

MARKIV
Automotive



Electronic **D**ata **I**nterchange

Specifications
and
Implementation Guide

ANSI X12 004010

January 18, 2006

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Overview

As part of the Mark IV Automotive QS9000 initiative, Mark IV Automotive has been contacting all suppliers to obtain their EDI readiness status. The initial contact was in the form of a survey. After the survey was returned from the supplier, it was then determined if it was in the best interest of Mark IV Automotive and the supplier to begin trading electronically. Questions regarding EDI should be addressed to our EDI coordinator:

EDI Coordinator : Khadar Nur
 Telephone : (514) 256-6055 x 236
 Fax : (514) 256-2055
 Address : Mark IV Air Intake Systems
 1500 de Boucherville
 Montreal, Quebec
 H1N 3V3, Canada
 Email : khadar_nur@markivauto.com

Edi Software : Gentran Director from Sterling Software
 VAN : iconnect (734) 930-4264

EDI Id : qualifier 01 Id : 255095390 (ISA & GS levels)

Standard used : ANSI X12 release 004010.

Documents exchange

For the moment Mark IV will send the following EDI document to their business partners :

- 830 - Material release : Frequency : Daily

For the moment wants to receive the following EDI document from their business partners :

- 997 - Functional acknowledgement : Frequency : On reception of the 830.
- 856 – Advance ship notice : Frequency : For every shipment

The functional acknowledgement has to be received within one business day at Mark IV installation.

EDI Testing

Testing is a mandatory step before going live with EDI. Mark IV will send you EDI document that you will have to receive, interpret and then summarize the content to our EDI coordinator by email or fax. The purpose of these steps is to make sure you understand clearly the usage of the EDI document.

Mark IV will use the same EDI address for both production and test. The element ISA15 will determine the status of the received document.

Information Required from Trading Partner

The following information is required before the trading partner begins to exchange information electronically with Mark IV Automotive.

- ◆ **EDI contact name, address, phone/fax number and e-mail address**
- ◆ **Plant name, plant contact, address, phone/fax number and duns number**
- ◆ **Date you will be ready to test**

Please email the above information to the EDI coordinator.

Envelope Information

Each transaction set you transmit to Mark IV Automotive must begin with an ISA and GS segment and end with an GE and IEA segment.

If the enveloping segments do not exactly meet our specifications we will not be able to receive or process the transaction set.

Envelope Required Segments/Elements

SEG	ELEMENT	DESCRIPTION	COMMENTS	REQUIRED?
ISA	ISA01	Authorization Information Qualifier	Use 00 (zero,zero)	Y
	ISA02	Authorization Code	BLANK	
	ISA03	Security Information Qualifier	Use 00 (zero, zero)	Y
	ISA04	Security Code	BLANK	
	ISA05	Interchange ID Qualifier	Your qualifier ID	Y
	ISA06	Interchange Sender ID	Your ID	Y
	ISA07	Interchange ID Qualifier	01	Y
	ISA08	Interchange Receiver ID	255095390	Y
	ISA09	Interchange Date	Date of Creation (YYMMDD)	Y
	ISA10	Interchange Time	Time of Creation (Military Time)	Y
	ISA11	Interchange Control Standards Identifier	U	Y
	ISA12	Interchange Control Version Number	00401	Y
	ISA13	Interchange Control Number	Unique number that can not be duplicated in one year's time.	Y
	ISA14	Acknowledgment Requested	Use 0 (zero) for no acknowledgement required	Y
	ISA15	Test Indicator	P for Production or T for Test	Y
GS	GS01	Functional Identifier Code	PS	Y
	GS02	Application Sender Code	Your ID	Y
	GS03	Application Receiver ID	255095390	Y
	GS04	Date	Date created (YYYYMMDD)	Y
	GS05	Time	Time created (Military Time)	Y
	GS06	Group Control Number	Start with 1 and increment by 1 for each subsequent GS segment	Y
	GS07	Responsible Agency Code	X	Y
	GS08	Version	004010	Y

SEG	ELEMENT	DESCRIPTION	COMMENTS	REQUIRED?
GE	GE01	Number of Trans. Sets Included	Total number of ST segments in group	Y
	GE02	Group Control Number	Must match GS06	Y
IEA	IEA01	Number of Included Functional Groups	Number of GS segments included between ISA and this IEA	Y
	IEA02	Interchange Control Number	Must match ISA13	Y

