Starter package for EDI connection
of business partners
MAN Truck & Bus SE

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Glossary

Concept	
A-Day	Day of transport notification
B-Day	Day of shipment processing/collection of the goods
DELFOR	EDIFACT delivery call-off
DESADV	EDIFACT delivery note
DIAL	Remote data transmission
DUNS	Data Universal Numbering System: a number system for the unique identification of companies
EDI	Electronic Data Interchange
EDIFACT	Electronic Data Interchange For Administration, Commerce and Transport
GLOBAL INVOIC	EDIFACT global invoice
JIS	Just in Sequence
JIT	Just in Time
LIAB	Abbreviation for delivery call-off
RAN	Abbreviation for delivery note
Delivery notification	Announcement of a shipment delivery
LP	Abbreviation for scheduling agreement/purchase order number
MN	Abbreviation for MAN Commercial Vehicles (company name of MAN Truck & Bus before 2011)
MTB	Abbreviation for MAN Truck & Bus
Odette ID	Unique identifier of a company in the automotive industry. Awarded by the VDA: https://en.vda.de/en/services/Publications/Publication.~734~.html
OFTP	Odette File Transfer Protocol
ORDERS	EDIFACT order
SCP	Supply Cockpit (MAN user system)
SFID	Start File ID
SLB	Shipment Load Reference Number
SNR	Article code
SSID	Start Session ID
Transport notification	Announcement of a required transport to a transport service provider
VDA	Association of the German Automotive Industry Publisher of the VDA Recommendations for EDI Communication
VDA 4905	Delivery call-off
VDA 4907	Remittance advice
VDA 4912	Accompanying document
VDA 4913	Delivery note
VDA 4915	Delivery call-off JIT (fine call-off)
VDA 4916	Delivery call-off JIS (production-synchronous call-off)
VDA 4938	EDIFACT Global Invoice
VDA 4983	Container (EDIFACT Global Invoice with attachments)
WebSCM	MAN web portal for EDI
VW SIT	Volkswagen Group Business Platform

1 EDI with MAN Truck & Bus

The structured electronic data exchange with business partners supports the supply of materials, parts, services and information to MAN that ensure continuous production and spare parts supply.

The document describes the handling of MAN's structured electronic data exchange with external partners and serves as a guide for setting up such connections and transmitting high-quality data.

As part of this starter package, material management and invoicing/payment advice are covered. The focus of this starter package is on the procurement side of production material for MAN, i.e. on the connection of suppliers.

EDI Communication

Supplier — Materialmanagement / Supply of Goods / Invoicing / Payment Notice — MAN
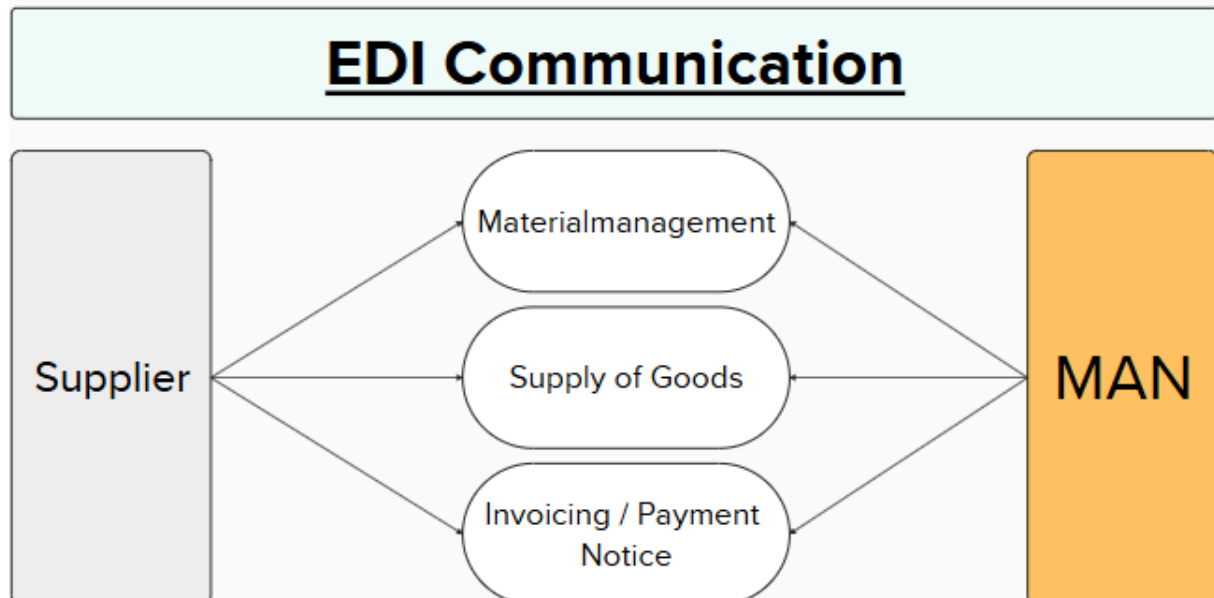
Illustration 1 Overview of data exchange with EDI

MAN's objective is to integrate all suppliers into the automated data exchange and to cover the entire process electronically, from delivery call-offs, transport notifications, ASNs, invoicing to payment advices.

Electronic data exchange is a basic prerequisite for a supply relationship with MAN.

The following chapters describe the mandatory connection of suppliers to the WebSCM web portal for the purpose of digital transport commissioning.

Furthermore, it describes what a direct EDI connection should look like.

Every MAN supplier must be connected to WebSCM for the purpose of transport notification.

In addition, there is the possibility of a direct EDI connection for the purpose of delivery and payment notification.

2 WebSCM Portal

For all suppliers who supply material in stock, onboarding to WebSCM is **mandatory.**

WebSCM is mandatory because transports must be ordered digitally.
WebSCM offers:

- Worklist Dispatch Proposals Based on the Delivery Schedules for Electronic Transport Notification on the A-Day (Transit Time Matrix)
- Overview of ordered and forwarder-confirmed transports

For suppliers without a direct EDI connection (non-EDI suppliers), the following functions are also mandatory in WebSCM for digital dispatch processing on the B-tag (transit time matrix):

- Dispatch of electronic shipping notifications

MAN	Automatisierter Prozess	Alle Lieferanten	Alle Gebietsspediteure	Non-EDI-Lieferanten *
SAP (MAN)	CRIS (VW)	WebSCM+ (RIO)	WebTMS (RIO)	WebSCM (RIO)
MAN-Lieferabruf (VDA 4905) / MAN-Einzelbestellung (teilautomatisch)	Routenterminierung und TDL-Ermittlung auf Basis der MAN-Laufzeitmatrix	Bündelung auf Versandvorschläge zur Vorbereitung der Plan-Sendung (inkl. Verpackung)	Tag A bis 12:00: Avisierung der Plan-Sendung	Tag A bis 17:00: Bestätigung des Transportauftrags	Tag B: Abholung und Avisierung der Ist-Sendung
			Transportauftrag VDA 4933 T1	Transportauftragsbestätigung VDA 4933 T3	Label VDA 4994 Sendungsbeleg VDA 4939 ASN VDA 4913/87

