

2.0 Toyota EDI Technical Specifications

2.1 810 Accounts Receivable Detail List

INFORMATION TMM REQUIRES FROM TRADING PARTNER

SCOPE THIS INFORMATION INCLUDES START-UP INFORMATION SPECIFIC TO TRADING PARTNER.

APPROACH THE FOLLOWING INFORMATION WILL BE REQUIRED BEFORE THE TRADING PARTNER CAN COMPLETE CERTIFICATION TO EXCHANGE INFORMATION WITH TMM.

1. PRIMARY CONTACT NAME, ADDRESS & TELEPHONE NUMBER, & FAX NUMBER.
2. ALTERNATE CONTACT NAME, ADDRESS & TELEPHONE NUMBER, & FAX NUMBER.
3. PLANT NAME, ADDRESS, TMM'S SUPPLIER NUMBER & DUNS NUMBER.
4. CONFIRM START-UP DATE.

DATA REQUIREMENTS

MISCELLANEOUS	STANDARD: ANSI X12 - AIAG VERSION: 004010
EDI ACKNOWLEDGMENT	FUNCTIONAL ACKNOWLEDGMENT - 997 WILL BE SENT WITHIN 24 HOURS OF PROCESSING THE DOCUMENT. EVERY TRADING PARTNER MUST PICK UP THEIR ACKNOWLEDGMENTS.
DOCUMENTATION CHANGES	TMM WILL GIVE TRADING PARTNERS A MINIMUM OF FOUR WEEKS NOTICE BEFORE IMPLEMENTING FORMAT CHANGES.
SEPARATORS	SEGMENT : '\$' ELEMENT : '*' SUB-ELEMENT : '#'
WRAPPED	ALL DATA WILL BE TRANSMITTED / RECEIVED IN AN 80 BYTE RECORD LENGTH.
DATA FREQUENCY	DAILY
TRANSMITTING INSTRUCTIONS	ALL ELECTRONIC INVOICES (810) ARE EXPECTED WITHIN 24 HOURS OF SHIPMENT
VALUE ADDED NETWORK (VAN)	STERLING INFORMATION BROKER DIVISION OF SBC 4600 LAKEHURST CT. P.O. BOX 7160 COLUMBUS, OH. 43017-0760 CONTACT: 877-432-4300

HOW TO BECOME CERTIFIED

SCOPE: BEFORE A TRADING PARTNER CAN DO PRODUCTION EDI WITH TMM, THEY MUST BE CERTIFIED, THAT IS COMPATIBLE WITH TMM'S EDI ENVIRONMENT.

APPROACH: EVERY TRADING PARTNER MUST SHOW COMPATIBILITY WITH TMM'S:

1. NETWORK
2. COMMUNICATION SOFTWARE
3. DATA FORMAT

CERTIFICATION IS FORMALLY COMPLETED WHEN TOYOTA HAS COMPLETED ALL NETWORK AND TRANSACTION TESTING.

TRANSACTION TESTING WILL NOT BE COMPLETE UNTIL EACH SUPPLIER COMPLETES PARALLEL TESTING WITH TMM INVOLVING SENDING IN THE CURRENT METHOD ARDL (DISKETTE) AND THE DATA VIA EDI.

THE LENGTH OF THE PARALLEL TESTING WILL BE DETERMINED BY TMM.

GENERAL INFORMATION AND PROBLEM REPORTING

SCOPE: INCLUDES TRADING PARTNERS PROBLEMS AND INQUIRIES CONCERNING TMM'S MAILBOX, NETWORK, OR DATA FORMAT.

EDI SYSTEMS & NETWORK CONTROL

QUESTIONS DURING TESTING & CERTIFICATION

PLEASE CONTACT: 877-401-7374 + APPROPRIATE
OPTION #

ALL OTHER CUSTOMER SUPPORT QUESTIONS:

PLEASE CONTACT: 502-868-4357

810 Invoice Layout

Functional Group=IN

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.

