810 Invoice

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Invoice Transaction Set (810) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the billing for goods and services provided.

Notes:

John Deere Business Process Note:
810 Business process narrative - Deere as the customer

The transaction is used to receive invoice information from a supplier for materials or services provided to a Deere location.   The Purchase Order number must be referenced within the transaction, either at the header level (applies to all items on the invoice) or at the detail line item level.

In addition to the invoice data such as part number, quantity and pricing information, Deere expects to receive any special charges or container charges in the electronic invoice as appropriate.

This transaction is not used if the invoice data is entered to the customer accounts payable system via the ERS (Evaluated Receipts Settlements) process.   However, even with ERS, there are conditions where an EDI invoice may be used to handle special or occasional charges.

If an error is detected during the process of loading the invoice data to Deere accounts payable applications, an 824 transaction is returned to the supplier in response to act upon.

Those Deere units using SAP application where the PO does not contain a Deere part number, requires a PO line number be returned in the invoice to allow correct processing through the entire payment approval process.

Heading:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
3	010	ST	Transaction Set Header	M	1		
4	020	BIG	Beginning Segment for Invoice	M	1		
5	040	CUR	Currency	O	1		
6	050	REF	Reference Identification	O	12		
7	140	DTM	Date/Time Reference	O	10		

Detail:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - IT1			200000	
8	010	IT1	Baseline Item Data (Invoice)	O	1		
11	030	IT3	Additional Item Data	O	5		
12	120	REF	Reference Identification	O	>1		
13	150	DTM	Date/Time Reference	O	10		
			LOOP ID - SAC			25	
14	180	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
			LOOP ID - SLN			1000	

| 16 | 200 | SLN | Subline Item Detail | O | 1 | | |

Summary:

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
18	010	TDS	Total Monetary Value Summary	M	1		
19	020	TXI	Tax Information	O	10		
			LOOP ID - SAC			25	
20	040	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
23	070	CTT	Transaction Totals	O	1		n1
24	080	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used, hash total (CTT02) is the sum of the value of quantities invoiced (IT102) for each IT1 segment.

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) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).	
Comments:				

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Data Element Summary

</div>

	Ref. Des.	Data Element	Name	Attributes	
M	ST01	143	**Transaction Set Identifier Code**	M	ID 3/3
			Code uniquely identifying a Transaction Set		
			810 Invoice		
M	ST02	329	**Transaction Set Control Number**	M	AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		

Segment:	**BIG** Beginning Segment for Invoice			
Position:	020			
Loop:				
Level:	Heading			
Usage:	Mandatory			
Max Use:	1			
Purpose:	To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates			
Syntax Notes:				
Semantic Notes:	1 BIG01 is the invoice issue date.			
	2 BIG03 is the date assigned by the purchaser to purchase order.			
	3 BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.			
Comments:	1 BIG07 is used only to further define the type of invoice when needed.			
Notes:	**John Deere Business Process Note**			

This segment indicates the invoice number from the supplier's system and the invoice date.   The invoice date or the receipt date of shipment set the payment due date based on terms.   If the purchase order is used in this segment, it applies to all line items.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**BIG01**	**373**	**Date**	**M**	**DT 8/8**
			Date expressed as CCYYMMDD		
M	**BIG02**	**76**	**Invoice Number**	**M**	**AN 1/22**
			Identifying number assigned by issuer		
			John Deere Business Partner Note:		
			John Deere will use the right most 12 characters.		
	BIG04	**324**	**Purchase Order Number**	**O**	**AN 1/22**
			Identifying number for Purchase Order assigned by the orderer/purchaser		
			John Deere Business Partner Note:		
			Use only if PO applies to all items. When IT1 segment is sent with a PO qualifier it will take precedence over this element.		