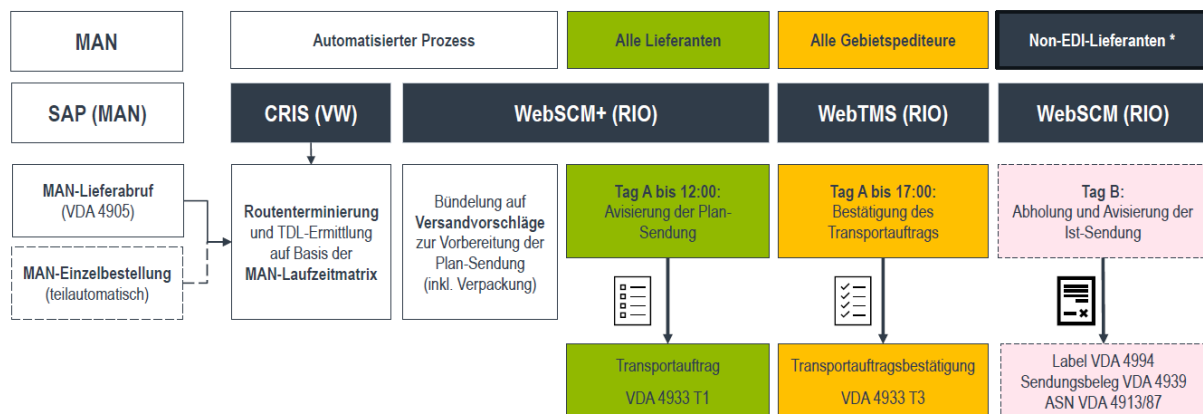**Illustration 2 WebSCM Portal Process Overview**

Advantages of WebSCM for the supplier:

- Modern web-based portal
- No investment costs for hardware and software
- No operating costs
- Efficient handling of all necessary logistical functions via a modern web interface that meets VDA standards
- Shipment and transport documents to be handed over to the carrier
- Goods tags for labeling the packages

2.1 Onboarding WebSCM

Expiration:

1. The supplier contacts the series buyer responsible for him at MAN to ensure that relevant master data on the logistical supply relationship is correctly mapped. This includes, among other things, master data for the supplier (vendor, DUNS, order address) and goods suppliers (vendor, DUNS, delivery address).
2. The serial buyer arranges for the EDI team to set up the dispatch of delivery schedules via EDI.
3. The supplier receives an email from the EDI team with all the necessary information about onboarding to WebSCM and appoints a Company Admin.
4. The Company Admin can create additional users himself and manage access rights (user, password, roles). Training materials and videos are available online.
5. After successful onboarding, the supplier receives a confirmation email. The onboarding process is now completed and WebSCM is available for the supplier to use.

If the supplier wants a direct EDI connection in addition to the connection to WebSCM, the following chapters are relevant.

3 EDI connection process

This chapter describes the process of connecting a supplier to MAN Truck & Bus SE. For this purpose, the procedure is described in the chapter 3.1 and the technical infrastructure in the chapter 3.2 depicted.

3.1 Flow chart

The EDI connection takes place in four phases:

- Preparation
- Setting up the communication link
- Test operation
    - Delivery call-offs (incoming messages from the supplier) and subsequent activation for productive operation
    - Delivery notes and invoices (outgoing messages from the supplier) with subsequent activation for productive operation
- Productive Switching

The potential partners for an EDI connection are contacted by MAN through the EDI team.

MAN sends the EDI starter packet, which provides the supplier with comprehensive information about supported processes and formats. The supplier examines the possibilities of implementing EDI on the basis of the technical procedures and formats specified by MAN.

In the first step, the line is set up and tested. For this purpose, the completed EDI parameter sheet (Annex 1). Please note that only this form is accepted by MAN Truck & Bus.

At the same time, the supplier may adapt its data preparation or data processing to the specifics of data exchange with MAN in order to ensure full compatibility with MAN's requirements.

The delivery schedules via EDI are activated first. At the same time, the supplier receives the fax/mail according to VDA 4905 to check the data received via EDI. The supplier shall take appropriate measures to ensure that the electronic releases are correctly processed and stored in its system. After the test phase, the data will only be transmitted electronically.
In the next step, the delivery note and invoice test phase will begin. MAN operates two systems running in parallel (see Illustration 3). One is for test operation, the other is supplied with productive data. The supplier is first created in the MAN test system. If a transmission takes place, the message is automatically forwarded to the respective system. In the test phase, the supplier sends its delivery notes/invoices to MAN via EDI and receives feedback on any errors

that may occur. After the error-free transfer has been ensured, the supplier is activated for productive operation and entered into the productive system.

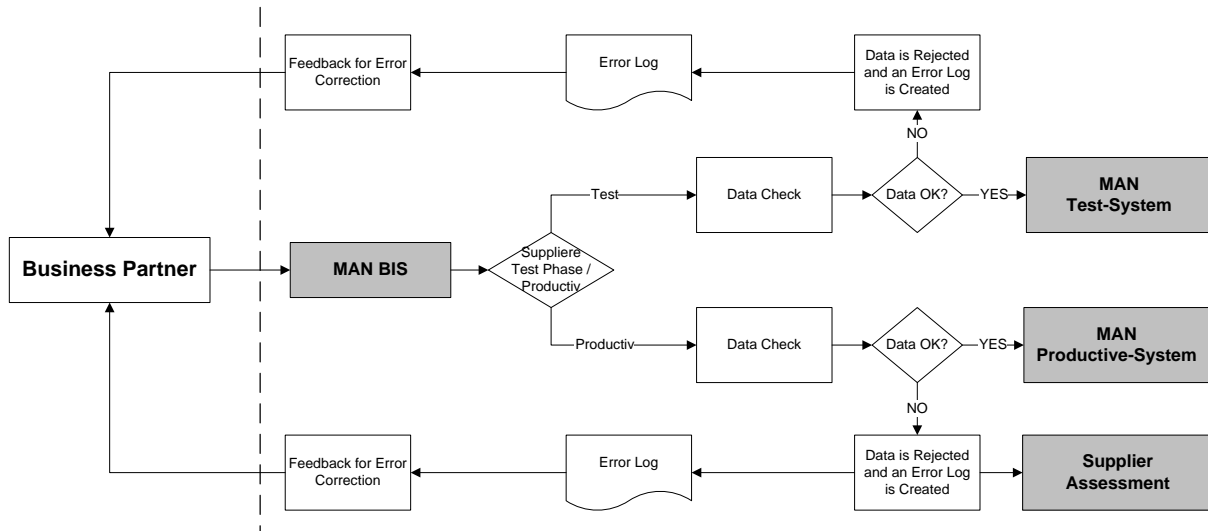**Illustration 3 Test / production connection**

During the test phase, there is intensive contact between the EDI team at MAN and the supplier in order to solve any remaining problems quickly and efficiently.

