

# 841 Specifications/Technical Information

Functional Group ID= **SP**

## Introduction:

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

## Notes:

- 1. The application name for this implementation convention is **PROVIDE TECHNICAL INFORMATION**.*
- 2. This implementation convention is used by the government or a contractor to respond to a request for technical information.*
- 3. It can be used by the government to transmit technical information that is part of a solicitation, as part of a contract or contract modification, or to transfer technical information between government activities.*
- 4. It can also be used by a bidder to provide technical information that is part of a Response to a Request for Quotation, 843 transaction set, or by a contractor to provide deliverables required by an award instrument, e.g., data required on a Contract Data Requirements List (CDRL), or to submit technical information as part of a requested change to a contract, e.g., an engineering change request.*
- 5. When used to provide technical information in support of Response to a Request for Quotation (843 transaction set), or to provide deliverables required by an award instrument, or to provide technical*

**information as part of a requested change to a contract, the transaction set shall only transmit information applicable to a single quote or a single award instrument.**

**Heading:**

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
Must Use	010	ST	Transaction Set Header	M	1		
						LOOP ID - SPI	>1
Must Use	020	SPI	Specification Identifier	M	1		
Not Used	030	RDT	Revision Date/Time	O	>1		
	040	NTE	Note/Special Instruction	O	>1		
Not Used	050	X1	Export License	O	1		
Not Used	060	X2	Import License	O	1		
Not Used	070	X7	Customs Information	O	1		
	080	AMT	Monetary Amount	O	>1		
						LOOP ID - REF	>1
	090	REF	Reference Identification	O	1		
Not Used	100	DTM	Date/Time Reference	O	>1		
Not Used	110	PER	Administrative Communications Contact	O	>1		
						LOOP ID - N1	>1
	120	N1	Name	O	1		
	130	N2	Additional Name Information	O	2		
	140	N3	Address Information	O	2		
	150	N4	Geographic Location	O	1		
	160	REF	Reference Identification	O	>1		
	170	PER	Administrative Communications Contact	O	>1		

**Detail:**

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
						LOOP ID - HL	>1
Must Use	010	HL	Hierarchical Level	M	1		n1, c1
						LOOP ID - SPI	>1
	020	SPI	Specification Identifier	O	1		
	030	RDT	Revision Date/Time	O	>1		
Not Used	033	PRR	Problem Report	O	>1		c2
Not Used	034	PRT	Part Disposition	O	>1		c3
Not Used	035	PRS	Part Release Status	O	1		c4
Not Used	040	LIN	Item Identification	O	1		c5
Not Used	045	N1	Name	O	>1		
Not Used	046	PER	Administrative Communications Contact	O	>1		
	050	MSG	Message Text	O	>1		
						LOOP ID - PID	>1

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Not Used	060	PID	Product/Item Description	O	1	
Not Used	065	PKD	Packaging Description	O	>1	
Not Used	070	QTY	Quantity	O	>1	
Not Used	074	MEA	Measurements	O	>1	
Not Used	075	UIT	Unit Detail	O	>1	
Not Used	076	LOC	Location	O	1	
Not Used	077	PWK	Paperwork	O	>1	
LOOP ID - PKG					>1	
Not Used	078	PKG	Marking, Packaging, Loading	O	1	
Not Used	079	MEA	Measurements	O	>1	
LOOP ID - REF					>1	
	080	REF	Reference Identification	O	1	
Not Used	090	DTM	Date/Time Reference	O	>1	
Not Used	100	PER	Administrative Communications Contact	O	>1	
LOOP ID - LX					>1	
Not Used	103	LX	Assigned Number	O	1	
Not Used	105	LIN	Item Identification	O	1	
Not Used	107	TMD	Test Method	O	1	
Not Used	110	MEA	Measurements	M	>1	
Not Used	112	PSD	Physical Sample Description	O	>1	
Not Used	114	SPS	Sampling Parameters for Summary Statistics	O	>1	
Not Used	120	DTM	Date/Time Reference	O	>1	
Not Used	130	REF	Reference Identification	O	>1	
LOOP ID - EFI					>1	
	140	EFI	Electronic Format Identification	O	1	
Must Use	160	BIN	Binary Data	M	1	
LOOP ID - CID					>1	
Not Used	170	CID	Characteristic/Class ID	O	1	c6
Not Used	180	UIT	Unit Detail	O	1	
Not Used	190	TMD	Test Method	O	>1	
Not Used	200	PSD	Physical Sample Description	O	1	
Not Used	201	CSS	Conditional Sampling Sequence	O	1	n2
Not Used	210	SPS	Sampling Parameters for Summary Statistics	O	1	
Not Used	220	MSG	Message Text	O	>1	
LOOP ID - MEA					>1	
Not Used	230	MEA	Measurements	O	1	
Not Used	240	DTM	Date/Time Reference	O	>1	
Not Used	250	REF	Reference Identification	O	>1	
LOOP ID - STA					>1	
Not Used	260	STA	Statistics	O	1	
Not Used	270	DTM	Date/Time Reference	O	>1	
Not Used	280	REF	Reference Identification	O	>1	
LOOP ID - CSF					>1	
Not Used	282	CSF	Conditional Sampling Frequency	O	1	n3, c7
Not Used	283	LS	Loop Header	O	1	

			LOOP ID - CID	>1		
Not Used	284	CID	Characteristic/Class ID	O	1	n4, c8
Not Used	285	MEA	Measurements	O	1	c9
Not Used	286	STA	Statistics	O	1	c10
Not Used	287	LE	Loop Trailer	O	1	
			LOOP ID - EFI	>1		
Not Used	290	EFI	Electronic Format Identification	O	1	
Not Used	310	BIN	Binary Data	M	1	

**Summary:**

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
Must Use	010	SE	Transaction Set Trailer	M	1		

**Transaction Set Notes**

- To be meaningful, at least one of the SPI, PID, REF, MEA, EFI or CID loops must be present with each occurrence of the HL loop.
- The sampling sequence specified in the CSS segment will take precedence over any other sampling rate (PSD03, PSD09, SPS06, CSF02, and CSF03) from the point the CSS01 event occurs until the specified sequence is completed.  
If no other sampling is specified, then only the sampling indicated in this segment is performed when the CSS01 event occurs.
- The sampling rate specified is the CSF segment. It would take precedence over the normal sampling rate specified in PSD03 while the conditions of the CSF segment are satisfied, but would NOT take precedence over the sampling sequence activated by the proposed CSS segment.  
If no other sampling rate is specified, then the only sampling indicated in the CSF segment is performed while the CSF conditions are met. Sampling will cease when the conditions are no longer met.  
Conditional values specified in DE 740 (Range Minimum) will be interpreted as "greater than or equal to this value." Values specified in DE 741 (Range Maximum) will be interpreted to mean "less than or equal to this value."
- Either the MEA segment or the STA segment must occur, but not both.

**Transaction Set Comments**

- The HL segment may be used to define the hierarchical relationship of product-related specifications reported in the associated HL loop. Product-related specifications may refer to the product in its entirety or to subunits of the product. For example, if the top level refers to an assembly, the second-level HL segment may refer to parts or subassemblies of the top assembly. This pattern may be repeated as often as required.
- The PRR segment contains the reason for an engineering change.
- The PRT segment is used to describe what should be done with the parts or assemblies specified in the preceding SPI segment.
- The PRS segment is used to tell the current status of the parts specified in the SPI segment required to make the change.
- The repeated pairs of 234 and 234 data elements in the LIN segment can be used to list where this

modified part or assembly is used.

