



MAHLE Electronic Data Interchange (EDI) Guideline

Version 1.0

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List of Abbreviations

ASN	Advance Shipping Notice
Delivery date	Date on which material is delivered to MAHLE plant
EDI	Electronic Data Interchange
EDP	Electronic Data Processing
ERP	Enterprise Resource Planning
GTL	Global Transport Label
Pick-up date	Date on which material is collected from the Supplier's shipping docks
SAP Business Network (Ariba)	WebEDI solution at MAHLE
Transmission date	Date on which ASN is sent out to MAHLE
VDA	Verband der Automobilindustrie (German Association of the Automotive Industry)
VDA 4994	VDA Recommendation 4994 "Global Transport Label"

Document History

Version	Date	Changes
1.0	01.01.2025	Guideline creation



Contact

If you have any questions regarding the implementation of this guideline, please contact your responsible MRP Controller at the MAHLE plant to be supplied.

1. Introduction

As MAHLE navigates its way through a period of transformation, the implementation of its Electronic Data Interchange (EDI) becomes increasingly critical. EDI facilitates the seamless exchange of data between our systems and those of our partners, ensuring efficient and accurate communication.

Therefore, this **MAHLE Electronic Data Interchange (EDI) Guideline** provides suppliers with a comprehensive overview of the various options available for EDI.

It includes all the necessary information, documents, and links to the MAHLE Homepage required for a successful EDI connection.

This encompasses:

- **EDI Connection Types:** Details on Classic EDI and SAP Business Network (Ariba) (WebEDI solution at MAHLE).
- **Supplier Requirements:** What suppliers need to connect via EDI.
- **Technical Information:** Message formats and other technical details for Classic EDI.
- **Training and FAQs:** Links to training documents and frequently asked questions.
- **Contact Information:** Key contacts for various applications.

2. Definition of Electronic Data Interchange

a. General Description of Electronic Data Interchange

EDI refers to the exchange of data using electronic transfer procedures within Electronic Data Processing (EDP). The application systems of the participating companies or organizations are directly involved as senders, transporters, and recipients of the messages.

The use of EDI is a prerequisite for establishing a supply relationship with MAHLE. Suppliers are required to utilize EDI to both receive information from and send information to MAHLE. If suppliers do not have an existing EDI connection, it must be implemented in consultation with MAHLE according to the MAHLE onboarding process.

b. Business Processes via Electronic Data Interchange

The following business processes are among those supported via EDI:

- Transmission of scheduling agreement call-offs or single purchase orders from MAHLE to suppliers.
- Transmission of the delivery, packaging, and transport data via an Advanced Shipping Notice (ASN) from suppliers to MAHLE.
- Self-billing invoicing (SBI) (if legally permitted, on a country-specific basis)
- If delivery is destined for consignment stock: Withdrawal reports and stock movement list (unless otherwise regulated)

c. Benefits of Electronic Data Interchange

There are numerous advantages to utilizing EDI:

- **Cyber Security** – Data transmission over an EDI connection is much more secure than traditional communication channels.
- **Receipt of requirements in one place** – All call-offs and forecasts are received in your environment, ensuring MAHLE requirements are not overlooked.
- **Increased visibility** – An ASN is a confirmation that material is in transit. By using ASNs, deliveries can be tracked more accurately, and backlogs can be avoided. This benefits both parties, especially in the context of consignment stock.
- **Scorecards** – At MAHLE, we evaluate all suppliers based on the quality of their logistics, with the use of ASNs and GTLs being a key evaluation criterion. Suppliers who excel in this process may benefit from higher ratings, potentially leading to involvement in more future projects with MAHLE.

d. Connection types

The EDI connection between MAHLE and its suppliers can be established either via Classic EDI (refer to chapter [Chapter 3. Classic Electronic Data Interchange](#)) or via SAP Business Network (Ariba), which is the MAHLE WebEDI solution (refer to chapter [4. WebEDI: SAP Business Network \(Ariba\)](#)).

Please be advised that other WebEDI networks are also currently in use. These systems will remain in use until the transition to SAP Business Network (Ariba) is complete. As soon as changeover to the new system is planned, MAHLE will inform its suppliers in good time.