If further messages are to be used later for productive operation with the supplier, the test operation phase must be repeated for these messages.
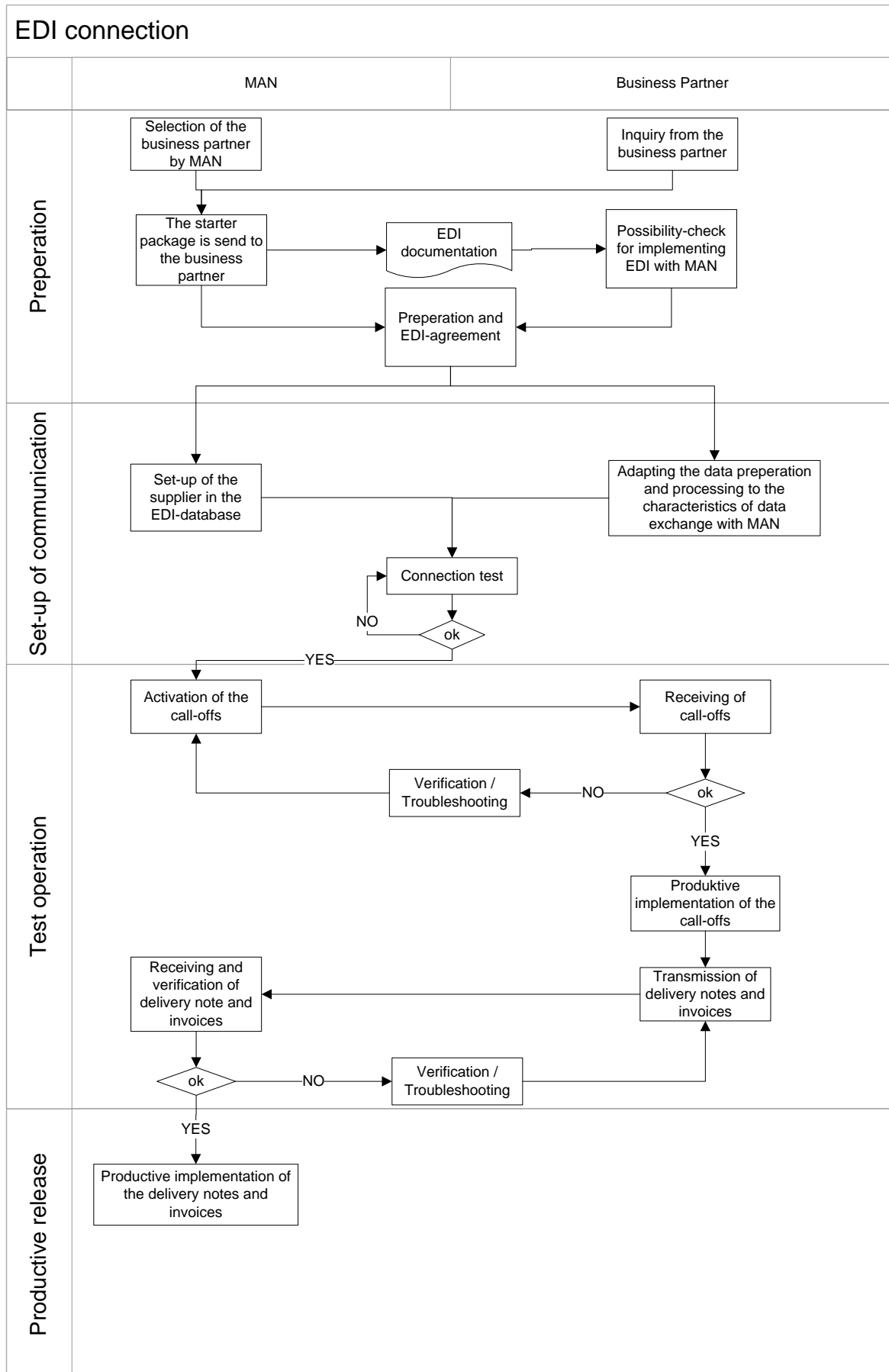The complete process is in Illustration 4 schematically.

EDI connection

	MAN	Business Partner

Preperation

- Selection of the business partner by MAN
- Inquiry from the business partner
- The starter package is send to the business partner
- EDI documentation
- Possibility-check for implementing EDI with MAN
- Preperation and EDI-agreement

Set-up of communication

- Set-up of the supplier in the EDI-database
- Adapting the data preperation and processing to the characteristics of data exchange with MAN
- Connection test
- ok — NO / YES

Test operation

- Activation of the call-offs
- Receiving of call-offs
- ok — NO → Verification / Troubleshooting / YES
- Produktive implementation of the call-offs
- Transmission of delivery notes and invoices
- Receiving and verification of delivery note and invoices
- ok — NO → Verification / Troubleshooting / YES

Productive release

- Productive implementation of the delivery notes and invoices

Illustration 4 EDI connection process

3.2 Technical infrastructure

The technical parameters of establishing the connection between MAN and the supplier are determined by both parties using the "EDI Parameter Sheet for Delivery Schedules / Delivery Notes / Invoices" (Appendix 1).

MAN uses OFTP2 communication to send and receive files. In order for received files to be assigned to the correct processing process, certain naming conventions must be observed.

On the supplier's side, any OFTP2 compatible system can be used. However, the file naming conventions are prescribed by MAN.

MAN supports the following communication channel: [1]

Production:

OFTP2 DNS Name	edi.man.eu
OFTP2 Port	6619
SSID	O0013000005MAN*MN**BPN
SFID	O0013000005MAN*MN**BPN

Test:

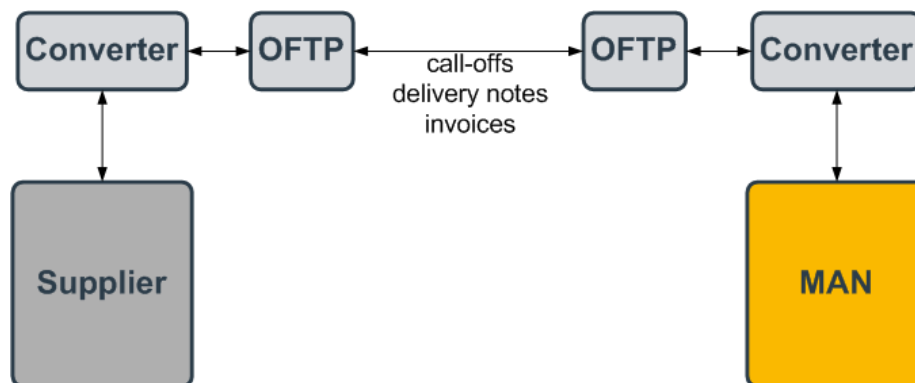|	
OFTP2 DNS Name	tedi.man.eu
OFTP2 Port	6619
SSID	O0013000005MAN*MN**BKN
SFID	O0013000005MAN*MN**BKN

Illustration 5 Transfer

Illustration 5 illustrates the technical structure of file transfer.