6. The CID segment may be used to define either a general class of properties, such as physical properties, or an individual property within a class. The CID loop allows the user the ability to define specifications such as the properties of the item or class, the environmental conditions under which the specifications apply, the test methods to be used, and other parameters related to properties within the current HL hierarchical level.
7. Repetitions of the CSF loop allow several frequency changes (and the conditions that would trigger those changes) to be specified.  
If the conditions are such that several CSF values are activated at the same time, the value with the highest sampling rate shall prevail.
8. The CID loop within the CSF loop is used to specify the conditions that will trigger activation of the conditional value in the CSF segment.  
Repetitions of the CID loop will have an implied logical AND between the conditions set in each iteration.
9. The elements of the CID segment identify the conditional property. If the property is a measurement from within the manufacturing process of a plant environment, rather than the product, the segment also identifies the location where the measurements are to be observed.
10. If the condition is based on single test measurements, the MEA segment is used to specify the units of measure, and the open or closed numeric range of the conditional test.

**Segment:** **ST** Transaction Set Header  
**Position:** 010  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the start of a transaction set and to assign a control number  
**Syntax Notes:**  
**Semantic Notes:** 1 The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).  
**Comments:**

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>		<b>Attributes</b>
	<b>Des.</b>	<b>Element</b>	<b>Name</b>	
<b>Must Use</b>	<b>ST01</b>	<b>143</b>	<b>Transaction Set Identifier Code</b>	<b>M ID 3/3</b>
			Code uniquely identifying a Transaction Set	
			841 X12.51 Specifications/Technical Information	
<b>Must Use</b>	<b>ST02</b>	<b>329</b>	<b>Transaction Set Control Number</b>	<b>M AN 4/9</b>
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	
			<i>This unique number is assigned by the originator of the transaction set. This same number is carried in SE02.</i>	

**Segment:** **SPI** Specification Identifier  
**Position:** 020  
**Loop:** SPI Mandatory  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To provide a description of the included specification or technical data items  
**Syntax Notes:** 1 If either SPI02 or SPI03 is present, then the other is required.  
**Semantic Notes:**  
**Comments:**

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	SPI01	786	Security Level Code	M ID 2/2

Code indicating the level of confidentiality assigned by the sender to the information following

- 1. Use the data element to identify the highest level of protection (government or commercial) assigned to the provided information. Use the SPI segment at the Detail Level to indicate the protection level of individual items.*
- 2. When the transaction set is originated by a contractor, if the data have both a government security classification and a commercial protection requirement, this data element will carry the government security classification code and the commercial protection requirement code will be carried in SPI09.*
- 3. When the transaction set is originated by the government, this data element may carry either the government security classification or the commercial protection requirement code, as applicable, with the government security classification code taking precedence. In this instance, SPI09 may only cite code 99, when it is necessary to indicate that data referenced in the transaction set is restricted to certified contractors.*
- 4. If neither a government security classification nor a commercial protection requirement applies to the information, code 90 shall be cited.*

06	Supplier Proprietary
11	Competition Sensitive
90	Government Non-Classified
92	Government Confidential
93	Government Secret
94	Government Top Secret

<b>Must Use</b>	<b>SPI02</b>	<b>128</b>	<b>Reference Identification Qualifier</b>	<b>X</b>	<b>ID 2/3</b>
			Code qualifying the Reference Identification		
			<b>USE OF THIS DATA ELEMENT IS REQUIRED.</b>		
			TN		Transaction Reference Number
					<i>Use to indicate the unique reference number of this transaction set. This number is assigned by the originator of the transaction set.</i>
<b>Must Use</b>	<b>SPI03</b>	<b>127</b>	<b>Reference Identification</b>	<b>X</b>	<b>AN 1/30</b>
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			<b>USE OF THIS DATA ELEMENT IS REQUIRED.</b>		
<b>Not Used</b>	<b>SPI04</b>	<b>790</b>	<b>Entity Title</b>	<b>O</b>	<b>AN 1/132</b>
			Title of the data entity		
<b>Not Used</b>	<b>SPI05</b>	<b>791</b>	<b>Entity Purpose</b>	<b>O</b>	<b>AN 1/80</b>
			The reason for the existence of the data item specified by the electronic data item independent of its presence in an EDI transaction		
<b>Not Used</b>	<b>SPI06</b>	<b>792</b>	<b>Entity Status Code</b>	<b>O</b>	<b>ID 1/1</b>
			Code indicating the current status of the data item specified by the electronic data item		
<b>Must Use</b>	<b>SPI07</b>	<b>353</b>	<b>Transaction Set Purpose Code</b>	<b>O</b>	<b>ID 2/2</b>
			Code identifying purpose of transaction set		
			<b>USE OF THIS DATA ELEMENT IS REQUIRED.</b>		
			00		Original
					<i>Use to indicate an original transmission when none of the other codes apply.</i>
			08		Status
					<i>Use to indicate only a portion of a request is being satisfied. Provide an explanation in the 1/NTE/040 segment.</i>
			12		Not Processed
					<i>Use to indicate a request could not be satisfied. Provide the reason in the 1/NTE/040 segment.</i>
			25		Incremental
					<i>Use to indicate 2 or more 841 transaction sets are being sent to transmit all technical information. Identify the unique reference number of the previous 841 transaction set in the 1/REF/090 segment using code Q4.</i>
			53		Completion
					<i>When 2 or more 841 transaction sets are being sent to transmit all technical information, use to indicate the final transaction set. Identify the unique reference number of the previous 841</i>

*transaction set in the 1/REF/090 segment using code Q4.*

**Must Use SPI08 755 Report Type Code O ID 2/2**

Code indicating the title or contents of a document, report or supporting item

***USE OF THIS DATA ELEMENT IS REQUIRED.***

- AE Attachment  
*Use to indicate miscellaneous information not applicable to any other listed code is being provided.*
- B1 Batch Report  
*Use to indicate technical information provided in response to a request.*
- KA Contract Data Requirements List (CDRL)  
*1. Use to indicate an award instrument deliverable.*  
*2. This code is only used by a contractor.*
- KH Proposal Support Data  
*1. Use to indicate technical information in support of proposal, i.e., 843 transaction set.*  
*2. This code is only used by a contractor.*
- KJ Change Proposal Data  
*Use to indicate information in support of a requested change (including waivers and deviations) to an award instrument that is transmitted in an 860 or an 865 transaction set.*
- PC Process Change Notice  
*1. Use to indicate information applicable to a contract modification, i.e., an 860 transaction set.*  
*2. This code is used only by the government.*
- PF Product Specification  
 Specifications, generated by the supplier/manufacturer, detailing the properties or performance characteristics of a finished product  
*1. Use to indicate technical information applicable to an award instrument, i.e., an 850 transaction set.*  
*2. This code is only used by the government.*
- SD Support Data for a Request for Quote  
*1. Use to indicate technical information applicable to a solicitation, i.e., an 840 transaction set.*

**2. This code is only used by the government.**

**SPI09 786 Security Level Code O ID 2/2**  
 Code indicating the level of confidentiality assigned by the sender to the information following

**1. When the transaction set is originated by a contractor, use this data element ONLY when SPI01 is Code 92, 93, or 94 and the information also has a commercial protection requirement.**

**2. Codes 06 and 11 indicate the highest level of commercial security protection assigned to the information being provided. Use the SPI segment at the Detail Level to indicate the commercial protection requirement of individual data items.**

**3. When the transaction set is originated by the government, this data element may cite only code 99, if applicable.**

06 Supplier Proprietary

**This code is only used by a contractor.**

11 Competition Sensitive

**This code is only used by a contractor.**

99 Government Defined (Trading Partner Level)

**1. Use to indicate that information referenced in this transaction set is restricted to certified contractors.**

**2. This code is used only by the government.**

**Not Used SPI10 559 Agency Qualifier Code O ID 2/2**  
 Code identifying the agency assigning the code values

**Not Used SPI11 822 Source Subqualifier O AN 1/15**  
 A reference that indicates the table or text maintained by the Source Qualifier

