Magna IT EDI services

Supplier
Implementation guideline for
Electronic data interchange

Version 1.0
05.11.2009
# Version history

<table>
<thead>
<tr>
<th>version</th>
<th>date</th>
<th>comment</th>
<th>author</th>
<th>reviewed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>05.11.2009</td>
<td>Initial release</td>
<td>Stefan Tropper</td>
<td>Robert Seemann</td>
</tr>
</tbody>
</table>

...
1 Purpose & Principles ................................................................. 4
2 Scope ....................................................................................... 4
3 Contacts & Support ................................................................. 4
4 EDI message structure ............................................................. 5
5 Connection methods ............................................................... 5
   OFTP ....................................................................................... 5
   Mailbox / Van .......................................................................... 5
   Web EDI / SupplyWeb ............................................................. 5
   Other connection methods ..................................................... 6
6 Magna IT EDI System landscape .............................................. 6
7 EDI setup process .................................................................... 7
8 EDI quality and error handling ............................................... 7
1 Purpose & Principles

The supply of OEMs with material and goods is a highly integrated business process which is supported by a complex information flow between the customer, supplier and carrier. When looking at potential for improvement within the supply chain process the optimization of information streams regarding lead-times, reliability and cost-efficiency plays a major role.

By means of modern communication technologies, EDI (electrical data interchange) has evolved as data carrier replacing the paper document.

The following advantages are given when introducing EDI:

- **Improves data accuracy:**
  You can eliminate the need to re-enter data from paper documents and thus prevent potential data entry errors. It is estimated to be one-tenth the cost of handling its paper equivalent.

- **Reduces technical complexity:**
  With EDI, companies use standardized data formats to exchange documents. EDI allows companies using different systems to achieve computer-to-computer electronic exchange of business documents.

- **Accelerates information exchange:**
  The lead time between start and completion of order processing is greatly reduced. By timeous scheduling companies can plan production more accurately and thus reduce stock inventories.

- **Lowers personnel needs:**
  EDI can help companies reduce the need for personnel involved in paper business transaction processing.

It is MAGNA’s aim to interchange data with their business partners on an electronically way. Therefore Magna transmits EDI messages to suppliers free of charges. Information exchange in the form of paper is only acceptable for a low transfer volume or for temporary scenarios.

In addition MAGNA is offering a WEB EDI service to suppliers which are not EDI capable. The usage of this web-based portal allows Magna as well as the trading partner to benefit from the advantages of EDI.

2 Scope

This EDI-Guideline is valid for all plants which are served by Magna IT EDI services.

3 Contacts & Support

Support requests, incidents or questions have to be issued at the Magna helpdesk.

For EDI Support please email edi.support@magna.com
For SupplyWeb Support please email supplyweb@magna.com

Phone EU: +49 6093 9942 7820
Phone NA: +1 (905) 726 7299 OR +1 (616) 786 5611
Phone AP: +86 21 6165 1699
E-mail: magna.helpdesk@magna.com

The helpdesk is reachable 24x7. Tickets issued in German can only be handled during EU standard business hours.
For proper ticket handling following information has to be provided to the helpdesk:

- Magna plant / Magna site number
- Customer & Supplier number
- Communication method (ISDN, ENX, AS2, WEBEDI)
- Urgency of the issue

4 EDI message structure

Magna supports common European, North American as well as Global EDI standards. The interpretation and implementation of EDI messages is described in separate documents.

Following message standards are preferred for supplier EDI communication:

ANSI X.12
- 820 - Payment Order / Remittance Advice
- 830 - Delivery Schedule / Delivery Instruction
- 856 - Advanced Shipping Notice
- 862 - Shipping Schedule

VDA
- 4905 - Delivery Schedule / Delivery Instruction
- 4913 - Advanced Shipping Notice
- 4908 - Self Billing Invoice
- 4906 - Invoice

EDIFACT
- DELJIT D04B - Sequenced Just In Time Delivery

5 Connection methods

Magna’s potential EDI partners are spread all over the world. That’s why standard connection methods as well as regional exchanging mechanisms are supported.

OFTP

OFTP via ISDN or TCP/IP (ENX) is the preferred connection method for Magna in Europe. The actual OFTP parameters are listed in a separate data sheet.

Mailbox / Van

Data exchange via Mailboxes or VANs is the preferred method for Magna in North America. For details please get in contact with the Magna IT EDI team.

Web EDI / SupplyWeb

Some plants expect their suppliers to use Magna IT’s Web EDI solution SupplyWEB from INFOR. SupplyWEB is a web-enabled Supply Chain Management (SCM) solution that provides two-way communication of procurement, billing information and performance between a division and its suppliers.

Detailed user documentation is available under http://supplyweb.magna.com.
Other connection methods

Magna is highly interested in getting as many partners as possible connected via classic EDI. We are aware that especially small suppliers might not have a high sophisticated EDI solution in place. Therefore we provide alternative connection methods.

- FTP
- HTTP
- E5
- AS2

6 Magna IT EDI System landscape

The following picture shows a schematic overview about Magna IT’s EDI infrastructure. Technical details like IP addresses or ports will be provided during the setup process.

The arrows indicate the message flows between the ERP systems, EDI applications and communication gateways. As you can see SEEBURGER Business Integration Server (BIS) and Covisint Gateway are the main components in Magna’s EDI landscape.

- Seeburger BIS
  Magna is running 3 instances of BIS. One instance is used for integration tests only. Standard EDI traffic like basic logistic and financial processes are separated from high critical production synchronous signals. The proper connection details will be provided by EDI Team during the setup process.

- Covisint Gateway
  The Covisint Gateway is used for message routing only as it does not hold a converter engine. It supports the common communication methods for the North American market like, HTTP, E5 or AS/2.
7 EDI setup process

As it is of interests to Magna and its trading partners to minimise implementation effort and to ensure a high data quality of message flows an EDI setup process is in place.

The Magna IT EDI team will support partners during all implementation phases.

- **WebEDI**

  Magna IT is using INFOR SupplyWeb as WebEDI solution. SupplyWEB is a Web application which can be accessed from the internet via standard HTTP. As the diagram shows there are interfaces to Seeburger BIS, Covisint Gateway as well as to different ERP systems. The connection method mainly depends on the type of ERP system and level of EDI integration for the particular Magna plant.

  Seeburger BIS and Covisint Gateway are linked so all supported communication methods are available to suppliers across the globe.

8 EDI quality and error handling

Incoming EDI traffic will be checked for its syntax and for required information. The named EDI contact at the supplier will be informed if an EDI message cannot be processed or if there are data quality issues.

The claim process differs between the supported Magna plants. You might get charged for incorrect or late EDI messages by the plant’s logistic or IT department. You should find detailed information about this topic in the general logistic guidelines or supplier contracts.

....