The structure of the file names is explained in chapter 3.3.

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[1] Note: For Odette IDs, * is a blank

3.3 Filename

The file names for the delivery schedules, delivery notes and invoices are defined according to a fixed scheme:

Delivery schedules (VDA 4905 or EDIFACT DELFOR):

DVA. BPN<Station ID >.**MN.** LIAB<Company ID>

Delivery schedules are sent centrally for all plants (MN instead of factory identifiers in the file name).

Individual orders (EDIFACT ORDERS):

DVA. BPN<Station ID >.**MN**. ORDER<Company ID>

Individual orders are placed centrally for all **SAP plants** (MN instead of factory code in the file name).

Delivery notes (VDA 4913 or EDIFACT DESADV):

DVA. BPN<Station ID >.**<Factory identification number>**. LIEF<Company ID>

Delivery notes are grouped together for individual MAN plants:

T**he factory code in the file name can only be "M", "Y" or "TR".**

M→   for Munich (M), PDC Deutschland Süd (EM), Nuremberg (N), Salzgitter (W),

Salzgitter Ersatz (ES), Krakow (C), Starachowice (F), Wittlich TMC (I), Munich TMC (Q)

Y→   for MAN Truck & Bus SE business unit Banovce (Y91) and Trencin (Y92)

DVA. BPNZEN.**TR**. RAN   (fixed file name for all suppliers)

TR→   for Ankara (T)

Invoices (EDIFACT GLOBAL INVOIC):

DVA. BPN<Station ID >.**<Factory identification number>**. GLI

Invoices are summarized for individual MAN plants:

Factory identifier in the file name can only be "M" or "Y".

M→   for Munich (M), PDC Deutschland Süd (EM), ,

Nuremberg (N), Salzgitter (W), Salzgitter Ersatz (ES), Krakow (C), Wittlich TMC (I), Munich TMC (Q)

Y→   for MAN Truck & Bus SE business unit Banovce (Y91) and Trencin (Y92)

In the case of invoice dial-up from companies with several branches or with service providers,
. GLI still appended the **<Company ID>**. Example: <Station-ID>.<Factory Identifier>. GLI

For invoices to the Polish plant (F), the file name is

DVA. BPN<Station ID >.**PL.**RECH<Company ID>

F→   for Starachowice (F)

Station ID and company ID are assigned by MAN at the line installation, the factory identification number can be found in Chapter 8.

With VDA, the files are transferred in ASCII encoding and a fixed block length of 128 bytes. Edifact messages must be sent unformatted as text, under no circumstances FB 128.

Examples of file names:
Station ID   = **ZEB** (to be determined for each supplier in the case of EDI connection equipment)
Company ID   = **AEF**

Example 1 (General delivery schedules)
→ File name: DVA. BPNZEB.**MN.** LIABAEF

Example 2 (individual orders in general)
→ File name: DVA. BPNZEB.**MN.** ORDERAEF

Example 3 (Delivery notes to Munich)
→ File name: DVA. BPNZEB.**M**. LIEFAEF

Example 4 (Delivery notes to Starachowice)
→ File name: DVA. BPNZEB.**M**. LIEFAEF

Example 5 (Delivery notes to MAN Components s.r.o. Banovce and Trencin (Y)
→ File name: DVA. BPNZEB.**Y**. LIEFAEF

Example 6 (Delivery notes to Ankara)
→ File name: DVA. BPNZEN.**TR**. RAN   (fixed file name for all suppliers)

Example 7 (Invoices according to MAN Components s.r.o. Banovce and Trencin (Y)
→ File name: DVA. BPNZEB.**Y**. GLI

Example 8 (Invoices to Munich)
→ File name: DVA. BPNZEB.**M**. GLI

Example 9 (Invoices to Nuremberg)
→ File name: DVA. BPNZEB.**M**. GLI

Example 10 (Invoices according to Starachowice)
→ File name: DVA. BPNZEB.**PL**. RECHAEF

For test messages to our systems, please use the file starting with **TEST.** forward:

Example 11 (test delivery note to Munich)
→ File name: **TEST.**BPNZEB.**M**. LIEFAEF

Example 12 (test invoice to Munich)
→ File name: **TEST.**BPNZEB.**M**. GLI

3.4 Overview of the plants of MAN Truck & Bus SE

Various IT systems are used in the plants of MAN Truck & Bus SE. This leads to different requirements for EDI communication. An overview is provided by the **Illustration 6**:

	Series Works			
	Munich	Salzgitter	Krakow/Niepolomice	Nuremberg
Factory code	M	W	C	N
Part of MAN Truck & Bus SE	MAN Truck & Bus SE	MAN Truck & Bus SE	MAN Trucks Sp. z o.o.	MAN Truck & Bus SE
SAP Plant	x	x	x	x
55 Framework Contract Numbers	x	x	x	x
B Framework Contract Numbers				
deviating invoicing agreement				

	Series Works			
	TMC Munich	TMC Wittlich	Starachowice	Ankara
Factory code	Q	I	F	T
Part of MAN Truck & Bus SE	MAN Truck & Bus SETruck Modification Center	MAN Truck & Bus SETruck Modification Center	MAN Bus Sp. z o.o.	MAN Türkiye A.S.
SAP Plant	x	x		x
55 Framework Contract Numbers	x	x		x
B Framework Contract Numbers			x	
deviating invoicing agreement			x	not possible

	Series Works		Spare parts plants	
	Steyr-KUL	Banovce/Trencin	PDC Germany South Dachau	Salzgitter
Factory code	K	Y	EM	IT
Part of MAN Truck & Bus SE	MAN Truck & Bus SE Business Unit L	MAN Components s.r.o	MAN Truck & Bus SE	MAN Truck & Bus SE
SAP Plant	x		x	x
55 Framework Contract Numbers	x		x	x
B Framework Contract Numbers		x		
deviating invoicing agreement		x		

Illustration 6 Overview of works

The materials management of the SAP plants differs from the other plants. In these, a one-dimensional delivery plan is used (55... framework agreement number/delivery call-off/order number). For this purpose, the information in the chapters 4.3 and 5.4 to be observed.

4 Delivery schedules

4.1.1 Scope

The process described here is used by suppliers who continuously supply material for production. The supplier receives delivery schedules with dates and associated quantities.

Receipt of the delivery call-off must be confirmed with an EERP. This EERP (Acknowledgement of Receipt) must be returned immediately either in the same transmission session or in a separate session. It is not allowed to send these EERP days or weeks later!

The supplier announces his deliveries with the so-called delivery note EDI. This data is the basis for posting the goods receipt when the delivery arrives.

