BAAN IVc4

Definition of BEMIS 1.2.a Import and Export File for the Message Type Shipment Notification

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About this document

This documentation details the standard in-house data formats, which the BAAN Electronic Message Interchange System BEMIS requires as interfaces to the appropriate EDI subsystem.

The documentation is intended for developers of EDI subsystems, which want to realize an interface with BAAN IV. Furthermore, this documentation helps consultants, who want to implement an interface on this basis, to check the correct data contents of the transfer files. Important fields are identified with both the English and German terms, to assist German-language speakers using this documentation.

This documentation describes the EDI message *incoming* and *outgoing shipment notifications*.

Chapter 1 describes the structure of the interface file, the different record types within the file and the used key fields.

Chapter 2 details every single record type of the message. This chapter contains an overview table with the corresponding BAAN table fields. In addition, every single field is more detailed.

1 Documentation of the record types

The following section of the documentation details the BAAN ELECTRONIC message in-house format “Shipment Notification”.

Available record types of the message type shipment notification

The use of the following record types is conditional (C) respectively mandatory (M), when you transfer information of a shipment notification by means of the messages VDA 4913 („*Datenfernübertragung von Lieferschein- und Transportdaten* (*direkter Austausch zwischen Kunde und Lieferant*)“)[1] or ODETTE AVIEXP.

The shipment notification message (in-house format) consists of the following records:

ID	Status	Name
SA1	M	Message Overhead
SA2	M	Loading Header
SA3	M	Shipping Note Header
SA4	M	Shipping Note Position
SA5	C	Packaging Position

1 Remote transfer of shipping note and transportation data (direct transfer between customer and supplier)

Structure of the shipment notification message (in-house format)

The following record structure is used for the message type BEMIS shipment notification:

Level	Record ID	Status	Name
1	SA1	M/1	Message Overhead
2	SA2	M/1	Loading Header
3	SA3	M/R	Shipping Note Header
4	SA4	M/R	Shipping Note Position
5	SA5	C/R	Shipping Note Packaging Position

Branching diagram

The branching diagram shows the structure of the message. It indicates the hierarchical relationship between segments. A segment is a set of functionally-related BAAN tables.

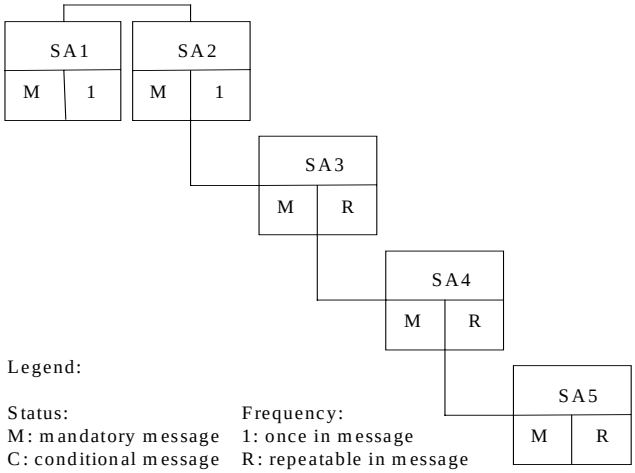


Figure 1, Branching diagram

For example, for one message, which consists of one shipment with two shipping notes with several shipping note positions and packaging positions, the BEMIS file has the following structure:

SA1 ...	Message Overhead
SA2 ...	Loading Header
SA3 ...	Shipping Note Header 1
SA4 ...	Shipping Note Position 11
SA5 ...	Packaging Position 111
SA5 ...	Packaging Position 112
SA4 ...	Shipping Note Position 12
SA5 ...	Packaging Position121
SA3 ...	Shipping Note Header 2
SA4 ...	Shipping Note Position 21
SA5 ...	Packaging Position 211
SA5 ...	Packaging Position 212
....	
SA1	Message Overhead New Message

Shipment notification - key fields

The following structure of the key fields is used to determine the corresponding records of a shipment notification:

Record type	Key field 1	Key field 2	Key field 3	Key field 4	Key field 5	Key field 6
SA1	Message Reference	Network address customer/supplier				
SA2	Message Reference	Network address customer/supplier	Master Bill of Lading No.			
SA3	Message Reference	Network address customer/supplier	Master Bill of Lading No.	Shipping Note No.		
SA4	Message Reference	Network address customer/supplier	Master Bill of Lading No.	Shipping Note No.	Shipping Note Position	
SA5	Message Reference	Network address customer/supplier	Master Bill of Lading No.	Shipping Note No.	Shipping Note Position	Packaging Position

