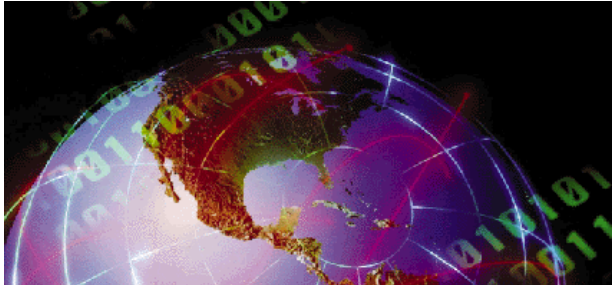


# Electronic Data Interchange



GALION *Automotive* provides a communication and translation tool integrated on the IBM «i-series» platform.

It supports multiple standards and multiple protocols.

The software processes both EDI communication and translation. It is also a tool that monitors and manages the EDI activity. For instance, it is capable of notifying that a remote partner has not transmitted an expected message in time.

EDI manager contains an “EDI Server” function that gives the ability to reroute all or part of a message AND undertake a standards conversion within the same processing step.

The software currently has more than translation mappings.

Although EDI manager is an integral part of GALION *Automotive*, it can function in an autonomous mode in link with other logistics management software.

## Standards Supported by EDI Manager

GALION *Automotive* supports the complete set of standards currently used in the automotive industry by OEM's and suppliers (Tier 1 and below).

- GALIA
- ODETTE V3
- EDIFACT
- VDA
- ANSI X12

## Database Parameters

The connection points defined (e.g. X25, RNIS, FTP) allow the organisation to handle the various way in which messages are routed between EDI partners. The system can operate in “point-to-point” mode, (i.e. with a direct connection with the EDI partner), or via connection with a “value added network” (VAN).

Local EDI partners and remote EDI partners are provided with mailbox numbers for identification

Local sites and remote sites are defined with their respective EDI code. It allows the system to identify the legal entities that exchange the messages. In an exchange of messages, the local site sends the message; the remote site receives the message.

In the system, it is necessary to define the messages exchanged; together with their respective standard, and level within the standard (e.g. standard: EDIFACT, message: DELFOR, version D96A).

The system provides a number of “user exit” programs. These are small algorithms that are used to correct or complete EDI messages in order to render their contents and format comprehensible to the receiving application.

The “interchange” represents the lowest level of EDI parameterisation. This defines a specific “exchange vector”. An “interchange” is created between a local EDI partner and a remote EDI partner, for a local site and a remote site, and for a specific message. The message is associated with a specified standard version, and is identified as either sent or received.

For “interchanges” relating to received messages (and certain sent messages such as supplier schedules), it is possible to define a theoretical transmission calendar and timetable.

## Operational EDI Processes

The system allows the management of EDI activity, both transmission and reception. All messages sent or received are contained within communication sessions.

The communication sessions and the messages contained within them are controlled by status.

Monitoring this status, allows the EDI administrator to monitor the EDI communication through its progressive stages of communication, translation, and integration.

The user interface allows the monitoring of:

- Connections
- Messages received
- Messages sent
- Messages awaiting transmission

At each message transmission or reception, the system checks if the exchange conforms to the theoretical transmission or reception timetable. An alert is generated if the calendar is not respected. All alerts are archived in the system.

## Domains of Expertise

Our experience is reflected in the definition of more than 200 EDI mappings of which the following are examples.

### EDIFACT RENAULT

DELFOR D96A - Renault profile  
DELJIT D98B - L3P/GPI  
DESADV D96A - Renault profile  
INVOIC D96A - Renault profile

### EDIFACT PEUGEOT

DELFOR D96A - Peugeot profile  
DELJIT D96A - SOGEDAC logistic profile  
DELJIT D98B - SOGEDAC logistic profile  
DESADV D96A - Peugeot profile  
INVOIC D96A - Peugeot profile

### EDIFACT RVI – VOLVO TRUCKS

DELFOR D96A - RVI profile  
DESADV D96A - RVI profile  
INVOIC D96A - RVI profile

### EDIFACT GM OPEL

DELFOR D97A UN MGO  
DELJIT D97A UN PUS  
DESADV D97A UN MGO

### VDA Messages

Valid for all German OEM's using the VDA standard

Forecast 4905 LIEFERABRUF  
Call-off 4915 FEINABRUF  
Advanced shipping note 4913 LIEFERSCHEIN  
Invoice 4906 RECHNUNG  
Self-Bill Invoice 4908 DATEN FERN  
ÜBERTRAGUNG VON GUTSCHRIFTANZEIGE

### ANSI X12 Messages

Ford, Chrysler, Lear Corporation, Mark IV,  
Caterpillar, Nummi, Mitsubishi, Navistar,  
Hutchinson, Yazaki, Borg Warner, etc.

### Other OEM or Tier 1 partners

Fiat, Iveco, Volvo, VW, Nissan, Toyota, BMW,  
Daimler, Porsche, GM, Valeo, Saab, Scania,  
Delphi, Heuliez, Siemens, Autoliv, Case, Garrett,  
Johnson Control...

### Logistics Partners

Cilomate, Ewals, Geodis, Esmar, Simastock, ...