**Not Used SPI12 554 Assigned Number O N0 1/6**  
 Number assigned for differentiation within a transaction set

**Not Used SPI13 1322 Certification Type Code O ID 1/1**  
 Code indicating the type of certification

**Not Used SPI14 1401 Proposal Data Detail Identifier Code O ID 1/3**  
 Code identifying the basis of a cited value in a proposal

**Segment:** **NTE** Note/Special Instruction  
**Position:** 040  
**Loop:** SPI Mandatory  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To transmit information in a free-form format, if necessary, for comment or special instruction

**Syntax Notes:**

**Semantic Notes:**

**Comments:** 1 The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.

**Notes:** *Use this segment to provide information applicable to the entire transaction set. To provide information applicable to a specific item, use the 2/MSG/050 segment.*

**Data Element Summary**

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
Must Use	NTE01	363	Note Reference Code	O ID 3/3
			Code identifying the functional area or purpose for which the note applies	
			<i>If the NTE segment is used, this data element is REQUIRED.</i>	
		ACN	Action Taken	
			<i>When SPI07 is code 08 or 12, use to provide the reasons for not processing or satisfying the total request.</i>	
		GEN	Entire Transaction Set	
			<i>Use to indicate information related to the data in this transaction set.</i>	
Must Use	NTE02	352	Description	M AN 1/80
			A free-form description to clarify the related data elements and their content	

**Segment:** **AMT** Monetary Amount  
**Position:** 080  
**Loop:** SPI Mandatory  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To indicate the total monetary amount  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

- Notes:**
1. Use this segment to identify the cost associated with providing the information and the balance of the requester's account.
  2. This segment is only used by the government when responding to a request from a contractor that contained codes 24, AE, KE, KG, or KI in SPI08 of the 1/SPI/020 segment of the request.

**Data Element Summary**

Ref.	Data	Element	Name	Attributes
Must Use	AMT01	522	Amount Qualifier Code Code to qualify amount	M ID 1/2
			PB Billed Amount Total amount due on the period bill <i>Use to indicate the amount charged the requester for the information provided.</i>	
			T4 Total Current Balance <i>Use to indicate the current balance of a requester's account after the charge for the information in this transaction set has been deducted.</i>	
Must Use	AMT02	782	Monetary Amount Monetary amount	M R 1/15
Not Used	AMT03	478	Credit/Debit Flag Code Code indicating whether amount is a credit or debit	O ID 1/1

**Segment:** **REF** Reference Identification

**Position:** 090

**Loop:** REF Optional

**Level:** Heading

**Usage:** Optional

**Max Use:** 1

**Purpose:** To specify identifying information

- Syntax Notes:**
- 1 At least one of REF02 or REF03 is required.
  - 2 If either C04003 or C04004 is present, then the other is required.
  - 3 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** 1 REF04 contains data relating to the value cited in REF02.

**Comments:**

**Notes:** *Use this I/REF/090 segment to identify reference numbers applicable to the technical information being provided in this transaction set.*

**Data Element Summary**

<b>Ref. Des.</b>	<b>Data Element</b>	<b>Name</b>	<b>Attributes</b>
<b>Must Use</b>	<b>REF01</b>	<b>128 Reference Identification Qualifier</b>	<b>M ID 2/3</b>

Code qualifying the Reference Identification

39 Proposal Number

*Use to indicate either a contractor originated change proposal number, found in an 865 transaction set or a draft contract modification number, found in an 860 transaction set to which the information provided in this transaction set applies. When used, a second REF segment citing code CT in REF01 must be transmitted.*

C4 Change Number

*Use to indicate the award instrument modification number assigned in an 860 transaction set to which the information provided in this transaction set applies. When used, a second REF segment citing code CT in REF01 must be transmitted.*

CT Contract Number

*Use to indicate the award instrument number to which the information provided in this transaction set applies.*

DO Delivery Order Number

*Use to indicate a delivery order number, call or release to which the information provided in this transaction set applies. When used, a second REF segment must be transmitted citing code CT in REF01 to identify the basic award instrument*

*applicable to the delivery, call or release.*

**KS** Solicitation  
 A discreet number assigned by the purchasing activity to differentiate between different solicitations

*Use to indicate the solicitation number to which the information provided in this transaction set applies.*

**PR** Price Quote Number  
**1. Use to indicate the bid, quote or proposal number to which the information provided in this transaction set applies.**  
**2. This code is only used by a contractor when SPI08 in the 1/SPI/020 segment is code KH.**

**Q4** Prior Identifier Number  
*When SPI07 is code 25 or 53, use to indicate the unique reference number of the prior transaction set that transmitted a portion of the requested information. If more than one transaction set has been transmitted, cite the unique reference number of the last transmission.*

**TN** Transaction Reference Number  
*Use to indicate the reference number of the transaction set to which this transaction set is responding.*

	<b>REF02</b>	<b>127</b>	<b>Reference Identification</b>	<b>X</b>	<b>AN 1/30</b>
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
<b>Not Used</b>	<b>REF03</b>	<b>352</b>	<b>Description</b>	<b>X</b>	<b>AN 1/80</b>
			A free-form description to clarify the related data elements and their content		
<b>Not Used</b>	<b>REF04</b>	<b>C040</b>	<b>Reference Identifier</b>	<b>O</b>	
			To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier		
<b>Not Used</b>	<b>C04001</b>	<b>128</b>	<b>Reference Identification Qualifier</b>	<b>M</b>	<b>ID 2/3</b>
			Code qualifying the Reference Identification		
<b>Not Used</b>	<b>C04002</b>	<b>127</b>	<b>Reference Identification</b>	<b>M</b>	<b>AN 1/30</b>
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
<b>Not Used</b>	<b>C04003</b>	<b>128</b>	<b>Reference Identification Qualifier</b>	<b>X</b>	<b>ID 2/3</b>
			Code qualifying the Reference Identification		
<b>Not Used</b>	<b>C04004</b>	<b>127</b>	<b>Reference Identification</b>	<b>X</b>	<b>AN 1/30</b>

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			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
<b>Not Used</b>	<b>C04005</b>	<b>128</b>	<b>Reference Identification Qualifier</b>	<b>X</b>	<b>ID 2/3</b>
			Code qualifying the Reference Identification		
<b>Not Used</b>	<b>C04006</b>	<b>127</b>	<b>Reference Identification</b>	<b>X</b>	<b>AN 1/30</b>
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

**Segment:** **N1** Name  
**Position:** 120  
**Loop:** N1 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To identify a party by type of organization, name, and code  
**Syntax Notes:**  
 1 At least one of N102 or N103 is required.  
 2 If either N103 or N104 is present, then the other is required.

