



EDI Business Process Guide

CVA=Commercial Vehicle Aftermarket
CVS=Commercial Vehicle Systems
LVS=Light Vehicle Systems


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1 Business Process Overview

1.1 EDI Function within the Business Process

INTRODUCTION TO ELECTRONIC DATA INTERCHANGE (EDI)

EDI is defined as the electronic transmission of business documents in a standard format between two companies. The definition can be expanded further to include the electronic transmission of business documents from the application program of one computer to the application program of another computer within the framework of a standard format. The key elements in the definition are business documents and standard format. EDI reduces cost and errors associated with the paper document environment. EDI also provides a rapid transfer of information between trading partners, which has become mandatory in today's business.

ASC X12

ASC X12 format consists of data elements grouped together in segments. Each X12 transaction set is made up of a list of segments. The beginning of a transaction is identified by a header segment "ST", and the end of the transaction is identified by an "SE" segment. Several transactions of the same type can be functionally grouped together. The beginning of a functional group is indicated by a group header segment identified by "GS", and the end of a functional group is indicated by a segment identified by "GE". One or more groups are bound together within an interchange envelope made up of an "Interchange Control Header" identified as "ISA" and an "Interchange Control Trailer" identified as "IEA". There is a diagram on the next page depicting the X12 hierarchical structure.

Testing and Certification

Each new transaction set will require testing and certification by our EDI support staff. Once the transaction set has been certified, we will make arrangements with your EDI staff to begin transmission of data using the newly tested transaction set. For further details on how to obtain testing information, please email inquires to: ARMSupplierEDI@ArvinMeritor.com

1.2 Transaction Frequency

ArvinMeritor will send an 830 containing both forecast and firm requirements to their suppliers as frequently as daily. Each plant will send a separate 830 based on their requirements. Suppliers are required to send an ASN for every shipment made to an ArvinMeritor plant. Each ASN, 856, should represent one shipment identified by the Shipment Identification Number.

1.3 ArvinMeritor Processing

Supplier ASNs will be pulled from our GXS and IBM mailboxes every 30 minutes. ASNs so pulled will be processed through our EDI translator, and a 997 Functional Acknowledgement (FA) will be generated. The FA will give details of the accuracy of the syntax of the 856 transaction. FA's will immediately be sent back to the supplier's mailbox.

1.4 Supplier Support

The following indicates the appropriate contact email to be used by suppliers when having an issue with an EDI transaction. <mailto:ARMSupplierEDI@ArvinMeritor.com>

Suppliers must remember that these contacts will only be able to assist with EDI issues. Issues related to Purchasing/Procurement, i.e. purchase order and data related information, must be directed to your ARM Corporate Buyer.

2 Location Codes

The following table provides the ARM locations, associated DUNS, ARM Division, and ERP system:

ArvinMeritor, Inc.

<u>Plant</u>	<u>Site</u>	<u>DUNS</u>	<u>Division</u>	<u>ERP</u>
Arden, NC	ARD	086426082	CVS	Oracle
Asheville - Fletcher, NC	ASH	057174658	CVS	Oracle
Belvidere, IL	BEL	077882140	LVS	MFG/PRO
Carrollton, KY	CAR	059564385	CVS	MFG/PRO
Chatham, Ontario, Canada	CHA	207032962C	LVS	MFG/PRO
Corporate HQ - Troy, MI	TRY	052354297	ALL	ALL
Detroit, MI	DET	005549303	LVS	MFG/PRO
Florence, KY	FLR	030953426	CVA	AS400
Forest City, NC	FOR	127750425	CVS	Oracle
Frankfort Trailer, KY	FRK	043190110	CVS	Oracle
Frankfort Brake, KY	FRB	603569794	CVS	Oracle
Franklin, KY	FLN	006379002	CVS	MFG/PRO
Laurinburg Brake - Maxton, NC	LRB	192361681	CVS	Oracle
Laurinburg Axle - Maxton, NC	LRS	19236168A	CVS	Oracle
Limeira, Brazil	LIM	908743107	LVS	MFG/PRO
Manning Brakes – Manning, SC	MAN	556378979	CVS	Oracle
Maxton Driveline (prev. Manning)^	DLM	068166453	CVS	Oracle
Montgomery, AL	MTG	145081241	LVS	MFG/PRO
Monterrey, Mexico	MON	812944767	CVS	Oracle
Morristown, TN	MOR	095047825	CVS	Oracle
Mullins, SC	MUL	196148030	LVS	MFG/PRO
Newark - Heath, OH	MWK	004289450	CVS	Oracle
Plainfield, IL	PLN	P50204002	CVA	AS400
Puebla, Mexico	PUE	812456564	LVS	MFG/PRO
San Luis Potosi, Mexico	SLP	812376572	LVS	MFG/PRO
St Thomas Driveline	DLS	200120769	CVS	Oracle
Tepeyac, Mexico	TEP	812224764	LVS	MFG/PRO
Tilbury, Ontario, Canada	TIL	207558495	CVS	Oracle
Wabco - Hebron, KY	WAB	613487834	CVS Joint Venture	SAP
York Heritage, SC	YRK	045297967	CVS	Oracle
York NA Foundation Brake, SC	YRB	780969007	CVS	Oracle