Segment:	**CUR** Currency			
Position:	040			
Loop:				
Level:	Heading			
Usage:	Optional			
Max Use:	1			
Purpose:	To specify the currency (dollars, pounds, francs, etc.) used in a transaction			

Syntax Notes:
1. If CUR08 is present, then CUR07 is required.
2. If CUR09 is present, then CUR07 is required.
3. If CUR10 is present, then at least one of CUR11 or CUR12 is required.
4. If CUR11 is present, then CUR10 is required.
5. If CUR12 is present, then CUR10 is required.
6. If CUR13 is present, then at least one of CUR14 or CUR15 is required.
7. If CUR14 is present, then CUR13 is required.
8. If CUR15 is present, then CUR13 is required.
9. If CUR16 is present, then at least one of CUR17 or CUR18 is required.
10. If CUR17 is present, then CUR16 is required.
11. If CUR18 is present, then CUR16 is required.
12. If CUR19 is present, then at least one of CUR20 or CUR21 is required.
13. If CUR20 is present, then CUR19 is required.
14. If CUR21 is present, then CUR19 is required.

Semantic Notes:

Comments: 1 See Figures Appendix for examples detailing the use of the CUR segment.

Notes: **John Deere Business Process Note**

This is an optional segment to communicate the currency of the invoice. It is assumed to be USD or US dollars, if this segment is not provided.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**CUR01**	98	**Entity Identifier Code**	**M** **ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual	
M	**CUR02**	100	**Currency Code**	**M** **ID 3/3**
			Code (Standard ISO) for country in whose currency the charges are specified	

John Deere Business Partner Note:

Example: USD - U.S. Dollars

Segment:		**REF** Reference Identification	
Position:		050	
Loop:			
Level:		Heading	
Usage:		Optional	
Max Use:		12	
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:		**John Deere Business Process Note**	

This optional segment may be included to reference a specific shipment. The "PK" qualifier indicates the packing list the receiving customer would expect to be attached to the shipment and therefore entered into the receiving system, so the invoice can be matched to a specific receipt.

If the references are sent in this position of the transaction, they apply to all line items on the invoice.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	REF01	128	Reference Identification Qualifier	M	ID 2/3

Code qualifying the Reference Identification

2I		Tracking Number

John Deere Business Partner Note:

Used only by John Deere Merchandise Division. If multiple tracking numbers exist, they are required at the detail level.

PK		Packing List Number

	Ref. Des.	Data Element	Name		Attributes
	REF02	127	Reference Identification	X	AN 1/30

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

John Deere Business Partner Note:

John Deere uses only the 13 right most characters of the Packing List Number.

Segment:		**DTM** Date/Time Reference		
Position:		140		
Loop:				
Level:		Heading		
Usage:		Optional		
Max Use:		10		
Purpose:		To specify pertinent dates and times		
Syntax Notes:		1 At least one of DTM02 DTM03 or DTM05 is required.		
		2 If DTM04 is present, then DTM03 is required.		
		3 If either DTM05 or DTM06 is present, then the other is required.		
Semantic Notes:				
Comments:				
Notes:		**John Deere Business Partner Note**		

Required only by John Deere Merchandise Division.   If the ship date is sent in this position of the transaction, the ship date applies to all line items on the invoice unless overridden at the detail level.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	DTM01	374	**Date/Time Qualifier**	M	**ID 3/3**
			Code specifying type of date or time, or both date and time		
			011 Shipped		
	DTM02	373	**Date**	X	**DT 8/8**
			Date expressed as CCYYMMDD		

		Segment:	**IT1** Baseline Item Data (Invoice)

Segment: **IT1** Baseline Item Data (Invoice)
Position: 010
Loop: IT1   Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the basic and most frequently used line item data for the invoice and related transactions
Syntax Notes:
   1 If any of IT102 IT103 or IT104 is present, then all are required.
   2 If either IT106 or IT107 is present, then the other is required.
   3 If either IT108 or IT109 is present, then the other is required.
   4 If either IT110 or IT111 is present, then the other is required.
   5 If either IT112 or IT113 is present, then the other is required.
   6 If either IT114 or IT115 is present, then the other is required.
   7 If either IT116 or IT117 is present, then the other is required.
   8 If either IT118 or IT119 is present, then the other is required.
   9 If either IT120 or IT121 is present, then the other is required.
   10 If either IT122 or IT123 is present, then the other is required.
   11 If either IT124 or IT125 is present, then the other is required.
Semantic Notes:
   1 IT101 is the purchase order line item identification.
Comments:
   1 Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
   2 IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.
Notes: **John Deere Business Partner Note**

John Deere requires.

