:
SE01 carries the total number of segments in the transaction set including the "ST" and "SE" segments.

Mandatory

| SE02 | 329 | Transaction Set Control Number
Identifying control number assigned by the originator for a transaction set. | M | AN | 4/9 |

Implementation Note:
SE02 carries the same unique control number as the one in ST02.

10.C Example - X12 Transaction Set 869 Order Status Inquiry

This appendix contains an example of Transaction Set 869 as it is used by the Defense Logistics Agency to permit vendors to request data used by contracting officers when making contract award decisions.

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Example - ORDER STATUS INQUIRY (869) TRANSACTION SET

ASC X12 EDI SYNTAX	ORDER STATUS INQUIRY DATA
ST*869*0001 n/l	The transaction set is an Order Status Inquiry (number 869) with a transaction set control number assigned by the originator of 0001.
BSI*3M001*921101*CA n/l	The originator of the transaction set assigned it a unique number of 3M001; the transaction is dated November 1, 1992; it is a contractor's request for information contained in his file.
HL*1**O n/l	The first iteration of the hierarchical segment (use the number "1") is at the order level (use code "O").
N1*FR**33*1B712 n/l	This transaction set is coming from (use code "FR") a DLA contractor whose CAGE code (use code "33") is 1B712.
CTT*1 n/l	In this transaction set there is one iteration of the "HL" loop.
SE*6*0001 n/l	In this transaction, which uses transaction set control number 0001, there are 6 segments, including the "ST" and "SE" segments.

NOTES: ALL NUMBERS ARE NOTIONAL AND USED FOR ILLUSTRATION PURPOSES ONLY.

The example is mapped to ASC X12 standards, version 3, release 2

An asterisk is used as the data element delimiter; the expression "n/l" indicates end of the segment.

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11. SUPPLEMENTARY NOTES

12a. DISTRIBUTION/AVAILABILITY STATEMENT	12b. DISTRIBUTION CODE

13. ABSTRACT *(Maximum 200 words)*

This is an Electronic Data Interchange (EDI) systems design document that describes the standard or "convention" the Defense Logistics Agency will use to accept a vendor's request for order status data using the ASC X12 Transaction Set 869 Order Status Inquiry (003020).

14. SUBJECT TERMS	15. NUMBER OF PAGES
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