X12 ANSI REQUIREMENTS Ver. 4010							TOYOTA REQ
<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
	ISA	Interchange Control Header	M	1			Must use
	GS	Functional Group Header	M	1			Must use

Heading:

X12 ANSI REQUIREMENTS Ver. 4010							TOYOTA REQ
<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Must Use
020	BIG	Beginning Segment for Invoice	M	1			Must Use

Detail:

X12 ANSI REQUIREMENTS Ver. 4010							TOYOTA REQ
<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
	<u>LOOP ID - IT1</u>				<u>200000</u>		
010	IT1	Baseline Item Data (Invoice)	M	1			Must Use
120	REF	Reference Identification	M	>1			Must Use
150	DTM	Date/Time Reference	M	1			Must Use

Summary:

X12 ANSI REQUIREMENTS Ver. 4010							TOYOTA REQ
<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	TDS	Total Monetary Value Summary	M	1			Must Use
070	CTT	Transaction Totals	O	1		N3/070	Must Use
080	SE	Transaction Set Trailer	M	1			Must Use
	GE	Functional Group Trailer	M	1			Must Use
	IEA	Interchange Control Trailer	M	1			Must Use

Notes:

3/070 Number of line items (CTT01) is the accumulation of the number of IT1 segments.

ISA - Interchange Control Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 16

User Option(Usage): Must use

To start and identify an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

X12 ANSI REQUIREMENTS Ver. 4010						TOYOTA REQ
Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA01	I01	Authorization Information Qualifier Description: Code to identify the type of information in the Authorization Information Only Send Code 00	M	ID	2/2	Must use
ISA02	I02	Authorization Information Description: Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01) Only Send Senders Name	M	AN	10/10	Must use
ISA03	I03	Security Information Qualifier Description: Code to identify the type of information in the Security Information Only Send Code - 01	M	ID	2/2	Must use
ISA04	I04	Security Information Description: This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03) Sender Duns #	M	AN	10/10	Must use
ISA05	I05	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified Typically Send Code ZZ	M	ID	2/2	Must use
ISA06	I06	Interchange Sender ID Description: Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element Typically Send DUNS - Supplier Code (i.e. 123456789-12345)	M	AN	15/15	Must use
ISA07	I05	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified Only Send Code 01	M	ID	2/2	Must use
ISA08	I07	Interchange Receiver ID Description: Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them Refer To Note 1	M	AN	15/15	Must use
X12 ANSI REQUIREMENTS Ver. 4010						TOYOTA REQ.
Ref	Id	Element Name	Req	Type	Min/Max	Usage

ISA09	I08	Interchange Date Description: Date of the interchange	M	DT	6/6	Must use
ISA10	I09	Interchange Time Description: Time of the interchange	M	TM	4/4	Must use
ISA11	I10	Interchange Control Standards Identifier Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer	M	ID	1/1	Must use
ISA12	I11	Interchange Control Version Number Description: Code specifying the version number of the interchange control segments	M	ID	5/5	Must use
ISA13	I12	Interchange Control Number Description: A control number assigned by the interchange sender	M	N0	9/9	Must use
ISA14	I13	Acknowledgment Requested Description: Code sent by the sender to request an interchange acknowledgment (TA1)	M	ID	1/1	Must use
ISA15	I14	Usage Indicator Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information	M	ID	1/1	Must use
ISA16	I15	Component Element Separator Description: Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator	M	ID	1/1	Must use

Notes:

- Valid Codes are:
TMM'S DUNS NUMBER:

961659588	-	TEMA
107978962	-	TMMAL
821678378	-	TMMBC
002121064	-	TMMI
161955380	-	TMMK
781098897	-	TMMNK
170114776	-	TMMTX
965703366	-	TMMWV
510770452	-	NUMMI

GS - Functional Group Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 8

User Option(Usage): Must use

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

Element Summary:

X12 ANSI REQUIREMENTS Ver. 4010						TOYOTA REQ
Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS01	479	Functional Identifier Code Description: Code identifying a group of application related transaction sets	M	ID	2/2	Must use
		Only Send Code IN				
GS02	142	Application Sender's Code Description: Code identifying party sending transmission; codes agreed to by trading partners	M	AN	2/15	Must use
		Senders DUNS				
GS03	124	Application Receiver's Code Description: Code identifying party receiving transmission; codes agreed to by trading partners	M	AN	2/15	Must use
		Refer To Note 1				
GS04	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use
GS05	337	Time Description: Time expressed in 24-hour clock time as follows: HHMM, where H = hours (00-23), M = minutes (00-59)	M	TM	4/4	Must use
GS06	28	Group Control Number Description: Assigned number originated and maintained by the sender	M	N0	1/9	Must use
GS07	455	Responsible Agency Code Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480	M	ID	1/2	Must use
		Only Send Code X				
GS08	480	Version / Release / Industry Identifier Code Description: Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed	M	AN	1/12	Must use
		Only Send Code 004010				

Semantics:

- GS04 is the group date.
- GS05 is the group time.
- The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

Comments:

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

Notes:

1. Valid Codes are:
TMM'S DUNS NUMBER:

961659588 - TEMA
107978962 - TMMAL
821678378 - TMMBC
002121064 - TMMI
161955380 - TMMK
781098897 - TMMNK
170114776 - TMMTX
965703366 - TMMWV
510770452 - NUMMI

ST - Transaction Set Header

Pos: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option(Usage): Must use

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

Element Summary:

X12 ANSI REQUIREMENTS Ver. 4010						TOYOTA REQ.
<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code Description: Code uniquely identifying a Transaction Set	M	ID	3/3	Must use
		Only send code 810				
ST02	329	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use

Semantics:

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).

BIG - Beginning Segment for Invoice

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option(Usage): Must use

To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates

Element Summary:

X12 ANSI REQUIREMENTS Ver. 4010						TOYOTA REQ.
<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BIG01	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use
BIG02	76	Invoice Number Description: Supplier Number + Plant Code	M	AN	5/5	Must use

Semantics:

1. BIG01 is the invoice issue date.

Loop IT1

Pos: 010	Repeat: 200000
Loop: IT1	Optional
	Elements: N/A

To specify the line item data for the invoice and related transactions

Loop Summary:

X12 ANSI REQUIREMENTS Ver. 4010						TOYOTA REQ.
<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
010	IT1	Baseline Item Data (Invoice)	M	1		Must Use
120	REF	Reference Identification	M	2		Must Use
150	DTM	Date/Time Reference	M	1		Must Use

IT1 - Baseline Item Data (Invoice)

Pos: 010	Max: 1
Detail - Mandatory	
Loop: IT1	Elements: 11

User Option(Usage): Must Use

To specify the basic and most frequently used line item data for the invoice and related transactions

Element Summary:

X12 ANSI REQUIREMENTS Ver. 4010						TOYOTA REQ.
Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT101	350	Assigned Identification Description: Card Number – Refer Notes 1,4	M	AN	4/4	Must Use
IT102	358	Quantity Invoiced Description: Number of units invoiced – No decimals	X	R	1/10	Used
IT103	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	X	ID	2/2	Used
IT104	212	Unit Price Description: Price per unit of product, service, commodity, etc.	X	R	1/14	Used
IT105	639	Basis of Unit Price Code Description: Code identifying the type of unit price for an item	O	ID	2/2	Used
IT106	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID	2/2	Used
IT107	234	Product/Service ID Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	AN	10/12	Used
IT108	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID	2/2	Used
IT109	234	Product/Service ID Description: Packaging Code	X	AN	1/1	Used
IT110	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID	2/2	Used
IT111	234	Product/Service ID Description: Dock Code Reader	X	AN	2/2	Used

Syntax:

1. P020304 - If either IT102,IT103,IT104 is present, then all are required
2. P0607 - If either IT106,IT107 is present, then all are required
3. P0809 - If either IT108,IT109 is present, then all are required
4. P1011 - If either IT110,IT111 is present, then all are required

Notes:

1. VALID CARD NUMBERS AND THEIR DESCRIPTIONS:

MA02	Returns
M380	Initial/spot purchase
M381	Raw Materials
M382	Steel
M390	North American parts
M391	Supplemental
M394	Supply parts
M395	Transportation
M621	Tier 1 of direct supply
M622	Tier 2 of direct supply
M640	Office supplies
2. 'YU' PART NUMBERS ARE TEN (10) DIGITS & DO NOT HAVE A TWO (2) DIGIT COLOR CODE.
3. DATA ELEMENT IS MANDATORY FOR THE FOLLOWING CARD NUMBERS:
M390, M391,M380,M381, & M382