John Deere Business Process Note

This segment contains the Deere part number being invoiced, the invoice quantity, the base price and the pricing code (i.e. price per 100 pieces), and the unit of measure. The Deere PO number will be required in this segment, if not included in the BIG segment. When the Deere PO number is included at the detail level it will override the PO number in the BIG segment when entered. The exception might be for invoices for containers or other special charges within the ERS process.

For invoice data in response to a PO that does not contain a Deere part number, the PO line number is used as the required data in order to allow correct processing through the entire payment approval process. PO line number is qualified by a code of PL.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
IT101	350	**Assigned Identification**	O	**AN 1/20**
		Alphanumeric characters assigned for differentiation within a transaction set		
IT102	358	**Quantity Invoiced**	X	**R 1/10**
		Number of units invoiced (supplier units)		
IT103	355	**Unit or Basis for Measurement Code**	X	**ID 2/2**
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken **John Deere Business Partner Note:**		
		John Deere requests that you send the unit of measure code that was sent on the order.		
IT104	212	**Unit Price**	X	**R 1/17**
		Price per unit of product, service, commodity, etc.		
IT105	639	**Basis of Unit Price Code**	O	**ID 2/2**
		Code identifying the type of unit price for an item **John Deere Business Partner Note:**		
		If not one of these codes listed, John Deere assumes price each.		

			HF	Per 100 Feet	
			HP	Price per Hundred	
			LC	Catalog Price per Hundred	
			LM	Catalog Price per Thousand	
			PE	Price per Each	
			QH	Quoted Price per Hundred	
			QS	Quoted Price per Thousand	
			RC	Retail Price per Hundred	
			RM	Retail Price per Thousand	
			TC	Contract Price per Hundred	
			TE	Contract Price per Each	
			TF	Per 1000 Feet	
			TM	Contract Price per Thousand	
			TP	Price per Thousand	
			WC	Wholesale Price per Hundred	
			WM	Wholesale Price per Thousand	

	IT106	**235**	**Product/Service ID Qualifier**		**X**	**ID 2/2**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

John Deere Business Partner Note:

John Deere requires.

		BP	Buyer's Part Number
		PL	Purchaser's Order Line Number

John Deere Business Partner Note:

If no Deere part number exists on the original PO then a qualifier of PL must be sent along with the PO line number.

		PO	Purchase Order Number
		RC	Returnable Container Number

>>	**IT107**	**234**	**Product/Service ID**		**X**	**AN 1/48**

Identifying number for a product or service

John Deere Business Partner Note:

John Deere requires a part number.

	IT108	**235**	**Product/Service ID Qualifier**		**X**	**ID 2/2**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

John Deere Business Partner Note:

John Deere requires PO at this level if not sent at the header.

		BP	Buyer's Part Number
		PL	Purchaser's Order Line Number
		PO	Purchase Order Number
		RC	Returnable Container Number

	IT109	**234**	**Product/Service ID**		**X**	**AN 1/48**

Identifying number for a product or service

	IT110	**235**	**Product/Service ID Qualifier**		**X**	**ID 2/2**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

		BP	Buyer's Part Number
		PL	Purchaser's Order Line Number
		PO	Purchase Order Number
		RC	Returnable Container Number

	IT111	**234**	**Product/Service ID**		**X**	**AN 1/48**

Identifying number for a product or service

Segment:	**IT3** Additional Item Data
Position:	030
Loop:	IT1 Optional
Level:	Detail
Usage:	Optional
Max Use:	5
Purpose:	To specify additional item details relating to variations between ordered and shipped quantities, or to specify alternate units of measures and quantities
Syntax Notes:	1 If either IT301 or IT302 is present, then the other is required.
	2 At least one of IT301 IT303 IT304 or IT305 is required.
Semantic Notes:	
Comments:	
Notes:	**John Deere Business Partner Note**

Quantity will override the quantity in the IT1 segment when present.