3. Classic Electronic Data Interchange

MAHLE is currently working on a dedicated website for Classic EDI. This will be published in the near future. As soon as this website is finalized, the link will be included in this guideline.

a. General requirements

A **Classic EDI** connection requires corresponding IT infrastructure on the part of the Supplier.

Accordingly, the following requirements must be fulfilled:

- Supplier's Enterprise Resource Planning (ERP) system is capable of receiving call-offs (schedule agreement)
- Supplier's ERP system is capable of transmitting ASNs (Advance Shipping Note) – at least with existing message formats – more detailed information in MORE Supplier Letter (ASN must be transmitted on pick-up date with estimated arrival date)
- Data is in accordance with an ASN standard included in our mapping
- Packaging information/structure available in ASN – material must be packed according to the instruction
- GTL (Global Transport Label) according to VDA standard 4994 (VDA Recommendation 4994 "Global Transport Label") and the MAHLE specific requirements, see MAHLE Global Transport Label (GTL) Guideline which can be found on the MAHLE Homepage > Purchasing > General guidelines and documents for suppliers (<https://www.mahle.com/en/purchasing/general-guidelines-for-suppliers/>)
- GTL license plate must be linked with an ASN handling unit ID

b. Message Formats

MAHLE is currently still using various message formats for Classic EDI connections. Due to the conversion of our systems, these old message formats will be replaced in the near future. However, they will remain valid until the changeover to the new MAHLE standard message format. As soon as changes are planned, MAHLE will inform its suppliers in good time.

The new global standard message format at MAHLE is **EDIFACT**.

c. Contact

Should you require further information on **business topics** related to Classic EDI, please contact your responsible MRP controller at the plant or your designated contact in Purchasing.

If you are already onboarded and have questions on **technical topics** related to Classic EDI, please contact the following EDI mailbox: edi-team@MAHLE.com

4. WebEDI: SAP Business Network (Ariba)

If the Supplier can't meet the MAHLE requirements for receiving call-offs, providing GTL and ASN, via Classic EDI, the SAP Business Network (Ariba) platform would be the mandatory solution.

For an initial overview of the SAP Business Network (Ariba), please visit the MAHLE Homepage > Purchasing > MAHLE goes Ariba (<https://www.mahle.com/en/purchasing/mahle-ariba/>).

This website offers a comprehensive range of training documents that provide detailed instructions on various procedures within SAP Business Network (Ariba). Additionally, you may find answers to frequently asked questions from our suppliers and mailboxes regarding any issues you may have.

a. Description of SAP Business Network (Ariba)

The Enterprise Account on the SAP Business Network (Ariba) provides suppliers with direct and easy access to the Supply Chain Collaboration functionality. This allows you to process orders and releases, send order confirmations (if required by MAHLE) and ASNs.

Additionally, the automatic packaging process generates labels and delivery notes. In case you have signed a consignment contract with MAHLE, you can also receive consignment withdrawals and track the actual stock level.

MAHLE is using SAP Business Network (Ariba) as a WebEDI tool to collaborate with suppliers around the globe for delivery processes. Suppliers are required to register one enterprise account to transact with MAHLE, and all fees related to transactions with MAHLE will be covered by MAHLE.

b. Training Documents and Videos

To support our suppliers in their use of SAP Business Network (Ariba), MAHLE has gathered a variety of training materials, including documents and videos, and made them available on the MAHLE Homepage > Purchasing > MAHLE goes Ariba (<https://www.mahle.com/en/purchasing/mahle-ariba/>). This content provides a detailed description of various processes within SAP Business Network (Ariba) (e.g. Scheduling Agreements, ASNs, Consignment).

c. Contact

We kindly request that you familiarize yourself with the information provided in the previous chapters and on the MAHLE Homepage first. There you will find detailed information on the various processes. If you still require further clarification on any of the aforementioned points, please do not hesitate to contact us.

Please find below a list of contact options, which may be used to address any queries or issues you may have. Depending on whether you are already connected via SAP Business Network (Ariba), you have the following contact options.

If you have **not yet connected** and have questions on the Onboarding Process, please contact the mailbox as stated on the MAHLE Homepage.

If you are already connected and have questions regarding ...

- **Business topics** – Please contact the responsible MRP controller at the plant or your designated contact in Purchasing.
- **Technical questions** – Please use the support function ("Procurement Help Center") in the SAP Business Network (Ariba).

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