DATA ELEMENT IS OMMITTED FOR THE FOLLOWING CARD NUMBERS:
M621, M622, M640, ,M394, M395, & MA02

IF THE CARD CODE IS A M621, M622, M640, M395, OR MA02, DO NOT SEND A
NEGATIVE PRICE, JUST THE POSITIVE PRICE QUOTED.

4. MAXIMUM TWELVE M390 CARD NUMBERS ON A MANIFEST
5. THE IT107 FIELD (PART NUMBER) SHOULD NOT INCLUDE ANY DASHES OR ANY OTHER SPECIAL CHARACTERS.

REF - Reference Identification

Pos: 120	Max: 2
Detail – Mandatory	
Loop: IT1	Elements: 2

User Option(Usage): Used

To specify identifying information

Element Summary:

X12 ANSI REQUIREMENTS Ver. 4010						TOYOTA REQ.
<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification Only use codes MK or IK - Refer notes 1,2,3	M	ID	2/2	Must use
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Refer notes 1,2	M	AN	1/30	Must Use

Notes:

- 1 THIS FIELD IS MANDATORY FOR ALL CARD CODES (EVERY GROUP OF IT101).
2. Must have at least 1 occurrence of REF01 with value of MK
3. If REF01 is MK, REF02 will be the 8 character Manifest Number
If REF01 is IK, REF02 will be the Suppliers Invoice Number – this is optional

DTM - Date/Time Reference

Pos: 150	Max: 1
Detail – Mandatory	
Loop: IT1	Elements: 2

User Option(Usage): Used

To specify pertinent dates and times

Element Summary:

X12 ANSI REQUIREMENTS Ver. 4010						TOYOTA REQ.
<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time	M	ID	3/3	Must use
		Only use code 050				
DTM02	373	Date Description: Date expressed as CCYYMMDD TMM Receive Date (Pick-Up Date)	M	DT	8/8	Must Use

TDS - Total Monetary Value Summary

Pos: 010	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 1

User Option(Usage): Must Use

To specify the total invoice discounts and amounts

Element Summary:

X12 ANSI REQUIREMENTS Ver. 4010						TOYOTA REQ.
<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TDS01	610	Amount Description: Monetary amount	M	N2	1/10	Must use

Semantics:

1. TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).

CTT - Transaction Totals

Pos: 070	Max: 1
Summary - Optional	
Loop: N/A	Elements: 1

User Option(Usage): Must Use

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

Element Summary:

X12 ANSI REQUIREMENTS Ver. 4010						TOYOTA REQ.
<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items Description: Total number of line items (IT1 Segments) in the transaction set	M	N0	1/6	Must use

SE - Transaction Set Trailer

Pos: 080	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

User Option(Usage): Must use

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

Element Summary:

X12 ANSI REQUIREMENTS Ver. 4010						TOYOTA REQ.
<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments Description: Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Must use
SE02	329	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use

Comments:

- SE is the last segment of each transaction set.

GE - Functional Group Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

User Option(Usage): Must use

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

Element Summary:

X12 ANSI REQUIREMENTS Ver. 4010						TOYOTA REQ.
Ref	Id	Element Name	Req	Type	Min/Max	Usage
GE01	97	Number of Transaction Sets Included Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	M	N0	1/6	Must use
GE02	28	Group Control Number Description: Assigned number originated and maintained by the sender	M	N0	1/9	Must use

Semantics:

1. The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

Comments:

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

IEA - Interchange Control Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

User Option(Usage): Must use

To define the end of an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

X12 ANSI REQUIREMENTS Ver. 4010						TOYOTA REQ.
<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
IEA01	I16	Number of Included Functional Groups Description: A count of the number of functional groups included in an interchange	M	N0	1/5	Must use
IEA02	I12	Interchange Control Number Description: A control number assigned by the interchange sender	M	N0	9/9	Must use