Network directories

The so-called network directories form the basis of the communication between the EDI subsystem and BAAN IV. These directories are established in BAAN. The network basis directories for each network are defined in the BAAN session tcedi0120m000. For the network BEMIS, the basis directories can be indicated in the following way:

/auto3/baanIV/bemis/lieferavi

BAAN will additionally create the following subdirectories:

/auto3/baanIV/bemis/lieferavi/appl_from/
/auto3/baanIV/bemis/lieferavi/appl_to/
/auto3/baanIV/bemis/lieferavi/command/
/auto3/baanIV/bemis/lieferavi/store_recv/
/auto3/baanIV/bemis/lieferavi/store_sent/
/auto3/baanIV/bemis/lieferavi/trace/

The above mentioned directories have the following function:

1. .../appl_from/: In this directory, BAAN IV records the outgoing messages which are the defined BEMIS in-house format files. The EDI subsystem can collect them from here.
2. .../appl_to/: The EDI subsystem writes the incoming message into this directory in the BAAN IV in-house format.
3. .../command/: Directory of the semaphores.
4. .../store_recv/: BAAN IV stores in this directory processed incoming messages, if the configuration is accordingly. During this process an additional subdirectory by incoming message file is created which is named with a date and time stamp indicating when the message was moved.
5. .../store_sent/: BAAN IV stores in this directory processed outgoing messages if the configuration is accordingly. During this process an additional subdirectory by outgoing message file is created which is named with a date and time stamp indicating when the message was moved.
6. .../trace/: BAAN creates under this directory a log of the incoming and outgoing messages in the processing order, if the configuration is accordingly.

For every message type one network directory is used for outgoing and one for incoming messages. This means that one message file contains data for several partners.

The file name of the BEMIS in-house format file of the shipment notification, which is being described in this documentation, is defined in the following way:

Direction	File name	Network directory
outgoing	LFAVIS.OUT	../appl_from
incoming	LFAVIS.IN	../appl_to

BEMIS Messages – Conventions

The following general rules apply to a message record in a BEMIS message file:

1 The length of a record can vary.
2 The message record must consist of all fields, even if not every field contains a value.
3 The fields in the file are to be seperated by a ; .
4 The text values of the fields have to be put into "".
5 The numerical values must not be put into "".
6 Every message record starts with "SAx".
7 Every message record ends with "SAx_END".

In the following sections you will find the format descriptions for the individual record types of the BEMIS in-house format file. The tables contain the following data:

SHIPMENT NOTIFICATION INHOUSE FORMAT				
Pos	FIELD DESCRIPTION	Key	ST	FM

The first block of the table describes the format of a record type:

Pos.	Position of the field in the record
Field name	Description of the field
Key	Key field outgoing (O) / incoming (I)
ST	Field status mandatory (M) / conditional (C)
FM	Field format
	an..14 alphanumerical field with a maximum of 14 characters
	an14 alphanumerical field with exactly 14 characters
	n..10 numerical field with a maximum of 10 digits
	n1 numerical field with exactly 1 character

When BAAN generates outgoing messages, the numerical fields are written into the in-house format file without leading zeros. For example, for the year “0000“ a “0“ is written into the BEMIS message file.

Mapping from Application Table Fields (Outcoming)	
Table Field	Action

The second block of the table describes the corresponding table field for outgoing messages in BAAN IV as well as the possible special actions, which are taken during the processing of the messages.

Mapping to Application Table Fields (Incoming)	
Table Field	Action

The third block of the table describes the corresponding table field for incoming messages in BAAN IV as well as the possible special actions, which are taken during the processing of the messages.

In the past, there seemed to be some doubts about the way BAAN points out a position within the message file. Here are some additional explanations:

As defined in BEMIS a position within a message file is pointed out using two semikolons.