John Deere Business Process Note

This is an optional segment if it is required to communicate the alternate unit of measure and associated quantity for an invoice.   For example, if 20 sheets of steel are invoiced and the business arrangement requires the associated weight, IT3 is used to communicate the number of pound or kilograms.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
IT301	**382**	**Number of Units Shipped**	X	R 1/10
		Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set		
IT302	**355**	**Unit or Basis for Measurement Code**	X	ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		

			Segment:	**REF** Reference Identification

Segment: **REF** Reference Identification
Position: 120
Loop: IT1   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: **John Deere Business Partner Note**

Contact Deere unit to see if required.

John Deere Business Process Note

This optional segment may be included to reference a specific shipment for a line item. The "PK" qualifier indicates the packing list the receiving customer would have entered to the receiving system, matching the invoice to a specific receipt or only one line item (if multiple line items are included on one invoice), and overrides the data in the REF segment in the header level.

Data Element Summary

Ref. Des.	Data Element	Name		Attributes
M	**REF01**	**128**	**Reference Identification Qualifier**	**M ID 2/3**
			Code qualifying the Reference Identification	
		2I	Tracking Number	
			John Deere Business Partner Note:	
			Used only by John Deere Merchandise Division.	
		PK	Packing List Number	
	REF02	**127**	**Reference Identification**	**X AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			John Deere Business Partner Note:	
			John Deere uses only the 13 right most characters of the Packing List Number.	

Segment: **DTM** Date/Time Reference

Position:	150
Loop:	IT1 Optional
Level:	Detail
Usage:	Optional
Max Use:	10
Purpose:	To specify pertinent dates and times
Syntax Notes:	1 At least one of DTM02 DTM03 or DTM05 is required.
	2 If DTM04 is present, then DTM03 is required.
	3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:
Comments:
Notes: **John Deere Business Partner Note**

Used only by John Deere Merchandise Division. Item level ship dates override the header level or will be used as the item's actual ship date.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	DTM01	374	**Date/Time Qualifier**	M	ID 3/3
			Code specifying type of date or time, or both date and time		
			011 Shipped		
	DTM02	373	**Date**	X	DT 8/8
			Date expressed as CCYYMMDD		

Segment:		$\mathbf{SAC}$ Service, Promotion, Allowance, or Charge Information	
Position:	180		
Loop:	SAC	Optional	
Level:	Detail		
Usage:	Optional		
Max Use:	1		
Purpose:	To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge		

Syntax Notes:	1	At least one of SAC02 or SAC03 is required.
	2	If either SAC03 or SAC04 is present, then the other is required.
	3	If either SAC06 or SAC07 is present, then the other is required.
	4	If either SAC09 or SAC10 is present, then the other is required.
	5	If SAC11 is present, then SAC10 is required.
	6	If SAC13 is present, then at least one of SAC02 or SAC04 is required.
	7	If SAC14 is present, then SAC13 is required.
	8	If SAC16 is present, then SAC15 is required.
Semantic Notes:	1	If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
	2	SAC05 is the total amount for the service, promotion, allowance, or charge. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
	3	SAC08 is the allowance or charge rate per unit.
	4	SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, which is applicable to service, promotion, allowance, or charge.
	5	SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
	6	SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
	7	SAC16 is used to identify the language being used in SAC15.
Comments:	1	SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
	2	In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.
Notes:		**John Deere Business Process Note**