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

**Notes:** *Whenever possible, identification and address information should be provided using N101, N103, and N104. Use N102 and segments N2 through N4, as applicable, when this information cannot be provided by using one of the codes listed in N103.*

**Data Element Summary**

Ref.	Data		Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
Must Use	N101	98 Entity Identifier Code	M ID 2/2
		Code identifying an organizational entity, a physical location, or an individual	
		BY Buying Party (Purchaser)	
		<i>Use to indicate a government activity that is receiving technical information.</i>	
		KY Technical Office	
		<i>Use to indicate a government activity that is transmitting technical information.</i>	
		SE Selling Party	
		<i>Use to indicate a commercial party that is either transmitting or receiving technical information.</i>	
	N102	93 Name	X AN 1/35
		Free-form name	
	N103	66 Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		<i>While the federal EDI program uses the DUNS number, other government users of this implementation convention may require the use of other and additional numbers for a transition period in order to cross reference existing data bases.</i>	
		1 D-U-N-S Number, Dun & Bradstreet	

*Use of the DUNS and DUNS +4 number is preferred over other codes to identify an entity.*

9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix

*Use of the DUNS and DUNS +4 number is preferred over other codes to identify an entity.*

10 Department of Defense Activity Address Code (DODAAC)

33 Commercial and Government Entity (CAGE)

	<b>N104</b>	<b>67</b>	<b>Identification Code</b>	<b>X</b>	<b>AN 2/20</b>
			Code identifying a party or other code		
<b>Not Used</b>	<b>N105</b>	<b>706</b>	<b>Entity Relationship Code</b>	<b>O</b>	<b>ID 2/2</b>
			Code describing entity relationship		
<b>Not Used</b>	<b>N106</b>	<b>98</b>	<b>Entity Identifier Code</b>	<b>O</b>	<b>ID 2/2</b>
			Code identifying an organizational entity, a physical location, or an individual		

**Segment:** **N2 Additional Name Information**

**Position:** 130

**Loop:** N1 Optional

**Level:** Heading

**Usage:** Optional

**Max Use:** 2

**Purpose:** To specify additional names or those longer than 35 characters in length

**Syntax Notes:**

**Semantic Notes:**

**Comments:**

**Notes:** *This segment should only be used when N102 is used and it is necessary to provide additional name information.*

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>		<b>Attributes</b>
	<b>Des.</b>	<b>Element</b>	<b>Name</b>	
<b>Must Use</b>	<b>N201</b>	<b>93</b>	<b>Name</b> Free-form name	<b>M AN 1/35</b>
	<b>N202</b>	<b>93</b>	<b>Name</b> Free-form name	<b>O AN 1/35</b>

**Segment:** **N3 Address Information**  
**Position:** 140  
**Loop:** N1 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 2  
**Purpose:** To specify the location of the named party  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**  
**Notes:** *This segment should only be used when N102 is used.*

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>		<b>Attributes</b>
	<b>Des.</b>	<b>Element</b>	<b>Name</b>	
<b>Must Use</b>	<b>N301</b>	<b>166</b>	<b>Address Information</b> Address information	<b>M AN 1/35</b>
	<b>N302</b>	<b>166</b>	<b>Address Information</b> Address information	<b>O AN 1/35</b>

**Segment:** **N4 Geographic Location**  
**Position:** 150  
**Loop:** N1 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify the geographic place of the named party  
**Syntax Notes:** 1 If N406 is present, then N405 is required.  
**Semantic Notes:**  
**Comments:** 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.  
 2 N402 is required only if city name (N401) is in the U.S. or Canada.  
**Notes:** *This segment should only be used when N102 is used.*

**Data Element Summary**

<b>Ref.</b>	<b>Data</b>	<b>Name</b>	<b>Attributes</b>
<b>Des.</b>	<b>Element</b>		
N401	19	<b>City Name</b> Free-form text for city name	O AN 2/30
N402	156	<b>State or Province Code</b> Code (Standard State/Province) as defined by appropriate government agency	O ID 2/2
N403	116	<b>Postal Code</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O ID 3/15
N404	26	<b>Country Code</b> Code identifying the country	O ID 2/3
Not Used	N405	<b>309 Location Qualifier</b> Code identifying type of location	X ID 1/2
Not Used	N406	<b>310 Location Identifier</b> Code which identifies a specific location	O AN 1/30

**Segment:** **REF** Reference Identification

**Position:** 160

**Loop:** N1 Optional

**Level:** Heading

**Usage:** Optional

**Max Use:** >1

**Purpose:** To specify identifying information

- Syntax Notes:**
- 1 At least one of REF02 or REF03 is required.
  - 2 If either C04003 or C04004 is present, then the other is required.
  - 3 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** 1 REF04 contains data relating to the value cited in REF02.

**Comments:**

**Notes:** *When N101 is code SE and the selling party is transmitting technical information, use this segment to identify reference numbers applicable to the selling party.*

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>	<b>Attributes</b>
	<b>Des.</b>	<b>Element Name</b>	
Must Use	REF01	128 Reference Identification Qualifier Code qualifying the Reference Identification	M ID 2/3
		EL Electronic device pin number	
			<p><i>1. Use to indicate the identification number assigned to a selling party at the time of registration.</i></p> <p><i>2. Use of this code is REQUIRED when the selling party is transmitting technical information.</i></p>
		TJ Federal Taxpayer's Identification Number	
		W7 Commercial and Government Entity (CAGE) Code Code that identifies a commercial contractor authorized to do business with the U.S. Government	
			<p><i>When N101 is code SE and the selling party is transmitting technical information use to indicate the CAGE code of the selling party if N103 is other than code 33.</i></p>
	REF02	127 Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
Not Used	REF03	352 Description A free-form description to clarify the related data elements and their content	X AN 1/80
Not Used	REF04	C040 Reference Identifier To identify one or more reference numbers or identification numbers as	O

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			specified by the Reference Qualifier		
<b>Not Used</b>	<b>C04001</b>	<b>128</b>	<b>Reference Identification Qualifier</b>	<b>M</b>	<b>ID 2/3</b>
			Code qualifying the Reference Identification		
<b>Not Used</b>	<b>C04002</b>	<b>127</b>	<b>Reference Identification</b>	<b>M</b>	<b>AN 1/30</b>
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
<b>Not Used</b>	<b>C04003</b>	<b>128</b>	<b>Reference Identification Qualifier</b>	<b>X</b>	<b>ID 2/3</b>
			Code qualifying the Reference Identification		
<b>Not Used</b>	<b>C04004</b>	<b>127</b>	<b>Reference Identification</b>	<b>X</b>	<b>AN 1/30</b>
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
<b>Not Used</b>	<b>C04005</b>	<b>128</b>	<b>Reference Identification Qualifier</b>	<b>X</b>	<b>ID 2/3</b>
			Code qualifying the Reference Identification		
<b>Not Used</b>	<b>C04006</b>	<b>127</b>	<b>Reference Identification</b>	<b>X</b>	<b>AN 1/30</b>
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

**Segment:** **PER Administrative Communications Contact**  
**Position:** 170  
**Loop:** N1 Optional  
**Level:** Heading  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To identify a person or office to whom administrative communications should be directed

- Syntax Notes:**
- 1 If either PER03 or PER04 is present, then the other is required.
  - 2 If either PER05 or PER06 is present, then the other is required.
  - 3 If either PER07 or PER08 is present, then the other is required.

**Semantic Notes:**  
**Comments:**

**Data Element Summary**

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	PER01	366	<b>Contact Function Code</b> <b>M ID 2/2</b>
		Code identifying the major duty or responsibility of the person or group named	
		IC	Information Contact
			<i>Use to indicate the information point of contact at the location of the party transmitting the technical data.</i>
	PER02	93	<b>Name</b> <b>O AN 1/35</b>
		Free-form name	
			<i>1. Use to provide the name of the point of contact.</i>
			<i>2. Cite last name first followed by first name. If the whole name is longer than 35 characters, truncate or use initials for the first name.</i>
	PER03	365	<b>Communication Number Qualifier</b> <b>X ID 2/2</b>
		Code identifying the type of communication number	
		AU	Defense Switched Network
			Department of Defense telecommunications system and successor of the Automatic Voice Network (AUTOVON)
		EM	Electronic Mail
		FT	Federal Telecommunications System (FTS)
		FX	Facsimile
		IT	International Telephone
		TE	Telephone
			<i>Use to indicate a commercial telephone number. Include the area code.</i>