^ Unique DUNS used for EDI 830's

See below for Plant ShipTo addresses.

ARM Plant	DUNS #	ShipTo Address	Phone	Country
Arden (ARD)	086426082	90 Christ School Rd. Arden, NC 28704	828-650-3046	USA
Asheville (ASH)	057174658	1000 Rockwell Drive Fletcher, NC 28732-9494	828-687-2000	USA
Belvidere (BEL)	077882140	3458 Morreim Drive Townhall Industrial Park Belvidere, IL 61008	815-544-1900	USA
Carrollton (CAR)	059564385	5212 US Hwy. 42 East Carrollton, KY 41008	502-732-6635	USA
Chatham (CHA)	207032962C	201 Park Avenue East Chatham, Ontario, CN N7M 3V7	519-354-1100	Canada
Corporate HQ (TRY)	052354297	2135 W. Maple Road Troy, MI 48084	248-435-1000	USA
Detroit (DET)	005549303	6401 W Fort Street Detroit, MI 48209	313-551-2400	USA
Florence (FLR)	030953426	7975 Dixie Hwy Florence, KY 41042	859-525-3500	USA
Forest City (FOR)	127750425	160 Ash Street Forest City, NC 28043	828-247-0440	USA
Frankfort Trailer (FRK)	043190110	88 Steadmantown Lane P.O. Box 558 Frankfort, KY 40601	502-695-6520	USA
Frankfort Brake (FRB)	603569794	88 Steadmantown Lane, Suite #2 P.O. Box 558 Frankfort, KY 40601	502-695-6520	USA
Franklin (FLN)	006379002	115 Ogles Ave. Franklin, KY 42134	270-598-0721	USA
Laurinburg (LRB)	192361681	22021 Skyway Church Rd., Ste A Maxton, NC 28364	910-844-9401	USA
Laurinburg Specialty (LRS)	19236168A	22021 Skyway Church Rd., Ste B Maxton, NC 28364	910-844-9401	USA
Limeira (LIM)	908743107	Av. Major Jose Levy Sobrinho, 2700 Limeira, Sao Paulo, Brazil 13486-925	55-19-3404-2189	Brazil
Manning (MAN)	556378979	2398 Ram Bay Road Manning, SC 29102	803-505-4500	USA
Maxton Driveline (prev. Manning) (DLM)	068166453	22021 Skyway Church Rd., Suite C Maxton, NC 28364	803-505-4500	USA
Montgomery (MTG)	145081241	139 Folmar Parkway Montgomery, AL 36105	334-284-9972	USA
Monterrey (MON)	812944767	ArvinMeritor de Mexico S.A. de C.V. Carretera Monterrey Laredo Km. 23.1 – Interior 2 Nexus A D N Cienega de Flores N.L. 66550 NOTE: This is also BillTo for MON	Temporary: 011-52-811516 5559	Mexico