To draw an example: `”SAX”;...;Position;...;”SAX_END”`

If an position in a BEMIS Message File is not taken by a value (this means the position is empty), the position is pointed out as shown above. Moreover the BAAN EDI Module distinguishes between numerical and alphanumerical data format. If a position defined as numerical is empty the position is pointed out using semikolons. On the other hand emty alphanumerical positions are exported in two way. The first way is to point out a position using the semikolons. The second way BAAN exports empty alphanumerical positions is to write two inverted commans within the position. This depends whether the alphanumerical field existis in BAAN’s database or not. Finally we take a look at the following expample:

empty numerical Position:

```
”SAX”;...;;...;”SAX_END”
```

empty alphanumerical Position:

```
”SAX”;...;;...;”SAX_END”
```

or

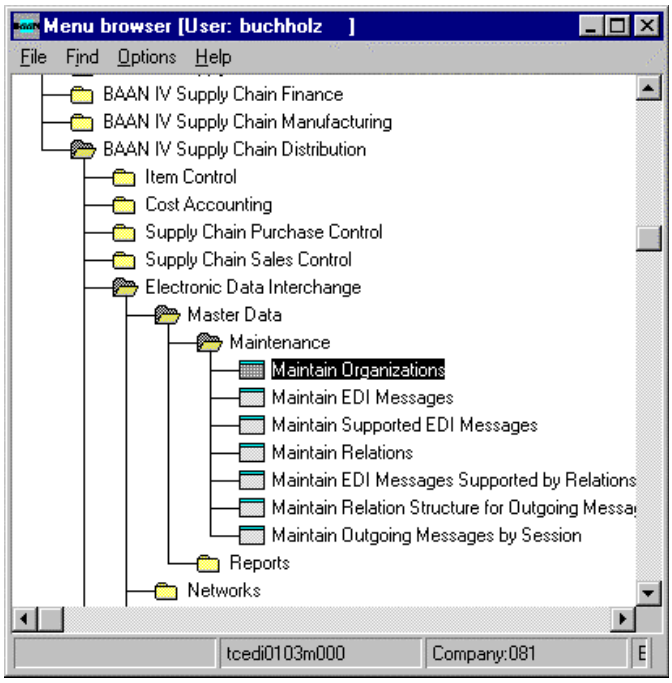
```
”SAX”;...;””;...;”SAX_END”
```

Changing the Date Format

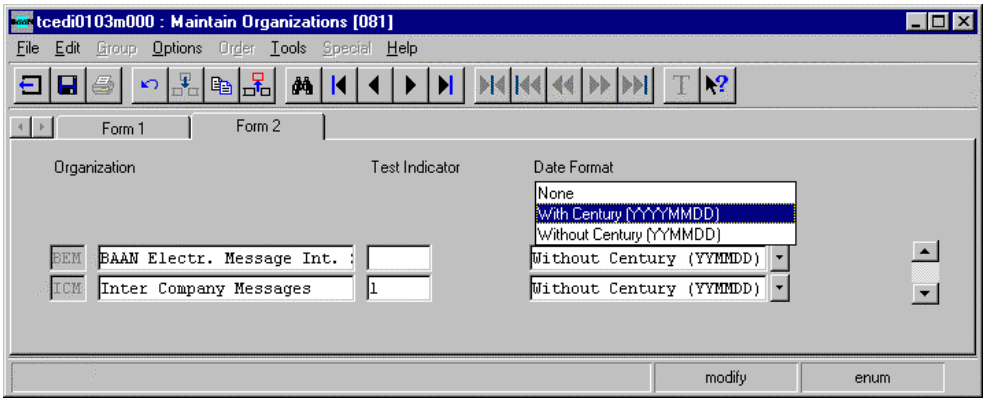
For the BAAN Versions b and c2/3 we have defined a date format using up to 6 numerical digits. Reading this definition, you will find out that the date format has been changed to 8 digits at maximum. With the BAAN Version BAAN IVC4 the delivered BEMIS default file the defaults.edi will be different in this point (in comparison to the versions delivered before). In BAAN EDI there is one global Parameter in order to send out date information including the two digits for the century.

The enclosed screen shots will show you where you will find the responsible parameter.

You have to choose the following menu option:



After you called the session tcedi0103m000 you will see that the entry for the dateformat on form two has been changed to “With Century (YYYYMMDD).



PLEASE NOTICE: If you use this option above the date format of every exported message will be changed to 8 digits! This means that the partner system (the translator software) has to able to translate each outgoing message comming with the changed date format!

Following the table overview, every BAAN field is described in a more detailed way, including information about the processing in the EDI subsystem and in BAAN IV.