Envelope examples

When Mark IV is the sender :

```
ISA*00*      *00*      *ZZ*YOUR ID      *01*255095390      *010605*  
1704*U*00401*000595405*0*P*>!  
GS*PS*YOUR ID*255095390*20010605*1704*595405*X*004010!
```

.
. .
. .
. .
. .
. .

```
GE*1*595405!  
IEA*1*000595405!
```

When Mark IV is the receiver :

```
ISA*00*      *00*      *01*255095390      *ZZ*YOUR ID      *010605*  
1704*U*00401*000595405*0*P*>!  
GS*PS*255095390*YOUR ID*20010605*1704*595405*X*004010!
```

.
. .
. .
. .
. .
. .

```
GE*1*595405!  
IEA*1*000595405!
```

830 Material Release & 997 Functional Acknowledgement

830 Material Release

Mark IV Automotive will create material releases based upon demand from Mark IV Automotive customers and production planning. The purpose of this document is to give the supplier planning and shipping information. Address any discrepancies to the Mark IV Automotive buyer to make needed corrections. Releases will be available on a daily basis.

997 Functional Acknowledgment

When a Mark IV Automotive trading partner dials into his value added network mailbox and retrieves his releases, Mark IV Automotive requires that the trading partner transmits a 997 Functional Acknowledgment back to confirm receipt of the releases. Mark IV Automotive is requesting validation of the data transmitted.

The 997 Functional Acknowledgement must be transmitted to Mark IV Automotive within 24 hours of receiving the 830 Material Release.

830 Material Release Required Segments/Elements

SEG	ELEMENT	DESCRIPTION	COMMENTS	REQUIRED?
ST	ST01	Transaction Set ID Code	830	Y
	ST02	Transaction Set Control No.		Y
BFR	BFR01	Purpose Code	05 = Replacement	Y
	BFR02	Mess. Number	Message ID	Y
	BFR04	Schedule Type	DL = Delivery based	Y
	BFR05	Actual quantities	R = Replacement quantities	Y
	BFR06	Horizon Start Date	CCYYMMDD	Y
	BFR07	Horizon End Date	CCYYMMDD	Y
	BFR08	Message Date	CCYYMMDD	Y
N1	N101	Qualifier	VN = Vendor Number	Y
	N102	Name		Y
	N103	Qualifier	1 = DUNS 9 = DUNS + 4 char. 92 = Assigned by Buyer	Y
	N104	Location Code	Vendor Code	Y
N1	N101	Qualifier	BT = Bill To	Y
	N103	Qualifier	1 = DUNS 9 = DUNS + 4 char.	Y
	N104	Location Code	Bill-to code	Y
N1	N101	Qualifier	ST = Ship To	Y
	N102	Name		Y
	N103	Qualifier	1 = DUNS 9 = DUNS + 4 char.	Y
	N104	Location Code	Ship-to code	Y
LIN	LIN01	Line Number	Sequential number starting at 1 and incrementing by 1	Y
	LIN02	Qualifier	BP = Buyer's Part	Y
	LIN03	Part Number	Buyer's Part Number	Y
	LIN04	Qualifier	VP = Vendor's Part	Y
	LIN05	Part Number	Vendor's Part Number	Y
UIT	UIT01	Unit of Measure	EA = Each KG = Kilo	Y
PID	PID01	Format	F = Freeform Text	N
	PID05	Description	Item Description	N
PO4	PO401	Pack	Quantity per pack	Y

SEG	ELEMENT	DESCRIPTION	COMMENTS	REQUIRED?
	PO402	Size	1	Y
	PO403	Unit of Measure	Unit of measure of the size	Y
	PO404	Packaging Code	See additional notes	Y
REF	REF01	Qualifier	PO = Purchase Order	Y
	REF02	PO Number		Y
REF	REF01	Qualifier	DK = Dock Number	N
	REF02	Dock Number		N
SDP	SDP01	Delivery Type	N = As directed	Y
	SDP02	Delivery Pattern	F = As directed	Y
FST	FST01	Quantity	Net quantity	Y
	FST02	Forecast Type	C = Firm D = Planning	Y
	FST03	Forecast Period	D = Daily W = Weekly M = Monthly	Y
	FST04	Start Forecast/Shipping Date	CCYYMMDD	Y
	FST05	End Forecast/Shipping Date	CCYYMMDD	Y
CTT	CTT01	Hash Total	Number of Line Items	Y
SE	SE01	Number Of Included Segments	Number of ST segments included between ST and this SE	Y
	SE02	Trans. Set Total Number	Must match ST02	Y