<b>PER04</b>	<b>364</b>	<b>Communication Number</b>	<b>X AN 1/80</b>
		Complete communications number including country or area code when applicable	
<b>PER05</b>	<b>365</b>	<b>Communication Number Qualifier</b>	<b>X ID 2/2</b>
		Code identifying the type of communication number	
		<i>Use to identify a second communication number for the party cited in PER02. For example, if PER03/04 cites a telephone number, PER05/06 could cite a FAX number.</i>	
		AU	Defense Switched Network Department of Defense telecommunications system and successor of the Automatic Voice Network (AUTOVON)
		EM	Electronic Mail
		EX	Telephone Extension <i>Use only if PER03 cites code TE.</i>
		FT	Federal Telecommunications System (FTS)
		FX	Facsimile
		IT	International Telephone
		TE	Telephone <i>Use to indicate a commercial telephone number. Include the area code.</i>
<b>PER06</b>	<b>364</b>	<b>Communication Number</b>	<b>X AN 1/80</b>
		Complete communications number including country or area code when applicable	
<b>PER07</b>	<b>365</b>	<b>Communication Number Qualifier</b>	<b>X ID 2/2</b>
		Code identifying the type of communication number	
		<i>Use to identify a third communication number for the party cited in PER02.</i>	
		AU	Defense Switched Network Department of Defense telecommunications system and successor of the Automatic Voice Network (AUTOVON)
		EM	Electronic Mail
		EX	Telephone Extension <i>Use only if PER05 cites code TE.</i>
		FT	Federal Telecommunications System (FTS)
		FX	Facsimile
		IT	International Telephone
		TE	Telephone <i>Use to indicate a commercial telephone number. Include the area code.</i>
<b>PER08</b>	<b>364</b>	<b>Communication Number</b>	<b>X AN 1/80</b>

Complete communications number including country or area code when applicable

**PER09**      **443**      **Contact Inquiry Reference**      **O AN 1/20**

Additional reference number or description to clarify a contact number

*Use to identify the title or office symbol of the party identified in PER02.*

**Segment:** **HL Hierarchical Level**  
**Position:** 010  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To identify dependencies among and the content of hierarchically related groups of data segments

**Syntax Notes:**

**Semantic Notes:**

- 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 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.
  - 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
  - 4 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.
  - 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

- Notes:**
1. *When transmitting multiple items that may or may not have a hierarchical relationship, repeat the HL loop as many times as required to specify all levels and use as many iterations of the HL, SPI, and REF loops as necessary.*
  2. *Each file or image transmitted in the BIN segment must be a separate HL loop.*

**Data Element Summary**

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	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	
		<i>This is a unique and progressive number assigned by the originator of the transaction set starting with the number 1 and following with whole numbers 2, 3, 4, etc.</i>	
	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	



SD	Support Document <i>Use to indicate a specification, standard, engineering change order, bill of materials, technical manual, software application, or other type of list.</i>
SH	Sheet <i>Use to indicate a drawing sheet.</i>
SL	Solicitation
SY	System A completed system typically composed of several items
U	Subassembly
ZZ	Mutually Defined <i>1. Use to indicate a miscellaneous hierarchical level that cannot be identified by use of any other listed code. When used, this is a stand alone hierarchical level, i.e., it may not be subordinate to any other hierarchical level and cannot have any subordinate hierarchical levels.</i> <i>2. This code is only used when SPI08 in the 1/SPI/020 segment is code AE.</i>

**Must Use**    **HL04**    **736**    **Hierarchical Child Code**    **O**    **ID 1/1**

Code indicating if there are hierarchical child data segments subordinate to the level being described

*1. Use to identify whether or not there are subordinate HL segments.*

*2. Use of this data element is REQUIRED.*

Refer to 003060 Data Element Dictionary for acceptable code values.

**Segment:** **SPI** Specification Identifier  
**Position:** 020  
**Loop:** SPI Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To provide a description of the included specification or technical data items  
**Syntax Notes:** 1 If either SPI02 or SPI03 is present, then the other is required.  
**Semantic Notes:**  
**Comments:**

**Notes:** *Use this segment to provide identifying reference numbers for the hierarchical level specified in the HL segment and to identify the government security classification or commercial protection level applicable to the referenced item.*

**Data Element Summary**

<b>Ref.</b>	<b>Data</b>	<b>Attributes</b>
<b>Des.</b>	<b>Element Name</b>	
<b>Must Use</b>	<b>SPI01 786 Security Level Code</b>	<b>M ID 2/2</b>
	Code indicating the level of confidentiality assigned by the sender to the information following	
	<ol style="list-style-type: none"> <li><i>When this transaction set is originated by a contractor, if the information represented by the identified hierarchical level has both a government security classification and a commercial protection requirement, this data element will carry the government security classification code and the commercial protection code will be carried in SPI09. If the item being transmitted has only one protection requirement, then this data element can carry either the government security classification code or the commercial protection code.</i></li> <li><i>When the transaction set is originated by the government, this data element may carry either the government security classification or the commercial protection requirement code, as applicable, with the government security classification code taking precedence. In this instance, SPI09 may only cite code 99, when it is necessary to indicate that data referenced in the transaction set is restricted to certified contractors.</i></li> <li><i>The identified security classification or commercial protection requirement represents the highest classification of the specified hierarchical level.</i></li> </ol>	
	06	Supplier Proprietary
	11	Competition Sensitive
	90	Government Non-Classified
	92	Government Confidential
	93	Government Secret

SPI02	128	Reference Identification Qualifier	X ID 2/3
		Code qualifying the Reference Identification	
		<i>Use to identify, by a number, an item represented by the hierarchical level specified in the preceding HL segment.</i>	
	7K	List of Materials	
		<i>1. Use to indicate a List of Materials (LOM) or a Bill of Materials (BOM) number. Identify the contractor applicable to the LOM or BOM in the 2/REF/080 segment citing either code W7 or ZZ in REF01.</i>	
		<i>2. Use when HL03 is code SD.</i>	
	7M	Frame	
		<i>1. Use to indicate a drawing sheet frame number.</i>	
		<i>2. Use when HL03 is code FR.</i>	
	7P	Sheet	
		<i>1. Use to indicate a drawing sheet number.</i>	
		<i>2. Use when HL03 is code SH.</i>	
	7Q	Engineering Change Order	
		<i>1. Use to indicate an Engineering Change Order number.</i>	
		<i>2. Use when HL03 is code SD.</i>	
	89	Assembly Number	
		Identifies specific assemblies in the manufacturing process	
		<i>Use when HL03 is code A.</i>	
	90	Subassembly Number	
		Components of assemblies	
		<i>Use when HL03 is code U.</i>	
	97	Package Number	
		A serial number indicating unit shipped	
		<i>1. Use to indicate a Technical Information Package (TIP).</i>	
		<i>2. Use when HL03 is code I.</i>	
	CT	Contract Number	
		<i>Use when HL03 is code IB.</i>	
	DD	Document Identification Code	
		<i>When HL03 is code 26 or RP, use to indicate the</i>	

		<i>number assigned to the deliverable or portion/section of the deliverable. The identifying number for an award instrument deliverable is the Exhibit Line Item Number (ELIN) that requires the deliverable. If necessary, cite the name of the deliverable in SPI04.</i>
DG	Drawing Number	<p><i>1. Use when HL03 is code DG. Identify the contractor applicable to the drawing in the 2/REF/080 segment citing either code W7 or ZZ in REF01.</i></p> <p><i>2. When used, there must be at least one 2/REF/080 segment with REF01 citing code KV.</i></p>
HF	Engineering Data List	<p><i>1. Use to indicate a Engineering Data List (EDL) number. Identify the manufacturer applicable to the EDL in the 2/REF/080 segment using code W7 or ZZ in REF01.</i></p> <p><i>2. Use when HL03 is code ED.</i></p>
IX	Item Number	<p><i>1. Use to indicate the number of a component.</i></p> <p><i>2. Use when HL03 is code F.</i></p>
KS	Solicitation	<p>A discreet number assigned by the purchasing activity to differentiate between different solicitations</p> <p><i>1. Use to indicate the solicitation technical data package number.</i></p> <p><i>2. Use when HL03 is code SL.</i></p>
MU	Military Specification (MILSPEC) Number	<i>Use when HL03 is code SD.</i>
NI	Military Standard (MIL-STD) Number	<i>Use when HL03 is code SD.</i>
NJ	Technical Document Number	<p><i>1. Use to indicate the number of a technical manual.</i></p> <p><i>2. Use when HL03 is code SD.</i></p>
S3	Specification Number	<i>1. Use to indicate a contractor specification number. Identify the contractor in the 2/REF/080</i>

