



Light Vehicle Systems
Business Process Guide


 LVS Business Process Guide	Document Code: 1
	Revision Number: 1
	Revision Date: April 02, 2007
Author(s): LVS EDI	

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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 send inquires to <mailto:lvsedi@arvinmeritor.com>

1.2 Transaction Frequency

ArvinMeritor will send an 830 containing both forecast and firm requirements to their suppliers frequently. Each LVS plant will send a separate 830 based on their requirements. Suppliers are required to send an ASN for every shipment made to an ArvinMeritor LVS 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 they have an issue with an EDI transaction. 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 LVS buyer.

<mailto:lvsedisupplier@arvinmeritor.com>

2 Location Codes

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

ArvinMeritor, Inc.
Light Vehicle Systems Division

<u>Plant</u>	<u>DUNS</u>	<u>Division</u>	<u>ERP</u>
Belvidere	077882140	LVS	Mfg/PRO**
Carrollton (Machining)	059564385	CVS	Mfg/PRO**
Detroit (Roofs)	005549303	LVS	Mfg/PRO**
Detroit (Suspensions)	005549303	LVS	Mfg/PRO**
Montgomery	145081241	LVS	Mfg/PRO**
Mullins Gordonsville	196148030	LVS	Mfg/PRO**

077882140 **Belvidere**

3458 Morreim Drive
Townhall Industrial Park
Belvidere, IL 61008
United States

Phone

815.544.1900

059564385 **Carrollton (Machining)**

5212 US Hwy. 42 East
Carrollton, KY 41008
United States

Phone

(502) 732-6635

Comnet Exchange: 444

005549303 **Detroit (Roofs)**

6401 West Fort Street
Detroit, MI 48209
United States

Phone

313-551-2400
Comnet: 538-2400
Comnet Exchange: 538

005549303 **Detroit (Suspensions)**

6401 West Fort Street
Detroit, MI 48209
United States

Phone

313-551-2400
Comnet: 538-2400
Comnet Exchange: 538

145081241 **Montgomery**

139 Folmar Parkway
Montgomery, AL 36105
United States

Phone

334-284-9972

196148030 **Mullins**

210 West Lowman Street
Mullins, SC 29574
United States

Phone

843-413-6464
Comnet: 231
Comnet Exchange: 231

3 Communication Requirements

Third Party Value Added Network (VAN)

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

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.

LVS/CVA Plants:

The 830 ISA/GS example to GXS from LVS/CVA Plants:

```
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~
```

NOTE: LVSS/CVA 830s is sent via GXS.

The 856 are sent via GXS.

The 856 ISA/GS example from GXS to LVS/CVA Plants:

```
ISA*00*           *00*           *01*041660445     *ZZ*788082092LVS
*070330*1503*U*00401*000000599*0*P*:`
GS*SH*041660445*059564385*20070330*1503*148*X*004010`
ST*856*000000148`
```

Mfg/PRO** Plants:

The 830 ISA/GS example to GXS from Mfg/PRO** Plants:

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

The 830 ISA/GS example to GXS from Mfg/PRO** Plants:

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@

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 on the 830s required for turnaround data to the **Mfg/PRO**** plants. The addition of the PO Line Number located in the LIN01 will be sent on the 830 and expected back on the 856, also on the LIN01.

Along with the PO Line Number requirement on the 856 for the **Mfg/PRO**** 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 **Mfg/PRO**** plants, we can accept this information on the 856 **LVS and CVA** data as well.

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.

The following link is to the [LVS 830 and 856](#) Implementation Guides:

<http://tradeexchange.arvinmeritor.com/SupplierDir/edi/files.htm>