4.1.2 Messaging

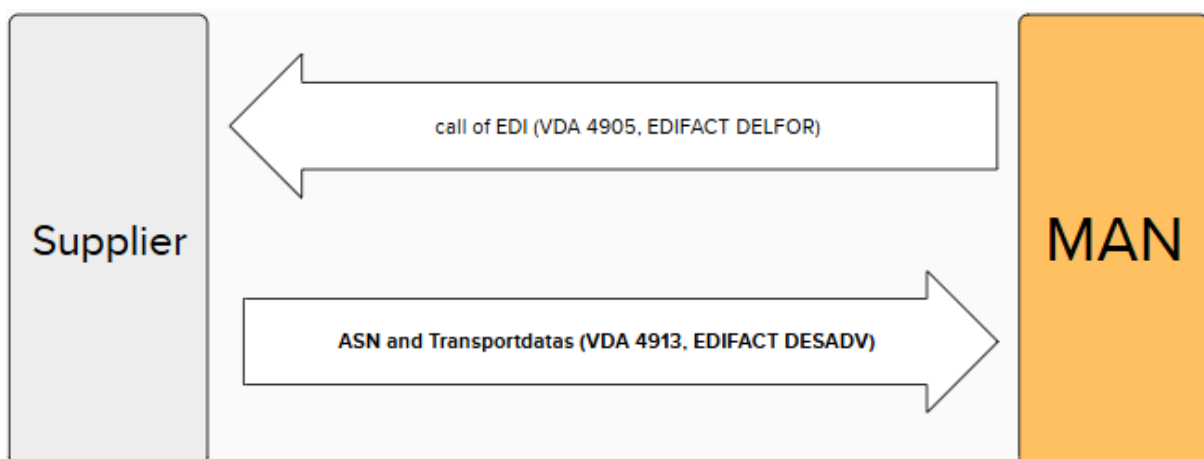This starter package will first cover the following message scenario:

Illustration 7 Message Exchange Material Management

Deliveries are announced electronically with ASNs (also known as delivery note EDI). The delivery note EDI must be transmitted when the goods are shipped so that a proper booking can be made when the goods arrive.

4.1.3 Formats used

Delivery call-off   VDA 4905, Odette EDIFACT Subset DELFOR/DELINS V4R1
Delivery note   VDA 4913, Odette EDIFACT Subset DESADV/AVIEXP V5R1

4.2 Delivery call-off dial-up

4.2.1 Definition and scope

The delivery schedule (order notification) received by dial-up contains the orders for the supplier's order address for all MAN Truck & Bus SE plants:
Key criteria are the following data:

- MAN part number and quantity
- Unit of quantity
- the MAN container part number + pack lot size (packing instructions)
- Accounts payable number
- the order number
- the factory license plate
- the unloading point
- Delivery date

The supplier must check this data at regular intervals to ensure that it is up-to-date, and update/adapt in its systems as appropriate.

For the exact field description for delivery schedules in accordance with VDA 4905, please refer to the appendix 2. Appendix 4 describes the delivery call-off according to Odette DELFOR/DELINS V4R1.

The receipt/receipt of the delivery schedules must be confirmed with an EERP.

Due to the system, only one customer number is transmitted in the delivery call-off. The separation by works is carried out by the factory code (see Chapter 8), which is transferred in sentence type 512, field 03 "Plant Customer".

Example:
```
51102123456789123456789000001000020801010712 31
     Customer number of the Munich plant
51201M 000000002080101000000000107123181.12345-1234 P0.00000-001...
     Factory code
51301…
```

4.3 Special features of delivery schedules from SAP plants

SAP plants (see Illustration 6)

*(W) Salzgitter Special feature: Delivery on behalf of Scania supplier (NDA). Recognizability in the delivery schedule as follows: Partner number E2EDEKA1003 field → PARTN →SC1 or field → BNAME → EkGrp NDA Scania always separate delivery note dial-up data/SLB no

The scheduling agreements are generated on a plant-by-plant basis with reference to a central contract. Each scheduling agreement contains exactly one line item with item number 10. The scheduling agreement number consists of 10 numbers and starts with 55* (e.g. 5500123456) - see Illustration 8.
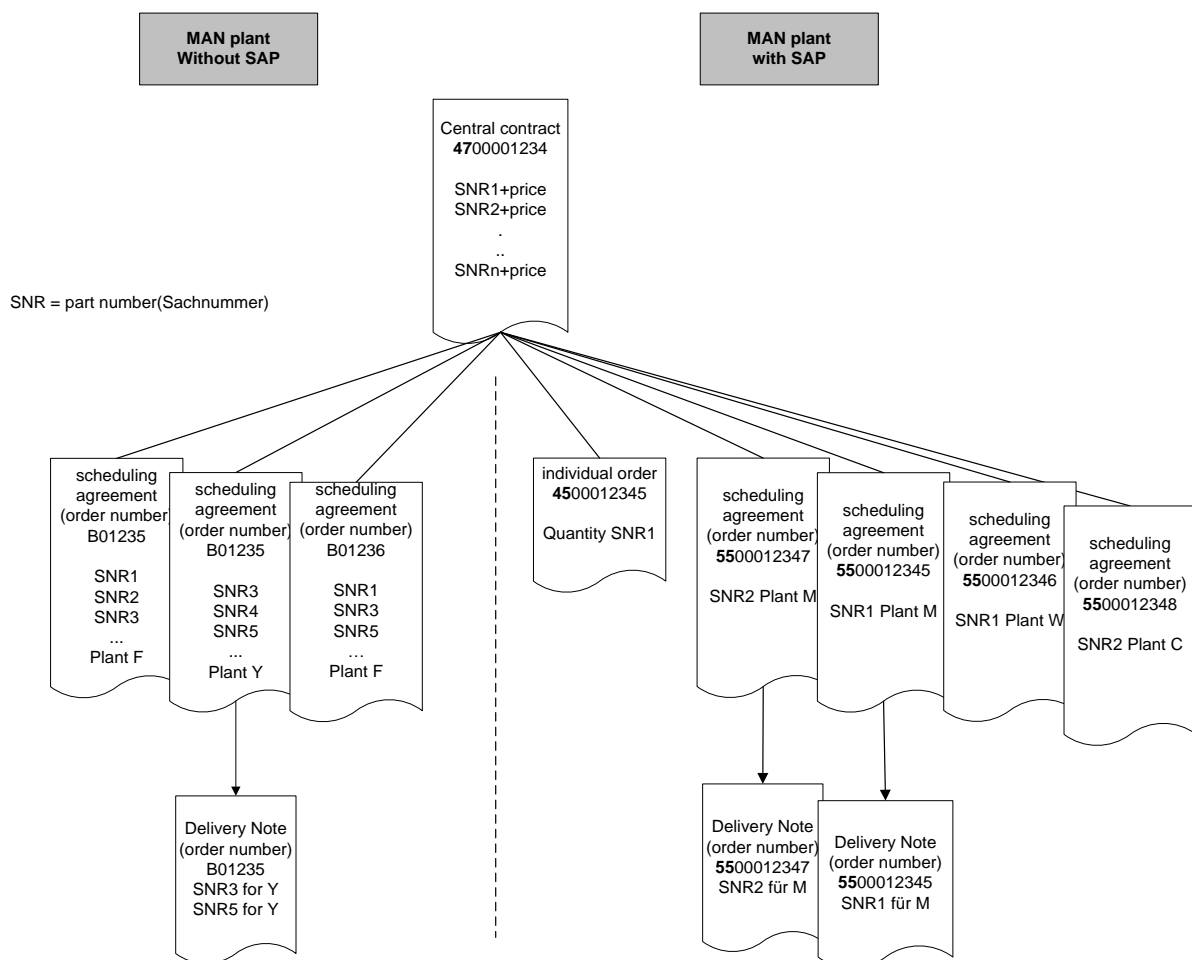

Illustration 8 Difference between the SAP plant and not the SAP plant

This results in special requirements for the delivery note - EDI (see Chapter 5.4)

As a rule, there is a 1:n relationship between central contract 47XXXXXXXX and order number BXXXXX; in special cases, there are different order numbers for certain MAN plants (e.g. B01235 and B01236).