					<p><i>segment using code W7 or ZZ in REF01.</i></p> <p><i>2. Use when HL03 is code SD.</i></p>
	VW	Standard			<p><i>1. Use to indicate a contractor standard number. Identify the contractor in the 2/REF/080 segment citing either code W7 or ZZ in REF01.</i></p> <p><i>2. Use when HL03 is code SD.</i></p>
	W2	Weapon System Number	Identifies a weapon system		<p><i>1. Use to indicate the number of a system.</i></p> <p><i>2. Use when HL03 is code SY.</i></p>
	WF	Locally Assigned Control Number			<p><i>Use to indicate another type of list, e.g., list of circuits that comprise a network. Use only if appropriate when HL03 is code SD. Identify the name of the list in SPI04.</i></p>
	ZS	Software Application Number			<p><i>1. Use to indicate a software application. If applicable, identify the contractor applicable to the software application in the 2/REF/080 segment citing either code W7 or ZZ in REF01.</i></p> <p><i>2. Use when HL03 is code SD.</i></p>
	ZZ	Mutually Defined			<p><i>1. Use to indicate another type of reference number not associated with any other code. When used, a number or name must be cited in SPI03. SPI04 should be used, if necessary, to further identify the referenced item.</i></p> <p><i>2. This code will typically be used when HL03 is code ZZ.</i></p>
<b>SPI03</b>	<b>127</b>	<b>Reference Identification</b>		<b>X</b>	<b>AN 1/30</b>
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
<b>SPI04</b>	<b>790</b>	<b>Entity Title</b>		<b>O</b>	<b>AN 1/132</b>
		Title of the data entity			
		<i>1. When HL03 is code ZZ, use to identify, by name, the item applicable to the hierarchical level.</i>			
		<i>2. If necessary, use to identify the noun name applicable to any item</i>			

			<i>number cited in SPI03.</i>	
Not Used	SPI05	791	<b>Entity Purpose</b>	<b>O AN 1/80</b>
			The reason for the existence of the data item specified by the electronic data item independent of its presence in an EDI transaction	
	SPI06	792	<b>Entity Status Code</b>	<b>O ID 1/1</b>
			Code indicating the current status of the data item specified by the electronic data item	
			<p><i>1. When SPI02 is code DD, use to identify the status of a deliverable or of a portion/section of the deliverable.</i></p> <p><i>2. When SPI02 is code DG, use to identify the status of a drawing, i.e., current drawing or proposed drawing.</i></p>	
		A	Approved Version	
			<p><i>1. When SPI02 is code DD use to indicate a final deliverable.</i></p> <p><i>2. When SPI02 is code DG, use to indicate a current approved drawing.</i></p>	
		J	Proposed	
			<p>A specification that has yet to be accepted or approved by both trading partners</p> <p><i>1. When SPI02 is code DD, use to indicate a draft deliverable.</i></p> <p><i>2. When SPI02 is code DG, use to indicate a proposed drawing.</i></p>	
Not Used	SPI07	353	<b>Transaction Set Purpose Code</b>	<b>O ID 2/2</b>
			Code identifying purpose of transaction set	
Not Used	SPI08	755	<b>Report Type Code</b>	<b>O ID 2/2</b>
			Code indicating the title or contents of a document, report or supporting item	
	SPI09	786	<b>Security Level Code</b>	<b>O ID 2/2</b>
			Code indicating the level of confidentiality assigned by the sender to the information following	
			<p><i>1. When the transaction set is originated by a contractor, use this data element ONLY when SPI01 is Code 92, 93, or 94 and the information also has a commercial protection requirement.</i></p> <p><i>2. The identified commercial protection level represents the highest classification of the specified hierarchical level.</i></p> <p><i>3. When the transaction set is originated by the government, this data element may cite only code 99, if applicable.</i></p>	

06	Supplier Proprietary	<i>This code is used only by a contractor.</i>
11	Competition Sensitive	<i>This code is used only by a contractor.</i>
99	Government Defined (Trading Partner Level)	<p><i>1. Use to indicate that information referenced in this transaction set is restricted to certified contractors.</i></p> <p><i>2. This code is used only by the government.</i></p>

Not Used	SPI10	559	<b>Agency Qualifier Code</b>	O	ID 2/2
			Code identifying the agency assigning the code values		
Not Used	SPI11	822	<b>Source Subqualifier</b>	O	AN 1/15
			A reference that indicates the table or text maintained by the Source Qualifier		
Not Used	SPI12	554	<b>Assigned Number</b>	O	N0 1/6
			Number assigned for differentiation within a transaction set		
Not Used	SPI13	1322	<b>Certification Type Code</b>	O	ID 1/1
			Code indicating the type of certification		
Not Used	SPI14	1401	<b>Proposal Data Detail Identifier Code</b>	O	ID 1/3
			Code identifying the basis of a cited value in a proposal		

**Segment:** **RDT** Revision Date/Time  
**Position:** 030  
**Loop:** SPI Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify the revision level of the electronic data item  
**Syntax Notes:**

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

**Semantic Notes:**

**Comments:**

**Notes:** *This segment is used to identify a revision or a version of the data item cited in SPI03. If multiple revisions or versions are being requested and they cannot be identified by use of the specific words in RDT02, use as many repetitions of the RDT segment as required to identify them.*

**Data Element Summary**

Ref.	Data			Attributes
Des.	Element	Name		
RDT01	795	Revision Level Code		O ID 1/1
			Code indicating the revision or engineering change level of the data items referred to by the specification number	
		E	Revision Level	
			<i>Use, if applicable, to indicate a revision of any document, e.g., drawing, standard, specification, etc.</i>	
		H	Version Level	
			<i>Use when SPI02 is code ZS.</i>	
RDT02	796	Revision Value		X AN 1/30
			Revision or engineering change level of the data items referred to by the specification number	
RDT03	374	Date/Time Qualifier		O ID 3/3
			Code specifying type of date or time, or both date and time	
		171	Revision	
			<i>Use to indicate the date of the revision.</i>	
		405	Production	
			Used to identify dates and times that operations or processes were performed	
			<i>When SPI02 is code HF, use to indicate the preparation date of an EDL.</i>	
		824	Version	
			<i>Use to indicate the date of the version.</i>	

841P Specifications/Technical Information (Provide Technical Information)

	<b>RDT04</b>	<b>373</b>	<b>Date</b> Date (YYMMDD)	<b>X</b>	<b>DT 6/6</b>
<b>Not Used</b>	<b>RDT05</b>	<b>337</b>	<b>Time</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	<b>X</b>	<b>TM 4/8</b>
<b>Not Used</b>	<b>RDT06</b>	<b>623</b>	<b>Time Code</b> Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	<b>O</b>	<b>ID 2/2</b>

**Segment:** **MSG** Message Text  
**Position:** 050  
**Loop:** SPI Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To provide a free-form format that allows the transmission of text information  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:** 1 MSG02 is not related to the specific characteristics of a printer, but identifies top of page, advance a line, etc.