Additional notes

Packaging codes

The following code will be used :

- CTN90 : Carton standard
This code is use when the product is shipped in the usual packaging made of carton
- CTN89 : Carton special
This code is use when the product is NOT shipped in the usual packaging made of carton
- RCK90 : Rack standard
This code is use when the product is shipped in the usual rack
- RCK89 : Rack special
This code is use when the product is shipped in the usual rack

Example 830 Material Release, ANSI X-12 4010 Version

ISA*00* *00* *ZZ*YOUR ID *12*5142566055 *010605*
 1704*U*00401*000595405*O*P*>!
 GS*PS*YOUR ID*5142566055*20010605*1704*595405*X*004010!
 ST *830*000000608!
 BFR*05**010604*DL*C*20010604*20010605*20010604!
 N1*VN*IDEAL STANT*92*42804!
 N1*BT**9*2550953900000!
 N1*ST*MARK IV AUTOMOTIVE*9*2550953900000!
 LIN*1*BP*10-85104*VP*123456!
 PID*F*item description!
 UIT*EA!
 PO4*5*1*CTN90!
 REF*PO*749948!
 REF*DK*1!
 SDP*N*F!
 FST*28000*C*D*20010608*20010608!
 FST*10000*D*D*20010609*20010609!
 FST*10000*D*D*20010610*20010610!
 SE*17*000000608!
 GE*1*595405!
 IEA*1*000595405!

Example: Transaction Set 997 Functional Acknowledgment Version 4010

ST*997*00001!
 AK1*PS*123456!
 AK2*830*1234!
 AK5*A!
 AK9*A*5*5*5!
 SE*6*0001!

856 Advanced Shipment Notification

856 – Advanced Shipping Notification Rules

NOTE: All information required on the ASN is available on the 830 (Material release).

An 856 (ASN) must be transmitted at the time that the carrier leaves the suppliers dock.

The packing slip numbers may not be duplicated in a 12-month period.

- ❖ If a **warning or rejection** is received in response to your ASN **do not re-send the ASN**. Please take note of the warning and correct the problem prior to transmitting your next ASN. Failure to correct errors on future ASN's will result in a negative impact to your supplier rating.
 - An ASN will reject for the following reasons:
 - **Duplicate Packing Slip Number**
 - **Missing Packing Slip Number**
 - **Invalid Ship-to or Supplier Qualifier**
 - **Invalid Supplier Code**
 - **Invalid Ship-to Code**
 - **Invalid Part Number**
 - **Quantity shipped equal to zero**
 - **Invalid Part/P.O. Combination**
 - **Invalid P.O.**
- ❖ **Failure to transmit an ASN will be reflected negatively in your supplier rating.**
- ❖ It is the supplier's responsibility to ensure that an ASN is received and accepted by Mark IV Automotive. If you experience problems please contact your Mark IV Automotive buyer or the Mark IV's EDI Coordinator at (514)256-6055 x 236.

856 – Advance Shipment Notification Required Segments/Elements

SEG	ELEMENT	DESCRIPTION	COMMENTS	REQUIRED?
ST	ST01	Transaction Set ID Code	856	Y
	ST02	Transaction Set Control No.		Y
BSN	BSN01	Transaction Set Purpose Code	00 = Original	Y
	BSN02	Shipment Identification	Packing Slip Number	Y
	BSN03	Date	ASN Date (CCYYMMDD)	Y
	BSN04	Time	ASN Time (HHMMSS)	Y
HL	HL01	Hierarchical ID	1 – First Sequence	Y
	HL03	Hierarchical Code	S – Shipment Level	Y
MEA	MEA01	Measurement Reference	PD – Physical Dimensions	Y
	MEA02	Measurement Qualifier	G = Gross	Y
	MEA03	Measure Value	Weight	Y
	MEA04	Unit or Basis for Measurement	KG or LB	Y
TD5	TD501	Routing Sequence Code	B = Origin	Y
	TD502	Identification Qualifier	2 = SCAC Code	Y
	TD503	SCAC Code	Scac Code	Y
	TD505	Routing	Carrier Name	Y
TD3	TD301	Equipment Description	TL (trailer)	Y
	TD303	Equipment Number	Trailer Number	Y
REF	REF01	Reference Identification	DK = Dock	Y
	REF02	Reference Identification	Dock Number	Y
DTM	DTM01	Date Qualifier	017 = Delivery Based	Y
	DTM02	Date	Estimated Delivery Date (CCYYMMDD)	Y
	DTM03	Time	Estimated Delivery Time (HHMMSS)	Y
N1	N101	Entity Identifier	VN = Vendor	Y
	N102	Name		Y
	N103	Id Qualifier	1 = DUNS 9 = DUNS + 4 char. 92 = assigned by buyer	Y