Changes in Comparison to Version 1.1.a

The following changes has been made:

SA2:

SA3:

SA3.31 New Position: Specific additional Document Number e.g. for BMW's SPAB processing (Dummy Position)

SA3.32 New Position: Additional Plant Identification specially demanded by e.g. Ford

SA3.33 New Position Delivery Address Code Qualifier as a constant “DP”

SA3.34 The End of record sign has been moved from position 31 to position 34.

SA4:

SA4.26 New Position: Cumulative Delivered Quantity

SA4.27 The End of record sign has been moved from position 26 to position 27.

SA5:

PLEASE NOTICE: Using BAAN IVC3scc1 the application is able to import packaging information per EDI.

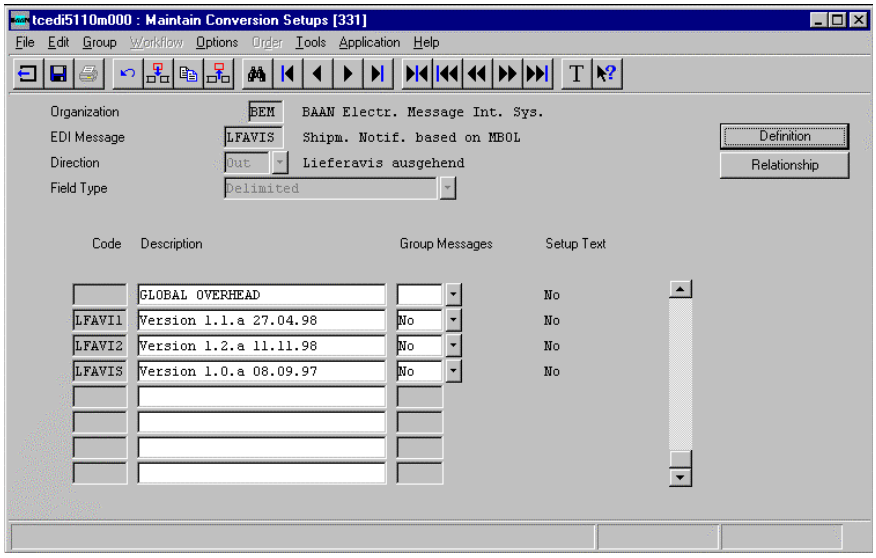
Additional Information in refer to the BEMIS Position SA3.32

Defining a new BEMIS Message version our aim is to add new information to the standard. In some cases these additional information are very specific. For example Fords demands an additional information in refer to the normally transmitted plant code. Therfore we decided to put this as a new position to our BEMIS standard message. But in this cases a lttle problem occured. The additional plant information which is mapped to position SA3.32 is derived from the BAAN table field tdssc017.cdel using a the Code and Conversion table TBtcedi448 (Maintain Conv. of Delivery Address Codes by Customer (out)).

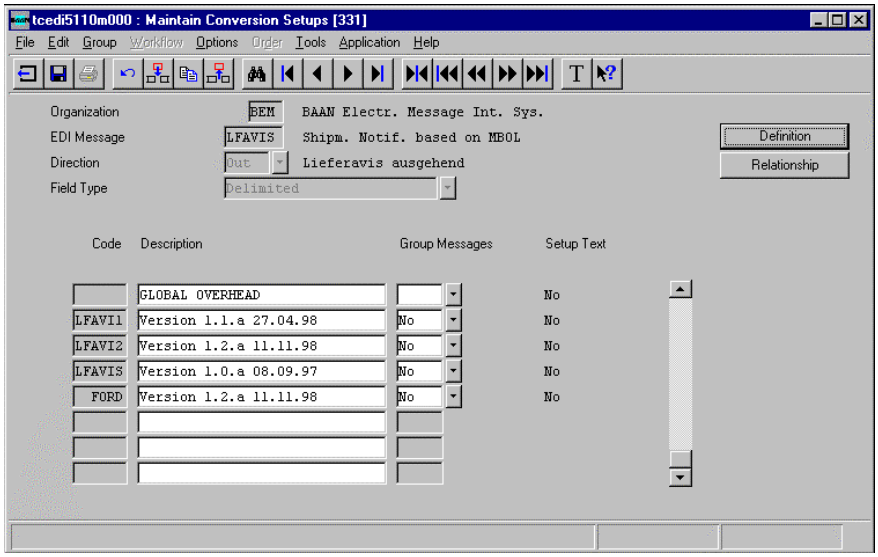
If an EDI Partner does not demand this information in an outgoing Shipment Notification you have to maintain a Code and Conversion table which is not needed.