4.4 Production-synchronous releases (JIT / JIS)

For details on the EDI connection for JIS call-offs, please refer to the documentation "EDI Manual - EDI Process Description for JIT / JIS Delivery in the Trailer Kanban Principle at MAN Truck & Bus SE", which will be made available to you if required.

4.5 Single Order Dial-Up – Odette EDIFACT ORDERS

For all SAP plants (see Figure 6) of MAN Truck & Bus SE, individual orders (e.g. 42xxxxxxxx or 45xxxxxxxx). However, this only applies to the purchasing document type Normal Purchase Orders (NB), because only here can the material part numbers always be entered. Parallel to the data transmission, a print edition of the individual order will continue to be issued.

The receipt of the individual order must be confirmed again immediately with an EERP – either in the same broadcast session or in a separate one.
As with the delivery schedules, the supplier is expected to provide a delivery note dial-up (VDA4913) in return.

For the exact field description of the individual order, please refer to our Guideline – Appendix 5 Single Order-Dial-Up.

5 ASNs / Delivery Notes

5.1.1 Scope

With this exchange of messages, goods delivery data is exchanged between the supplier or external service provider commissioned by the supplier (MAN transport service provider) and MAN Truck & Bus SE.

5.1.2 Data transmission

The transmission of the EDI delivery data must be carried out at the time of collection at the dispatching plant (goods supplier/loading point). In the transfer notification, the identical goods vendor number must be transmitted as in record type 711_14. If the transport partner no. If the MAN transport service provider does not know this number for record type 712_13, this number must be obtained from the MAN freight forwarder or from MAN Transport Logistics. If the transport is at the sender's expense, the number 76767676 must then be entered in the corresponding field.

For deliveries made on the basis of individual orders, the following framework conditions must be observed. Delivery notes via EDI for individual orders from SAP plants (order numbers 42XXXXXXXX and 45XXXXXXXX) can be processed. The remaining individual orders (order numbers MXXXX and FXXXX) cannot be processed at the moment.

5.2 Delivery note EDI – (after) VDA 4913

The EDI of delivery note data is implemented on the basis of the VDA standard 4913 version 03. The prescribed mandatory fields must be filled in and the SLB/EDI consignment number must not be repeated within one year.

- A new SLB number/dial-up consignment number must always be assigned to each unloading point (storage area).
- If the corresponding batch number must also be entered in record type 714_14 for certain material, it is particularly important that if there are several batch numbers, an extra delivery item and delivery note number is always entered when data is entered.

The load carriers and packaging aids used must always be entered in set type 715 with the corresponding MAN container part number, number of pack lot sizes and the item number of the associated goods, under the corresponding material unit number (record type 714).

Example of single-stage packaging:

Sentence type	Article code	Quantity	Filling quantity (per container)	Position
714	81.98471-0001	2000 pcs		010
715	09.84019-0002	2 pcs	1000 pcs	010
714	81.98471-0815	500 pcs		020
715	09.84019-0003	1 pc	500 pcs	020

Example of multi-stage packaging (KLT + Euro flat pallet + cover plate):

Sentence type	Article code	Quantity	Filling quantity (per container)	Position
714	06.58471-0025	2000 pcs		010
715	09.84019-0522	4 pcs	500 pcs	010
715	09.84019-0010	1 pc	0 pcs	010
715	09.84019-0207	1 pc	0 pcs	010
714	06.81501-0101	212 pcs		020
715	09.84019-0520	7 pcs	30 pcs	020
715	09.84019-0520	1 pc	2 pcs	020
715	09.84019-0010	1 pc	0 pcs	020
715	09.84019-0207	1 pc	0 pcs	020

Example of multi-stage packaging (EPP + carrier container):

Sentence type	Article code	Quantity	Filling quantity (per container)	Position
714	06.58471-0025	20 pcs		010
715	09.84019-1047	4 pcs	5 pcs	010
715	09.84019-0956	1 pc	0 pcs	010
715	09.84019-0957	1 pc	0 pcs	010

The exact field description and specifications for the delivery note EDI can be found in the attached Appendix 3 in the "User Manual VDA 4913". Prescribed "must fields" must be filled with the correct and complete data. If a third-party container or disposable packaging is used, the container number 09.84019-0091 must be recorded with the corresponding data.

5.3 Delivery note data transfer with Odette EDIFACT DESADV

If the data transfer of delivery note data is based on the Odette EDIFACT message DESADV/AVIEXP, data elements and segments must be filled before delivery. Here, an M stands for must, and essential for recipients of the EDI message.

A data exchange (UNB... UNZ) can contain 1..n DESADV. Each DESADV message represents a shipment (dial-up shipment number).
A new SLB/EDI consignment number must always be assigned for each unloading point (storage area).

For deliveries to MAN with single-type packaging, the packaging information in SG11 (PAC-MEA...) is expected to precede SG15 (LIN-PIA...) with information on part number, quantity, etc., e.g.:

...

CPS+1++1'	Packaging hierarchy, position 1, inner packing
PAC+2++09.84019-0002::92'	2 packages of type 0002
QTY+52:1000:PCE'	1000 pieces per package
LIN+++81.50511-1002:IN'	Part number MAN: 81.50511-1002
QTY+12:2000:PCE'	Delivery quantity 2000 pieces
CPS+2++1'	Packaging hierarchy, position 2, inner packaging
PAC+1++0003::92'	1 package of type 0003
QTY+52:500:PCE'	500 pieces per package
LIN+++81.50511-1003:IN'	Part number MAN: 81.50511-1003
QTY+12:500:PCE'	Delivery quantity 500 pieces

...

For mixed packaging, the packaging information must be provided in SG11, which precedes the part items (SG15); e.g.:

...

CPS+1++1'	Packaging hierarchy, position 1, inner packing
PAC+3++0002::92'	3 packages of type 0002
QTY+52:15:PCE'	Not used in this scenario
LIN+++81.50511-1003:IN'	Part number MAN: 81.50511-1003
QTY+12:30:PCE'	Delivery quantity 30 pieces
LIN+++81.50511-1004:IN'	Part number MAN: 81.50511-1004
QTY+12:15:PCE'	Delivery quantity 15 pieces

...