SEG	ELEMENT	DESCRIPTION	COMMENTS	REQUIRED?
	N104	Id Code	Code depending on N103	Y
N3	N301	Address Information		N
N4	N401	City Name		N
	N402	State or Province Code		N
	N403	Postal Code		N
	N404	Country Code		N
N1	N101	Entity Identifier	SF = Ship From	Y
	N102	Name		Y
	N103	Id Qualifier	1 = DUNS 9 = DUNS + 4 char. 92 = assigned by buyer	Y
	N104	Id Code	Code depending on N103	Y
N3	N301	Address Information		N
N4	N401	City Name		N
	N402	State or Province Code		N
	N403	Postal Code		N
	N404	Country Code		N
N1	N101	Entity Identifier	ST = Ship To	Y
	N102	Name		Y
	N103	Id Qualifier	1 = DUNS 9 = DUNS + 4 char.	Y
	N104	Id Code	Code depending on N103	Y
N2	N201	Additional Name Information	If available	N
	N202	Additional Name Information	If available	N
N3	N301	Address Information		N
N4	N401	City Name		N
	N402	State or Province Code		N
	N403	Postal Code		N
	N404	Country Code		N
HL	HL01	Hierarchical ID	HL01 + 1	Y
	HL03	Hierarchical Code	I = Item Level	Y

LIN	LIN01	Assigned Identification	Line Number	Y
	LIN02	Product/Service ID Qualifier	BP – Buyers Part Number	Y
	LIN03	Product/Service ID	Mark IV Automotive Part Number	Y
	LIN04	Product/Service ID Qualifier	VP – Vendor's part	Y
	LIN05	Product/Service ID		Y
SN1	SN102	Units Shipped	Quantity Shipped	Y
	SN103	Unit or Basis for Measurement	EA = Each KG = Kilo	Y
PRF	PRF01	Purchase Order Number	P.O. Number	Y
	PRF04	Date	P.O. Date	Y
PID	PID01	Item Description Type	F = Free Form	Y
	PID05	Description	Item Description	Y
CLD	CLD01	Number Of Loads	Number of Loads (cartons, skids, etc)	Y
	CLD02	Number Of Units Shipped	Quantity per Load 1 when CLD05 = KG	Y
	CLD03	Packaging Code	See additional notes	Y
	CLD04	Size	1 when CLD05 = EA weight when CLD05 = KG	Y
	CLD05	Unit or Basis for Measurement	EA = Each KG = Kilo	Y
CTT	CTT01	Number of Line Items	Total number of HL segment	Y
SE	SE01	Number Of Included Segments	Number of ST segments included between ST and this SE	Y
	SE02	Trans. Set Total Number	Must match ST02	Y

Additional notes

Packaging codes

The following code will be used :

- CTN90 : Carton standard
This code is use when the product is shipped in the usual packaging made of carton
- CTN89 : Carton special
This code is use when the product is NOT shipped in the usual packaging made of carton
- RCK90 : Rack standard
This code is use when the product is shipped in the usual rack
- RCK89 : Rack special
This code is use when the product is NOT shipped in the usual rack
- **TKT90 : Tank truck standard**
This code is use when the product is shipped in the usual tank truck.

Example of CLDs

If you want to ship 3 standard cartons of 1000 units, you will produce (the ordered qty is 3000 units)

CLD*3*1000*CTN90*1*EA!

If you want to ship 10,000 kilos of powder in one standard tank truck you will produce

CLD*1*1*TKT90*10000*KG!