ARM Plant	DUNs #	Ship-to Address	Phone	Country
Morristown (MST)	095047825	One Rockwell Drive Morristown, TN 37813	423-587-2290	USA
Mullins (MUL)	196148030	210 W. Lowman Street Mullins, SC 29574	843-464-8219	USA
Newark (NWK)	004289450	444 Hebron Rd Heath, OH 43056-1440	740-344-1131	USA
Plainfield (PLN)	P50204002	849 Whitaker Rd. Plainfield, IN 46168	317-839-9525	USA
Puebla (PUE)	812456564	Km 117 Autopista Puebla, Mexico 72710	52-222-303-2900	Mexico
San Luis Potosi (SLP)	812276572	Eje 130, No. 175 Zona Industrial del Potosi San Luis Potosí, Mexico 78395	52-444-826-6205	Mexico
St Thomas Driveline (DLS)	200120769	215 Edward St St. Thomas, Ontario, CN N5P 1Z4	519-637-0606	Canada
Tepeyac (TEP)	812224764	Zona Industrial el Tepeyac Tepeyac #110 El Marques, Queretaro Mexico 76020	52-442-278-1200	Mexico
Tilbury (TIL)	207558495	28 Mill Street Highway #2 Tilbury, Ontario, CN N0P 2L0	519-682-1740	Canada
Wabco (WAB)	613487834	845 Lindbergh Court Hebron, KY 41048	859-746-7883	USA
York Heritage (YRK)	045297967	801 Railroad Ave., Suite A York, SC 29745	803-684-2523	USA
York NA Foundation Brake (YRB)	780969007	201 Railroad Ave., Suite B York, SC 29745	803-684-2523	USA

3 Communication Requirements

Third Party Value Added Networks (VAN)

In order for ArvinMeritor to transmit documents to hundreds of Suppliers, we have chosen the VAN services of GXS (GEIS) third party network. GXS phone number: (800) 334-2255.

This does **not** mean that you must sign up with these networks in order to communicate with us. Ask your network provider how to pass data through (Interconnect vs direct connect) to GXS network – our preferred VAN.

There are different ISA/GS requirements as well as communication vehicle (VAN) depending upon which ARM plant(s) the supplier Ship's To according to ERP. Please see Locations Table above for plant DUNS and ERP. Note the following for ARM ISA ID details:

ARM CVS and CVA Qualifier:ID's per VAN:

ISA
GXS 01:052354297S
IBM 09:052354297
GS
GSX 052354297S
IBM 052354297

ARM LVS Qualifier:ID's per VAN:

ISA
GXS ZZ:788082092LVS
GS
GXS ARM Plant Duns

ARM WABCO Qualifier:ID's per VAN:

ISA
GXS ZZ:613487834S
GS
GXS 613487834S

Outbound 830s to suppliers delivered to GXS and IBM. Inbound 856s to ARM are received with the same connection, via direct connect or interconnect.

The specific header (ISA/GS) requirements by ERP are as follows. Please note the examples are of 830s sent from ArvinMeritor plants. The 856s sent to ArvinMeritor would have the Sender and Receiver information reversed unless noted.

CVA and CVS Oracle Plants:

NOTE: Both ISA & GS are the same value for both 830

The 830 ISA/GS example to IBM:

ISA*00* *00* *09*052354297 *01*255424289
*050516*0701*U*00201*000001730*0*P*:*~
GS*PS*052354297*052354297*050516*0701*1730*X*002002~
ST*830*17300001~

The 830 ISA/GS example to GXS:

ISA*00* *00* *01*052354297S *ZZ*F016879759
*050516*0729*U*00201*000001836*0*P*:*~
GS*PS*052354297S*F016879759*050516*0729*1836*X*002002~
ST*830*18360001~

CVS and LVS MFG/PRO Plants:

The 830 ISA/GS example to GXS:

ISA*00* *00* *ZZ*788082092LVS *01*004325254
*070329*1848*U*00200*000001384*0*P*:*~
GS*PS*062442561*004325254*070329*1848*1384*X*002040~
ST*830*13840001~

Wabco SAP Plant:

The 830 ISA/GS example to GXS:

ISA*00* *00* *ZZ*613487834S *12*6203656919
*050516*1349*U*00201*000013663*0*P*}*~
GS*PS*613487834S*6203656919*20050516*1349*13663*X*004010~
ST*830*136630001~

4 EDI Transaction Notes

856 – BSN02

This number is the S.I.D. number (Shipment Identification Number) of the shipment. It is usually the Bill of Lading number, although it may be any number assigned by the vendor. The only requirement is that this number does not repeat for a period of one year. This number should be referenced on all shipping documents.

If, for example, the vendor wants to be paid by the packing slip number then only one packing slip should be included with the ASN. The packing slip number will then be placed in the BSN02 field as well as the packing slip reference segment. If multiple packing slips were included in the ASN then all would be paid under the packing slip number in the BSN02 field.

856 – Shipment REF*BM

This is a mandatory segment in the Shipment area, which is equivalent to the S.I.D. number (Shipment Identification Number) of the shipment. It is usually the Bill of Lading number, and must match the content of the BSN02 (as noted above).