- Notes:**
1. *Use this segment to transmit information applicable to a specific data item.*
  2. *When transmitting an EDL, if the data item on the EDL is not available from the government, use this segment to provide that information and to identify, if known, where the item can be obtained.*
  3. *Do not use this segment to provide specifications, standards, manuals, instructions, lists, SOWs or any other type of technical information that can be provided in the BIN segment.*

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>	<b>Attributes</b>
	<b><u>Des.</u></b>	<b><u>Element</u> <u>Name</u></b>	
<b>Must Use</b>	<b>MSG01</b>	<b>933 Free-Form Message Text</b> Free-form message text	<b>M AN 1/264</b>
<b>Not Used</b>	<b>MSG02</b>	<b>934 Printer Carriage Control Code</b> A field to be used for the control of the line feed of the receiving printer	<b>O ID 2/2</b>

**Segment:** **REF** Reference Identification

**Position:** 080  
**Loop:** REF Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To specify identifying information

- Syntax Notes:**
- 1 At least one of REF02 or REF03 is required.
  - 2 If either C04003 or C04004 is present, then the other is required.
  - 3 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** 1 REF04 contains data relating to the value cited in REF02.

**Comments:**

- Notes:**
1. Use to identify reference numbers applicable to the item specified in SPI02/03.
  2. When SPI02 is code DG, use of this segment is **REQUIRED** with REF01 citing code KV.

**Data Element Summary**

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	REF01	128	Reference Identification Qualifier
			M ID 2/3
			Code qualifying the Reference Identification
		2M	Federal Communications Commission (FCC) Identifier <i>Use to indicate a circuit number.</i>
		7S	Drawing Type <i>Use to indicate a type of drawing, e.g., assembly, interpretation, installation, etc. Identify the type of drawing in REF03</i>
		C7	Contract Line Item Number <i>Use to indicate a line item in either a contract or a solicitation.</i>
		F3	Submission Number A unique number assigned to the submitted transaction set; this number is used by the payer to track every file submitted <i>When SPI02 is code DD, use to indicate the submission number of the deliverable, e.g., 1, 2, 3, etc., if applicable.</i>
		GO	Exhibit Identifier <i>When SPI02 is code DD, use to indicate the exhibit letter to which the deliverable applies.</i>
		KV	Distribution Statement Code <i>Use to indicate the Distribution Statement Code</i>

					<i>that is required on all drawings.</i>
		L6	Subcontract Line Item Number		
			A further subdivision of a contract line item number		
			<i>Use to indicate a sub line item in either a contract or a solicitation.</i>		
		NS	National Stock Number		
		QZ	Reference Drawing Number		
			<i>Use to indicate the reference number found on an Engineering Data List (EDL).</i>		
		W7	Commercial and Government Entity (CAGE) Code		
			Code that identifies a commercial contractor authorized to do business with the U.S. Government		
			<i>When SPI02 is code 7K, DG, S3, VW, or ZS, use to indicate the CAGE code of the manufacturer applicable to the document.</i>		
		ZZ	Mutually Defined		
			<i>When SPI02 is code 7K, DG, S3, VW, or ZS, use to indicate the DUNS number of the manufacturer applicable to the document.</i>		
	<b>REF02</b>	<b>127</b>	<b>Reference Identification</b>	<b>X</b>	<b>AN 1/30</b>
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
	<b>REF03</b>	<b>352</b>	<b>Description</b>	<b>X</b>	<b>AN 1/80</b>
			A free-form description to clarify the related data elements and their content		
			<i>When REF01 is code 7S, use to identify the type of drawing.</i>		
<b>Not Used</b>	<b>REF04</b>	<b>C040</b>	<b>Reference Identifier</b>	<b>O</b>	
			To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier		
<b>Not Used</b>	<b>C04001</b>	<b>128</b>	<b>Reference Identification Qualifier</b>	<b>M</b>	<b>ID 2/3</b>
			Code qualifying the Reference Identification		
<b>Not Used</b>	<b>C04002</b>	<b>127</b>	<b>Reference Identification</b>	<b>M</b>	<b>AN 1/30</b>
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
<b>Not Used</b>	<b>C04003</b>	<b>128</b>	<b>Reference Identification Qualifier</b>	<b>X</b>	<b>ID 2/3</b>
			Code qualifying the Reference Identification		
<b>Not Used</b>	<b>C04004</b>	<b>127</b>	<b>Reference Identification</b>	<b>X</b>	<b>AN 1/30</b>
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
<b>Not Used</b>	<b>C04005</b>	<b>128</b>	<b>Reference Identification Qualifier</b>	<b>X</b>	<b>ID 2/3</b>
			Code qualifying the Reference Identification		
<b>Not Used</b>	<b>C04006</b>	<b>127</b>	<b>Reference Identification</b>	<b>X</b>	<b>AN 1/30</b>

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

**Segment:** **EFI** Electronic Format Identification

**Position:** 140

**Loop:** EFI Optional

**Level:** Detail

**Usage:** Optional

**Max Use:** 1

**Purpose:** To provide basic information about the electronic format of the interchange data

- Syntax Notes:**
- 1 If EFI05 is present, then EFI04 is required.
  - 2 If EFI07 is present, then EFI06 is required.
  - 3 If EFI09 is present, then EFI08 is required.
  - 4 If either EFI15 or EFI16 is present, then the other is required.

**Semantic Notes:**

**Comments:**

**Notes:** *Use this segment to provide information applicable to data being transmitted in the BIN segment or to identify the media and format in which a document is available.*

**Data Element Summary**

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
Must Use	EFI01	786	Security Level Code	M ID 2/2
			Code indicating the level of confidentiality assigned by the sender to the information following	
			<i>1. The security level code specified here relates to the specific binary data provided in the BIN segment.</i>	
			<i>2. The security code provided for the binary data being transmitted in the BIN segment is the highest protection level assigned to the data. If the data have both a government security classification and a commercial security protection requirement, the government security classification takes precedence and shall be provided in this data element.</i>	
			06 Supplier Proprietary	
			11 Competition Sensitive	
			90 Government Non-Classified	
			92 Government Confidential	
			93 Government Secret	
			94 Government Top Secret	
	EFI02	933	Free-Form Message Text	O AN 1/264
			Free-form message text	
			<i>1. When an Engineering Data List (EDL) is being provided within the transaction set, use to identify the media in which the data identified on the EDL is available. Use only the following words:</i>	
			<i>CARD to indicate data is only available on an aperture card</i>	