Thus the following workflow should serve as a proposal to solve this problem:

If we look at the following Conversion Setup:



1 Copy the Conversion Setup LFAVIS2 (Version 1.2.a 11.11.98) using an other name, e.g.:



2 Change the Conversion Setup Up Definition in the following position:

Status before the change in the Conversion Setup Definition “LFAVIS2 (Version 1.2.a 11.11.98)”:

```
Organization      :   BEM  BAAN Electr. Message Int. Sys.    Direction        : Out
EDI Message       : LFAVIS  Shipm. Notif. based on MBOL     Field Type       : Delimited
Destination       :                                         Conversion Setup : LFAVI2  Version 1.2.a 11.11.98

Field          Seq Seq. Level Start Index Length Next Sequence Write Mult. Conversion   Action when  Evaluation
               No.          Pos.            Rec.  Iter  Key Record Fact Table        not found    Expression

tdssc017.pugt    0 187    3    29    0      0      0    0          1
tdssc017.wght    0 189    3    30    0      0      0    0          1
""               0 190    3    31    0      0      0    0          1
tdssc017.cdel    0 194    3    32    0      0      0    0          1 Delivery Addr Original Valu
```

Status after the change in Conversion Setup Definition “FORD (Version 1.2.a 11.11.98)”:

Organization	: BEH BAAN Electr. Message Int. Sys.	Direction	: Out
EDI Message	: LFAVIS Shipm. Notif. based on HBOL	Field Type	: Delimited
Destination	: Line	Conversion Setup	: FORD Version 1.2.a 11.11.98

Field	Seq No.	Seq.	Level	Start Pos.	Index	Length	Next Rec.	Sequence Iter	Sequence Key	Write Record	Mult. Fact	Conversion Table	Action when not found	Evaluation Expression
tdssc017.puqt	0	187	3	29	0	0	0	0		1				
tdssc017.wght	0	189	3	30	0	0	0	0		1				
""	0	190	3	31	0	0	0	0		1				
tdssc017.cdel	0	194	3	32	0	0	0	0		1	Delivery Addr	Discard Messa		

3 In the last step you have to link the new created and modified Conversion Setup Entry “FORD (Version 1.2.a 11.11.98)” to your Business Partner using the BAAN session tcedi0111m000 Maintain EDI Messages Supported by Relations.

2 Shipment Notification – Record description

This chapter describes the record types which are used in the BAAN standard in-house message format for shipment notifications according to VDA 4913 or ODETTE AVIEXP.

SA1 Message Overhead

Status:	Mandatory
Frequency:	Once by message
Description:	This record supports the clear identification of the whole message.

SHIPMENT NOTIFICATIONS INHOUSE FORMAT					**Mapping from Application Table Fields (out)**		**Mapping to Application Fields (in)**	
Pos	**FIELD DESCRIPTION**	**Key**	**ST**	**FM**	**Table Field**	**Action**	**Table Field**	**Action**
1	Record type	O/I	M	an3	SA1		SA1	
2	Message reference	O/I	M	an..14	tcedi701.bano	Generation (see below)	tcedi702.bano	Generation by EDI subsystem
3	Network address customer / supplier	O/I	M	an..17	tcedi028.neta	Conversion (see below)	tcedi702.reno	Conversion (see below)
4	Our Identification in the network		M	an..17	tcedi020.neta	Conversion (see below)	empty	
5	Message		M	an..6	tcedi001.code	Conversion (see below)	tcedi702.mess	Conversion (see below)
6	Organization		M	an..6	tcedi003.code	Conversion (see below)	tcedi702.orga	Conversion (see below)
7	Order type		M	an..35	tcedi011.koor	Conversion (see below)	tcedi702.koor	Conversion (see below)
8	Order reference		M	an..35	empty	not filled at the moment (...;"";...)	tcedi702.msno	Conversion (see below)
9	Shipping date		M	n..8	current date		tcedi702.send	
10	Shipping time		M	n..4	current time		tcedi702.sent	
11	Transfer code old		M	an..14	empty	not filled at the moment (..;"";..)	tcedi702.prno	
12	End of record sign		M	an7	SA1_END		SA1_END	

Detailed description of Shipment Notification, record type SA1 Overhead

Position	**1**	Field format	**an3**	Field status	**M**
Field name		**Record type**		(key field out/in)	

Description: This field identifies the record type in the message block. It contains the fixed value ‘SA1’.