This optional segment is used to communicate invoice charges at the line item level for services not included in the material price in the IT1 pricing information or if the charges need to be separated from material price for invoicing.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	SAC01	248	**Allowance or Charge Indicator**	**M**	**ID 1/1**
			Code which indicates an allowance or charge for the service specified		
			A Allowance		
			C Charge		
	SAC02	1300	**Service, Promotion, Allowance, or Charge Code**	**X**	**ID 4/4**
			Code identifying the service, promotion, allowance, or charge		
			B320 Competitive Allowance		
			E820 Non-returnable Containers		
			F150 Packaging Service		
			F550 Premium Charge		
			G760 Set-up		
			H550 Surcharge		
			I530 Volume Discount		

SAC05   **610**   **Amount**   **O**   **N2 1/15**
Monetary amount

Segment:		**SLN** Subline Item Detail		

Segment: **SLN** Subline Item Detail

Position:	200
Loop:	SLN Optional
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify product subline detail item data

Syntax Notes:	1	If either SLN04 or SLN05 is present, then the other is required.
	2	If SLN07 is present, then SLN06 is required.
	3	If SLN08 is present, then SLN06 is required.
	4	If either SLN09 or SLN10 is present, then the other is required.
	5	If either SLN11 or SLN12 is present, then the other is required.
	6	If either SLN13 or SLN14 is present, then the other is required.
	7	If either SLN15 or SLN16 is present, then the other is required.
	8	If either SLN17 or SLN18 is present, then the other is required.
	9	If either SLN19 or SLN20 is present, then the other is required.
	10	If either SLN21 or SLN22 is present, then the other is required.
	11	If either SLN23 or SLN24 is present, then the other is required.
	12	If either SLN25 or SLN26 is present, then the other is required.
	13	If either SLN27 or SLN28 is present, then the other is required.

Semantic Notes:	1	SLN01 is the identifying number for the subline item.
	2	SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
	3	SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
	4	SLN08 is a code indicating the relationship of the price or amount to the associated segment.

Comments:	1	See the Data Element Dictionary for a complete list of IDs.
	2	SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
	3	SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes: **John Deere Business Process Note**

BPN: Deere uses this segment for communicating configurable options on a base machine identified at the line-item. Quantities, part number and descriptions will always be sent. Option pricing may be included in this segment, but the item price is inclusive of these costs.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	SLN01	350	**Assigned Identification**	M	**AN 1/20**
			Alphanumeric characters assigned for differentiation within a transaction set		
	SLN02	350	**Assigned Identification**	O	**AN 1/20**
			Alphanumeric characters assigned for differentiation within a transaction set		
M	SLN03	662	**Relationship Code**	M	**ID 1/1**
			Code indicating the relationship between entities		
			A Add		
	SLN04	380	**Quantity**	X	**R 1/15**
			Numeric value of quantity		
	SLN05	C001	**Composite Unit of Measure**	X	
			To identify a composite unit of measure (See Figures Appendix for examples of use)		
M	C00101	355	**Unit or Basis for Measurement Code**	M	**ID 2/2**
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.		

SLN06	**212**	**Unit Price**	**X**	**R 1/17**

Price per unit of product, service, commodity, etc.

SLN07	**639**	**Basis of Unit Price Code**	**O**	**ID 2/2**

Code identifying the type of unit price for an item

Refer to 004010 Data Element Dictionary for acceptable code values.

SLN08	**662**	**Relationship Code**	**O**	**ID 1/1**

Code indicating the relationship between entities

    I   Included

SLN09	**235**	**Product/Service ID Qualifier**	**X**	**ID 2/2**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

    BP   Buyer's Part Number

    PD   Part Number Description

SLN10	**234**	**Product/Service ID**	**X**	**AN 1/48**

Identifying number for a product or service

SLN11	**235**	**Product/Service ID Qualifier**	**X**	**ID 2/2**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

    BP   Buyer's Part Number

    PD   Part Number Description

SLN12	**234**	**Product/Service ID**	**X**	**AN 1/48**

Identifying number for a product or service

Segment:	**TDS** Total Monetary Value Summary			
Position:	010			
Loop:				
Level:	Summary			
Usage:	Mandatory			
Max Use:	1			
Purpose:	To specify the total invoice discounts and amounts			
Syntax Notes:				
Semantic Notes:	1	TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).		
	2	TDS02 indicates the amount upon which the terms discount amount is calculated.		
	3	TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).		
	4	TDS04 indicates the total amount of terms discount.		
Comments:	1	TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.		
Notes:	**John Deere Business Partner Note**			