			<p><b>DIGIT</b> to indicate the data is available as a digital file that can be provided on a CD-ROM or transmitted over the DoD network architecture</p> <p><b>PAPER</b> to indicate the data is only available in hard copy form</p> <p>2. When identifying the media in which data is being provided, use only the following words:</p> <p><b>NET</b> to indicate transmission via the DoD network architecture</p> <p><b>CD-ROM</b> to indicate data provided on CD-ROM and delivered by mail</p> <p><b>CARD</b> to indicate an aperture card is being provided by mail</p> <p><b>PAPER</b> to indicate the data is being provided in hard copy form</p>								
Not Used	EFI03	797	<p><b>Security Technique Code</b> <span style="float:right">O ID 2/2</span></p> <p>Code indicating that this element will be used to tell an EDI translator program which security technique to use</p>								
	EFI04	799	<p><b>Version Identifier</b> <span style="float:right">X AN 1/30</span></p> <p>Revision level of a particular format, program, technique or algorithm</p> <p><i>Use to specify the version, e.g., 2.0, 3.2, etc., of the program being used to create the data transmitted in the following BIN segment. This data element pertains to the program identifier specified in EFI05.</i></p>								
	EFI05	802	<p><b>Program Identifier</b> <span style="float:right">O AN 1/30</span></p> <p>Identifies the name of the software program from which the technical data originates</p> <p><i>Use to specify the application software program used to create the data being transmitted in the following BIN segment, e.g., TruckCad, Class8Cad, etc.</i></p>								
	EFI06	799	<p><b>Version Identifier</b> <span style="float:right">X AN 1/30</span></p> <p>Revision level of a particular format, program, technique or algorithm</p> <p><i>Use to identify the specific version of the interchange standard used to transmit the data in the following BIN segment. This data element pertains to the interchange format specified in EFI07.</i></p>								
	EFI07	801	<p><b>Interchange Format</b> <span style="float:right">O AN 1/30</span></p> <p>Industry or proprietary standard used to identify the format of the data</p> <p><i>Use to identify the format in which the item is available or is being transmitted. When the data format is one of the formats in the following list, use the associated code. Other values may be used only if mutually agreed between the trading partners.</i></p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align:left">CODE</th> <th style="text-align:left">FORMAT</th> </tr> </thead> <tbody> <tr> <td>ANSI</td> <td>ANSI Text - (entire ANSI character set))</td> </tr> <tr> <td>ASCII</td> <td>ASCII TEXT - (letters and numerals only)</td> </tr> <tr> <td>BMP</td> <td>Windows Bitmap</td> </tr> </tbody> </table>	CODE	FORMAT	ANSI	ANSI Text - (entire ANSI character set))	ASCII	ASCII TEXT - (letters and numerals only)	BMP	Windows Bitmap
CODE	FORMAT										
ANSI	ANSI Text - (entire ANSI character set))										
ASCII	ASCII TEXT - (letters and numerals only)										
BMP	Windows Bitmap										

<b>C4</b>	<b><i>JEDMICS proprietary format</i></b>
<b>dBASE</b>	<b><i>Borland dBASE</i></b>
<b>EXCEL</b>	<b><i>Microsoft Excel</i></b>
<b>GIF</b>	<b><i>Graphics Interchange Format</i></b>
<b>Harvard</b>	<b><i>Software Publishing Company Harvard Graphics</i></b>
<b>HTML</b>	<b><i>HyperText Markup Language</i></b>
<b>ISO-10918</b>	<b><i>Joint Photographics Expert Group (JPEG) - Lossy compression of photographic images</i></b>
<b>KODAK</b>	<b><i>Kodak Photo-CD format</i></b>
<b>LOTUS</b>	<b><i>Lotus 123</i></b>
<b>MAC</b>	<b><i>MacIntosh Apple Application Program</i></b>
<b>MSDOS</b>	<b><i>Microsoft DOS Application Program</i></b>
<b>MIL-D-28000</b>	<b><i>IGES format</i></b>
<b>MIL-R-28001</b>	<b><i>SGML</i></b>
<b>MIL-R-28002</b>	<b><i>CALS/Raster format</i></b>
<b>MIL-D-28003</b>	<b><i>Computer Graphics Metafile (CGM)</i></b>
<b>ISO-11172</b>	<b><i>Motion Pictures Experts Group (MPEG) - Lossy compression of video</i></b>
<b>PDES</b>	<b><i>Product Data Exchange Standard - STEP</i></b>
<b>PDF</b>	<b><i>Adobe Portable Document Format</i></b>
<b>PPOINT</b>	<b><i>Microsoft Powerpoint</i></b>
<b>PROJECT</b>	<b><i>Microsoft Project</i></b>
<b>RTF</b>	<b><i>Rich Text Format</i></b>
<b>TIFF</b>	<b><i>Tagged Interchange File Format</i></b>
<b>WINDOWS</b>	<b><i>Microsoft Windows Application Program</i></b>
<b>WORD</b>	<b><i>Microsoft Word</i></b>
<b>WORDP</b>	<b><i>Novell WordPerfect</i></b>

**EFI08 799 Version Identifier X AN 1/30**  
 Revision level of a particular format, program, technique or algorithm  
*Use to identify the version of the program used to compress the data transmitted in the following BIN segment. This data element pertains to the compression technique program specified in EFI09.*

**EFI09 800 Compression Technique O AN 1/30**  
 Identifies the digital data compression means and the type  
*Use to identify the compression method, if any, applied to the data transmitted in the following BIN segment. Examples include TR, Moyer, Fish, PKZIP, etc.*

**EFI10 789 Drawing Sheet Size Code O AN 2/2**  
 Code indicating the drawing size and orientation of a technical drawing as specified and described in the current version of standards ANSI Y14.1 and ISO 5457 (E); see the listed ANSI and ISO standards for the maximum lengths for rolled sheets \*  
*1. Use to specify the drawing sheet size.*

**2. Use any code.**

Refer to 003060 Data Element Dictionary for acceptable code values.

	<b>EFI11</b>	<b>803</b>	<b>File Name</b>	<b>O AN 1/64</b>
			Name assigned or declared for a file or used by a program to identify a file; exact format of the name depends on the computer operating system being used; name also may be known as the file's "data set name"	
			<i>Format of the file name must conform to ISO 9660 standard, i.e., 8.3 format (8 character file name followed by a 3 character extension with the dot passed. Leading spaces are not passed).</i>	
<b>Not Used</b>	<b>EFI12</b>	<b>804</b>	<b>Block Type</b>	<b>O AN 1/4</b>
			Organization of a data block such as fixed length, variable length, spanned, etc. Synonym for "data format"	
	<b>EFI13</b>	<b>787</b>	<b>Record Length</b>	<b>O N 1/15</b>
			Quantity of characters or bytes in a record. Synonyms are "logical record length" and "record size"	
			<i>Use to identify the size of a file.</i>	
<b>Not Used</b>	<b>EFI14</b>	<b>788</b>	<b>Block Length</b>	<b>O N 1/5</b>
			Quantity of data elements in a block, usually specified in units such as records, words or characters; synonym for "block size"	
<b>Not Used</b>	<b>EFI15</b>	<b>799</b>	<b>Version Identifier</b>	<b>X AN 1/30</b>
			Revision level of a particular format, program, technique or algorithm	
<b>Not Used</b>	<b>EFI16</b>	<b>1570</b>	<b>Filter ID Code</b>	<b>X ID 3/3</b>
			Code specifying the type of filter used to convert data code values	

**Segment:** **BIN** Binary Data  
**Position:** 160  
**Loop:** EFI Optional  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To transfer binary data in a single data segment and allow identification of the end of the data segment through a count; there is no identification of the internal structure of the binary data in this segment

**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>	<b>Attributes</b>
	<b>Des.</b>	<b>Element Name</b>	
Must Use	BIN01	784 Length of Binary Data	M N0 1/15
		The length in integral octets of the binary data	
		<i>When SPI02 is code HF, cite the number one (1) to comply with the mandatory nature of this data element.</i>	
Must Use	BIN02	785 Binary Data	M B 1/*N/A*
		A string of octets which can assume any binary pattern from hexadecimal 00 to FF	
		<i>When SPI02 is code HF, cite the number zero (0) to comply with the mandatory nature of this data element.</i>	

**Segment:** **SE** Transaction Set Trailer  
**Position:** 010  
**Loop:**  
**Level:** Summary  
**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)  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:** 1 SE is the last segment of each transaction set.

**Data Element Summary**

	<b>Ref. Des.</b>	<b>Data</b>		<b>Attributes</b>
		<b>Element</b>	<b>Name</b>	
<b>Must Use</b>	<b>SE01</b>	<b>96</b>	<b>Number of Included Segments</b>	<b>M N0 1/10</b>
			Total number of segments included in a transaction set including ST and SE segments	
<b>Must Use</b>	<b>SE02</b>	<b>329</b>	<b>Transaction Set Control Number</b>	<b>M AN 4/9</b>
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	
			<i>Cite the same number carried in ST02.</i>	