Enclosure 6 contains MAN's application description for the use of the Odette EDIFACT DESADV/AVIEXP.

5.4 Special features of delivery notes to SAP plants

Delivery note number

The one-dimensional scheduling agreements used in the SAP plants result in one delivery note for each part number on the basis of VDA 4913 Purchase Order/Scheduling Agreement Assignment at the delivery note level. A consignment number may contain a maximum of one unloading point, but several delivery note numbers/delivery note items, i.e. several part numbers.

Transport

From the 4.2 In the case of a physical delivery, a physical delivery results in a high number of delivery notes. For this purpose, the SLB number must be listed in the record type 712 field 03. This includes the n-different delivery note numbers. This means that the transport with all delivery notes contained therein can be quickly collected on the MAN side.

Examples

Transport: 4711

LSNR. 1	→	Delivery Schedule 1	Unloading point 1
	→	SNR 1	Quantity 12
LSNR. 2	→	Delivery Schedule 2	Unloading point 1
	→	SNR 2	Quantity 8
LSNR. 3	→	Delivery Schedule 3	Unloading point 2
	→	SNR 3	Quantity 6

Example of delivery note according to VDA 4913:

713	LS-NR	Deal/Purchase Order Number = Scheduling Agreement Number1
714	SNR1	Total amount of SNR1
713	LS-NR	Close/Purchase Order Number = Scheduling Agreement Number2
714	SNR2	Total amount of SNR2
713	LS-NR	Completion/Purchase Order Number = Scheduling Agreement Number3
714	SNR3	Total amount of SNR3
:	:	:

Example
```
713 0815 5500123456
714 81.12201-5686 12 PCS
713 0816 5500234567
714 81.12201-5690 08 ST
…
```
In an EDIFACT DESADV, this is mapped as follows:

  ...

  LIN+++81.12201-5686:IN'   MAN part number 81.12201-5686

  QTY+12:12:PCE'   Delivery quantity 12 pieces

RFF+AAU:0815:1'	Delivery note number 0815, item 1
RFF+AAN:5500123456'	Delivery call-off 5500123456
...	
LIN+++81.12201-5690:IN'	MAN part number 81.12201-56990
QTY+12:8:PCE'	Delivery quantity 8 pieces
RFF+AAU:0816:1'	Delivery note number 0816, item 1
RFF+AAN:5500123457'	Delivery call-off 5500123457
...	

5.5 Faulty data transmission

If the data transfer is incomplete or incorrect, the data will not be transferred. In certain cases, an error log is sent to the supplier, which contains the dial-up run number with the incorrect delivery note data.

Dial-up data may not be automatically resent if there is no error log from MAN. In this case, the MAN material manager must be informed of the error in writing so that the corresponding goods receipt corrects the deviation.

The corrected delivery note data must be sent again until the goods arrive at the MAN plant. Attention: Serial numbers are not checked.

<u>Notice:</u>

If missing or incorrect dial-up consignment data results in additional costs during the recording of the warning receipt or in the warehouse, MAN reserves the right to take recourse accordingly.

6 Invoicing / Remittance Advice

6.1.1 Scope

Suppliers can transmit invoice data electronically to the producing German, Slovakian and Polish plants as well as to the sales companies in Germany, Austria and France in order to invoice deliveries and services at the agreed intervals. Invoices at MAN are audited on the basis of existing contracts, agreed prices and booked goods receipts.

Corrections and changes are communicated in the form of credit notes or debit notes.

If desired, payments initiated by MTB SE are displayed to the supplier in the form of electronic remittance advices, which contain not only the payment amount but also the references to the invoices to be settled with them, thus facilitating internal booking at the supplier.

It is imperative that the individual business units of MAN and
their parts of the company to create separate invoices. To this end, it is necessary to
Separate customer numbers for the business units can be set up at the supplier
and separate dial-up number ranges can be used for the invoice dial-up.

Each batch of invoices (one invoice EDI at a time) may only contain individual invoices with the
same VAT rate. If parts or services are charged
that fall under different VAT rates, separate batches of invoices must be
can be generated. A separate dial-up run must take place for each customer number.

Each batch of invoices is checked upon receipt before it is processed for accounting purposes
becomes. The requirements of VDA 4938 (EDIFACT GLOBAL INVOIC) / VDA 4983
(invoices with invoice-relevant attachments) must be fulfilled
(syntactic examination)
See also: Attachments Starter Package EDI Connection (Appendix 7 – Global_Invoic.pdf)

In addition, the logical test is carried out in accordance with the rules of VDA 4938 / VDA 4983.
In case of errors, the supplier must correct the data and send it again.
The supplier must ensure that the responsible tax office and the auditor are informed about the use of the invoice EDI.

At the beginning of the productive data exchange (EDI), MAN as the invoice recipient must be notified in writing of the responsible tax office of the invoice issuer.

6.1.2 Data transmission

All invoices are transferred based on material deliveries and services for which the "Order No. Customer".

The order with the customer part number, if not available, with the MAN order item, must be taken into account for data transmission in the LIN+1 segment.

Coupling the order data via data transmission with the invoice data transmission is not a prerequisite for remote data transmission.

Before the test phase, the supplier must have assigned a customer number for each business unit and communicate it to MAN.

The respective contact persons for invoices can be found in the table in Chapter 7.

6.1.3 Messaging
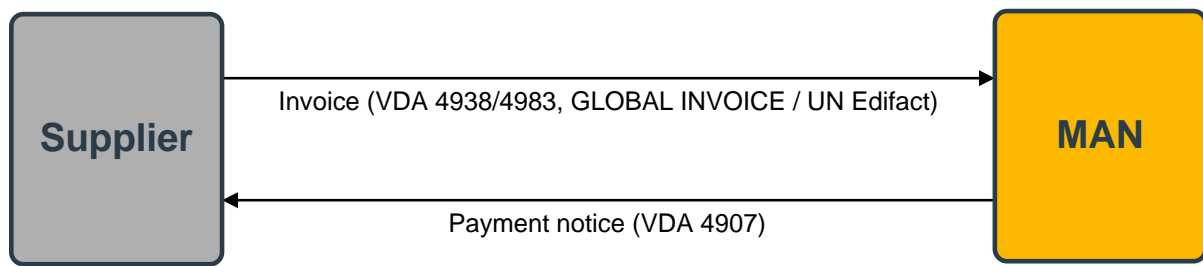
Illustration 9 Messaging Accounting / Payment

The VDA 4983 container contains:
- Standard Business Document Header (additional segment "SBDH")
- EDIFACT message(s). (VDA4938 data).
- Attachment(s) + Image.

This must be supplied with every invoice EDI based on VDA4983.

6.1.4 Formats used

Invoice	VDA 4938 / VDA 4983 (invoices with invoice-relevant attachments),
	Odette EDIFACT INVOIC V5R1/V5R2
Remittance advice	VDA4907

6.2 Invoice EDI - VDA 4938/VDA 4983

The Global Invoice / UN Edifact format meets all VAT requirements for use without a totals sheet.