Total invoice amount is required, including total discounts if applicable.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	TDS01	610	**Amount**	M N2 1/15
			Monetary amount	

	Segment:	**TXI** Tax Information
	Position:	020
	Loop:	
	Level:	Summary
	Usage:	Optional
	Max Use:	10
	Purpose:	To specify tax information
	Syntax Notes:	1 At least one of TXI02 TXI03 or TXI06 is required.
		2 If either TXI04 or TXI05 is present, then the other is required.
		3 If TXI08 is present, then TXI03 is required.
	Semantic Notes:	1 TXI02 is the monetary amount of the tax.
		2 TXI03 is the tax percent expressed as a decimal.
		3 TXI07 is a code indicating the relationship of the price or amount to the associated segment.
	Comments:	
	Notes:	**John Deere Business Process Note**

This is an optional segment to separate tax charges when appropriate.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	**TXI01**	**963**	**Tax Type Code**	**M**	**ID 2/2**

Code specifying the type of tax

GS	Goods and Services Tax	
	Canadian value-added tax	
PG	State or Provincial Tax on Goods	
PS	State or Provincial Tax on Services	
VA	Value Added Tax	

John Deere Business Partner Note:

John Deere uses this code to designate European VAT tax declarations.

	Ref. Des.	Data Element	Name		Attributes
	TXI02	**782**	**Monetary Amount**	**X**	**R 1/18**

Monetary amount

	TXI03	**954**	**Percent**	**X**	**R 1/10**

Percentage expressed as a decimal

	TXI04	**955**	**Tax Jurisdiction Code Qualifier**	**X**	**ID 2/2**

Code identifying the source of the data used in tax jurisdiction code

VD	Vendor defined	

	TXI05	**956**	**Tax Jurisdiction Code**	**X**	**AN 1/10**

Code identifying the taxing jurisdiction

Segment:		**SAC** Service, Promotion, Allowance, or Charge Information		

Segment: SAC Service, Promotion, Allowance, or Charge Information
Position: 040
Loop: SAC   Optional
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge
Syntax Notes:
1   At least one of SAC02 or SAC03 is required.
2   If either SAC03 or SAC04 is present, then the other is required.
3   If either SAC06 or SAC07 is present, then the other is required.
4   If either SAC09 or SAC10 is present, then the other is required.
5   If SAC11 is present, then SAC10 is required.
6   If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7   If SAC14 is present, then SAC13 is required.
8   If SAC16 is present, then SAC15 is required.
Semantic Notes:
1   If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2   SAC05 is the total amount for the service, promotion, allowance, or charge.
     If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
3   SAC08 is the allowance or charge rate per unit.
4   SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
     SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, which is applicable to service, promotion, allowance, or charge.
5   SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
6   SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
7   SAC16 is used to identify the language being used in SAC15.
Comments:
1   SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
2   In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.
Notes: **John Deere Business Process Note**

This optional segment is used to communicate summary level charges, which apply to the entire invoice versus a line item (material/part number). Examples of charges at this level include special freight or surcharges.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	SAC01	248	**Allowance or Charge Indicator**	M	ID 1/1
			Code which indicates an allowance or charge for the service specified		
			A Allowance		
			C Charge		
>>	SAC02	1300	**Service, Promotion, Allowance, or Charge Code**	X	ID 4/4
			Code identifying the service, promotion, allowance, or charge		
			C040 Delivery		
			D180 Freight Based on Dollar Minimum		
			D190 Freight Charges to Border		
			D200 Freight Charges to Destination		
			D210 Freight Equalization		
			D240 Freight		
			D500 Handling		