830 & 856 - LIN01 and 856 - DTM*371

There are minor additional requirements added to the 830s required for turnaround data to the CVS Oracle plants. The addition of the PO Line Number located in the LIN01 will be sent on the 830 and mandatory on the 856, also on the LIN01.

Along with the PO Line Number requirement on the 856 for the CVS Oracle plants, we require an additional DTM segment on the Shipment Level denoting the Estimated Arrival Date, qualifier '371'.

Although the above LIN01 and DTM*371 are required for Oracle plants, we can accept this information on the 856 for all other plants as well.

If you are unable to send the CVS Oracle mandatory requirements of PO Line Number and additional DTM*371 segment, please call your Planner to obtain access logon onto the iSupplier Portal. You are required to send either 856s via EDI or enter the shipments onto the Portal.

830 – BFR Segment

BRF01 – Purpose Code “05”, replacement of all existing schedules. This is the normal purpose code used by all North American CVS plants and represents a complete replacement of all schedules. All existing schedules for the designated purchase order are to be deleted and replaced by the new 830 release.

NOTE: A zero quantity schedule will NOT be sent for cancellations.

5 Transaction Definition

Transaction Name: Advance Ship Notice
Transaction Code: 856
Transaction Version: ANSI X12, version 004010

The Advance Ship Notice (EDI 856) must be sent by all suppliers to ArvinMeritor prior to the physical receipt of the material at our manufacturing facility. The Ship Notice must be representative of the supplier’s shipment, containing shipping information and material contents. This information must be communicated as soon as a shipment leaves the supplier’s location, or at an agreed upon time relative to close-proximity suppliers, as it will be used to facilitate the receiving process at ArvinMeritor. In some instances, the ASN will be used to initiate an ERS (Evaluated Receipts Settlement) for non invoice payments to the supplier.

CVS Oracle Requirement Details:

830 version 002002

- PO Line Number to be sent in LIN01 within LIN LOOP.
- Firm quantities will be reflected on daily requirements, for example:
FST*450*C*D*050213
- Planned quantities will be reflected for weekly and monthly requirements, for example:
FST*25000*D*W*050509

856 003040 & 004010

- Required turn-around of the PO Line Number to be sent in LIN01 within LIN Loop.
- Estimated Arrival Date qualifier ‘371’ to be sent in DTM01 within HL Shipment Level Loop.
DTM*371 should appear after the REF*BM

CVS Oracle Sample 856 for 003040:

ST*856*000000933~
BSN*00*5107067*041214*1645~
DTM*011*041214*1600*ET~
HL*1**S~
MEA*PD*G*144*LB~
TD1*PLT71*1~
TD5*B*02*HMES*LT*USF HOLLAND~
TD3*TL**207813~
REF*CN*11500352157~
REF*BM*5107067~
DTM*371*<6 dig date of estimated arrival>~
N1*Sf**92*M0050134~
N1*ST**01*207558495~
HL*2*1*I~
LIN*<PO Line No>*BP*A67 3276P16*VP*1416115~
SN1**24*EA~
PRF*T00501882***041116~
REF*PK*11500352157~
CTT*2*24~
SE*19*000000933~

CVS Oracle Sample 856 for 004010:

ST*856*000000933~
BSN*00*5107067*20041214*1645~
DTM*011*20041214*1600*ET~
HL*1**S~
MEA*PD*G*144*LB~
TD1*PLT71*1~
TD5*B*02*HMES*LT*USF HOLLAND~
TD3*TL**207813~
REF*CN*11500352157~
REF*BM*5107067~
DTM*371*<8 dig date of estimated arrival>~
N1*Sf**92*M0050134~
N1*ST**01*207558495~
HL*2*1*I~
LIN*<PO Line No>*BP*A67 3276P16*VP*1416115~
SN1**24*EA~
PRF*T00501882***20041116~
REF*PK*11500352157~
CTT*2*24~
SE*19*000000933~

If you are unable to send the Oracle requirements of PO Line Number and additional DTM*371 segment, please call your Planner to obtain access logon onto the iSupplier Portal. You are required to send either 856s via EDI or enter the shipments onto the Portal.

Utilize the following link <http://tradeexchange.arvinmeritor.com/SupplierDir/edi/files.htm> to find the following:

- ARM Division specific EDI 830 Implementation Guides
- ARM Division specific EDI 856 Implementation Guides
- ARM Supplier EDI Questionnaire