In the case of electronic invoicing, all legally relevant criteria according to §14 UStG must be met.

Invoicing excluding VAT, the reason for tax exemption is expected in the FTX+TXD segment.

Suggested text: Tax-free intra-community supply
                       Tax-free delivery from a third country

Possible fee reductions must be reported in the FTX+CHG segment.

Suggested text: There are reductions in remuneration resulting from the agreement
                       made by XX.XX.XXXX (DATE)

Sample messages of a commercial invoice for production material can be found in the MAN Guideline Version 1.0 UN D.07A S4, pages 137 – 140.

6.3 Remittance Advice - VDA 4907

In connection with the payment, MAN Truck & Bus SE can issue a remittance advice in accordance with VDA
4907 and in it the invoices to be settled with the respective payment
reference.
For a detailed field description of the Remittance Notification Dial-up, please refer to the VDA
4907 documentation.

6.4 Faulty data transmission

The invoice check run at MAN determines whether the invoice batch was found to be "in order" or rejected due to errors.

In the event of rejection, any error will be documented and communicated in writing, by e-mail.

A distinction is made between structural errors and content errors (e.g. no individual amounts and net amounts, the lack of tax requirements).

Depending on the error, the erroneous invoices must be retransmitted after reconciliation.

Please note: For safety reasons (in case of a necessary
corrected repetition) records the transmitted data for at least 4 weeks.

7 Contact

7.1. MAN

General contact persons

MAN – all plants and sales companies	EDI Team	phone:	Phone: +49(0)89 1580-4021
		Mail:	EDI-Team@man.eu

Contact person for technical communication

EDI connection establishment Dial-up troubleshooting	EDI Team	phone:	Phone: +49(0)89 1580-4021
		Mail:	EDI-Team@man.eu

Contact WebSCM Portal

MAN Truck & Bus SE	EDI Team	phone:	Phone: +49(0)89 1580-4021
		Mail:	EDI-Team@man.eu

Contact person for invoices

MAN – all plants and sales companies	Mrs. Grabowska Malgorzata	phone:	+491724234791
		Mail:	malgorzata.grabowska@man.eu

7.2. IT-EDI Contact Supplier

If the responsible contact persons for IT-EDI change at suppliers, suppliers are obliged to inform the MAN contact persons from Scheduling and Procurement known to them immediately.

8. Delivery address and billing address

Delivery	Factory identification number	Unloading point	Address for account
MAN Trucks Sp. z o.o. Ul. Rudolfa Diesla 1 32-005 Niepolomice Poland	C	*)	MAN Trucks Sp. z o.o. Ul. Rudolfa Diesla 1 32-005 Niepolomice Poland VAT ID No. PL5262851977
MAN Truck & Bus SE Dachauer Straße 667 80995 Munich	M	*)	MAN Truck & Bus SE Central Divisions/GE H - Munich P.O. Box 50 06 04 80976 Munich VAT ID No. DE811125281
MAN Truck & Bus SE Vogelweiherstraße 33 90441 Nuremberg	N	*)	MAN Truck & Bus SE GE Motors - Nuremberg P.O. Box 50 06 06 80976 Munich VAT ID No. DE811125281
MAN Truck & Bus SE Heinrich-Büssing-Straße 1 38239 Salzgitter	W	*)	MAN Truck & Bus SE GE H - Salzgitter P.O. Box 50 06 05 80976 Munich VAT ID No. DE811125281
MAN Truck & Bus SE Truck Modification Center Otto-Hahn-Straße 31 54516 Wittlich	I	*)	MAN Truck & Bus SE[2] Truck Modification Center P.O. Box 50 06 04 80976 Munich VAT ID No. DE811125281
MAN Truck & Bus SE Truck Modification Center Dachauer Straße 667 80995 Munich	Q	*)	MAN Truck & Bus SE Truck Modification Center P.O. Box 50 06 04 80976 Munich VAT ID No. DE811125281

*) Applies to all unloading points of this MAN plant.

Delivery	Factory identification number	Unloading point	Address for account
MAN Truck & Bus SE PDC Germany South Max-Planck-Straße 1 85221 Dachau	EM	VZD	MAN Truck & Bus SE PDC Germany South P.O. Box 50 06 24 80976 Munich VAT ID No. DE811125281
MAN Truck & Bus SE Hall 21 Returns Heinrich-Büssing-Straße 1 38239 Salzgitter	IT	ES1	MAN Truck & Bus SE GE After Sales Spare Parts P.O. Box 50 06 24 80976 Munich VAT ID No. DE811125281
MAN Truck & Bus SE Industriestrasse Mitte 2 38239 Salzgitter	IT	ES2	MAN Truck & Bus SE GE After Sales Spare Parts P.O. Box 50 06 24 80976 Munich VAT ID No. DE811125281
MAN Bus Sp. z o.o. Ul. 1 Maya 12 27-200 Starachowice Poland	F	*)	MAN Bus Sp. z o.o. Ul. 1 Maya 12 27-200 Starachowice Poland VAT ID No. PL5342082736
MAN Türkiye A.S. Esenboga Havalimani Yolu 22 km Akyurt 06750 Ankara Türkiye	T	*)	MAN Türkiye A.S. Esenboga Havalimani Yolu 22 km Akyurt 06750 Ankara Türkiye VAT ID No. Çubuk - 6110048927
MAN Components s.r.o. Partizànska 916 957 01 Bànovce nad Bebravou Slovakia	Y91	*)	MAN Components s.r.o. Partizànska 916 957 01 Bànovce nad Bebravou Slovakia VAT ID no. SK2022082007 Freight Suppliers:VAT ID No. DE811125281
MAN Components s.r.o. Chocholnà 1960/125 913 04 Chocholnà-Velćice Slovakia	Y92	*)	MAN Components s.r.o. Partizànska 916 957 01 Bànovce nad Bebravou Slovakia VAT ID no. SK2022082007

*) Applies to all unloading points of this MAN plant.

9. Appendices

1. Form "EDI Parameter Sheet for Delivery Schedules / Delivery Notes / Invoices"
2. Delivery call-off dial-up of MAN SE in accordance with VDA 4905
3. ASN EDI to MAN SE in accordance with VDA 4913
4. Delivery call-off data of MAN SE acc. to Odette EDIFACT DELFOR/DELINS V4R1
5. Single order EDIFACT ORDERS of MAN SE in accordance with Odette EDIFACT ORDERS
6. ASN data transmission to MAN SE in accordance with Odette EDIFACT DESADV/AVIEXP V5R1/V5R2
7. Invoice EDI to MAN SE in accordance with VDA 4938 (Global Invoice/UN Edifact)
8. Invoice EDI to MAN SE in accordance with VDA4983 (Global Invoice/UN Edifact with attachments)
9. EDI – Goods consignment note and assignment to EDIFACT DESADV
10. Sample messages