		D980	Insurance		
		G760	Set-up		
		G830	Shipping and Handling		
		H090	Special Handling		
		H550	Surcharge		
		H680	Tax - Governmental		
		H700	Tax - Local Tax		
		H750	Tax - Sales Tax (State and Local)		
		H770	Tax - State Tax		
		H840	Tax on Transportation		
		H850	Tax		
		I250	Transportation Charge (Minimum Rate)		
		I260	Transportation Direct Billing		
		I270	Transportation Third Party Billing		
		I280	Transportation Vendor Provided		

>>	**SAC05**	610	**Amount**		**O**	**N2 1/15**
			Monetary amount			
	SAC12	331	**Allowance or Charge Method of Handling Code**		**O**	**ID 2/2**

Code indicating method of handling for an allowance or charge

01	Bill Back
02	Off Invoice
03	Vendor Check to Customer
04	Credit Customer Account
05	Charge to be Paid by Vendor
06	Charge to be Paid by Customer
07	Optional
08	Off Gross Quantity Invoiced
09	Allowance To Be Issued by Vendor
	Code designating vendor as the issuer of an allowance
10	Allowance To Be Issued by Reseller
	Code designating reseller as the issuer of an allowance
11	Charge Denied by Vendor
	Vendor will not allow charge requested
12	Cancel Allowance
13	Provide Amount
	To enable a shipper to request the forwarder to provide the amount of the specified allowance or charge
15	Information Only
	When this code is used, the allowance or charge amounts are not to be added or subtracted from the transaction; the data is being provided for information purposes only
18	Non-Payable Tax
20	Accrual Fund
21	Flat Fund
25	Cash in Advance
CA	Calculate and Add to Invoice
	Value of allowance or charge is to be calculated by recipient and added to invoice total
CC	Collect
PP	Prepaid
ZZ	Mutually Defined

	SAC15	352	**Description**		**X**	**AN 1/80**

A free-form description to clarify the related data elements and their content

Segment:	**CTT** Transaction Totals			
Position:	070			
Loop:				
Level:	Summary			
Usage:	Optional			
Max Use:	1			
Purpose:	To transmit a hash total for a specific element in the transaction set			
Syntax Notes:	**1**	If either CTT03 or CTT04 is present, then the other is required.		
	2	If either CTT05 or CTT06 is present, then the other is required.		
Semantic Notes:				
Comments:	**1**	This segment is intended to provide hash totals to validate transaction completeness and correctness.		
Notes:	**John Deere Business Partner Note**			
	John Deere requires CTT segment.			

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**CTT01**	**354**	**Number of Line Items**	**M N0 1/6**
			Total number of line items in the transaction set	

Segment:	**SE** Transaction Set Trailer			
Position:	080			
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

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

John Deere Guideline for EDI 810 Invoice

Based on AIAG Implementation Guideline - Version 4010
Sample EDI Transmission

```
ISA*00* *00* *01*305678132 *01*149825353 *100518*1437*U*00401*000000037*0*P*>
GS*IN*305678132*149825353*20100518*1437*37*X*004010
ST*810*0037
BIG*20100518*4500034567
CUR*BY*USD
REF*PK*57233
IT1**320*EA*66.7700*TC*BP*AH137778*PO*4500034776
IT1**440*EA*65.4200*TC*BP*RE67893*PO*4500034567
IT1**480*EA*12.3200*TC*BP*AM010622*PO*4500034442
IT1**1*EA*8.00**RC*JDF
TDS*57167
SAC*C*D240***302
CTT*4
SE*12*0037
ST*810*0038
BIG*20100515*404226**4500034318
REF*PK*57234
IT1**26487*01*21.3500*QH*BP*1057528310
IT3*9.0*PC
SAC*C*G760***2500
TDS*568197
TXI*GS*2.00
CTT*1
SE*10*0038
ST*810*0039
BIG*20100517*404227**4500094011
IT1**1*EA*3999.11**PL*00010
TDS*399911
CTT*1
SE*6*0039
GE*3*37
IEA*1*000000037
```