Processing outgoing

EDI subsystem:

BAAN: This field is filled with the fixed value ‘SA1’.

Processing incoming

EDI subsystem: This field is filled with the fixed value ‘SA1’.

BAAN: None

Position	**2**	Field format	**an..14**	Field status	**M**
Field name		**Message reference**		(key field out/in)	

Description: This field identifies all connected records of one shipment notification. The message reference has to be clear by shipment notification. The numbering helps to control the chronological order of the shipment notifications and the complete transfer. The field consists of a fix part with four characters, the current date in the format YYMMDD and a serial number with four characters.

The special format is defined in the network parameters in the BAAN table tcedi020. When generating the message reference with the EDI subsystem, the created message reference needs to be specific, that means unique. While storing the message reference BAAN controls whether it is specific.

Processing outgoing

EDI subsystem:

BAAN: BAAN generates this number to identify a shipment notification, stores it in the BAAN table field tcedi701.bano and writes it into all records of a shipment notification.

Processing incoming

EDI subsystem: The EDI subsystem generates this number to identify a shipment notification and writes it into all records of a shipment notification.

BAAN: Mapping of the BAAN field TFtcedi702.bano to BAAN.

Position	**3**	Field format	**an..17**	Field status	**M**
Field name	**Network address customer / supplier**			(key field out/in)	

Description: This field contains on the outgoing side the network address of the supplier and on the incoming side the network address of the customer.

Processing outgoing

EDI subsystem:

BAAN: The network address is stored in the BAAN table tcedi028 ‘Relations by network’ under the corresponding business partner (supplier) and the corresponding network in the BAAN field TFtcedi028.neta. The contents of this field is mapped to the position of the transfer file.

Processing incoming

EDI subsystem:

BAAN: The network address determines the corresponding business partner (customer) and the network in the BAAN table tcedi028 ‘Relations by network’. This identification is mapped to the BAAN field TFtcedi702.reno.

Position	**4**	Field format	**an..17**	Field status	**M**
Field name	**Our identification in the network**				

Description: This field contains on the outgoing side our identification (customer) in the network.

Processing outgoing

EDI subsystem:

BAAN: The identification of the customer in the used network is entered in the BAAN table tcedi020 ‘Networks’. The BAAN field TFtcedi028.neta is mapped to this position.

Processing incoming

EDI subsystem: Transfer of the value from the message file.

BAAN: On the incoming side this field is ignored.

Position	**5**	Field format	**an..6**	Field status	**M**
Field name		**Message**			

Description: This field contains the code for the identification of the concerned message. The code of the message type shipment notification is ‘LFAVIS‘.

Processing outgoing

EDI subsystem:

BAAN: The internal message code tcedi001.code ‘LFAVIS’ of the BAAN table tcedi001 ‘Supported EDI Messages’ is mapped to this position.

Processing incoming

EDI subsystem: This field is filled with the fixed value ‘LFAVIS’.

BAAN: The message code in the BAAN table tcedi001 ‘Supported EDI Messages’ determines, which internal message is connected to this BEMIS shipment notification. In the BAAN table tcedi005 ‘EDI Messages’ is determined for every message, which session (Dll) is used in BAAN to process the BEMIS shipment notification. The message code is mapped to the BAAN field TFtcedi702.mess.

Position	**6**	Field format	**an..6**	Field status	**M**
Field name		**Organization**			

Description: This field contains the organization (Standard/Norm), which is used for the EDI communication.

Processing outgoing

EDI subsystem:

BAAN: The internal organisation code tcedi003.code ‘BEMIS’ from the BAAN table tcedi003 ‘Organizations’ is mapped to this position.

Processing incoming

EDI subsystem: This field is filled with the fixed value ‘BEMIS’.

BAAN: Mapping to BAAN field TFtcedi702.orga.

The corresponding organization must have been entered into the BAAN table tcedi003.

Position	**7**	Field format	**an..35**	Field status	**M**
Field name		**Order type**			

Description: This field contains a code for the concerned order type.

Processing outgoing

EDI subsystem:

BAAN: In BAAN table tcedi011 there must be an entry for this order type in connection with the appropriate message and organization. The BAAN field TFtcedi011.koor is mapped to this position. It contains the code 4913 (...;“4913“;...).

Processing incoming

EDI subsystem: The value 4913 is entered in this field (...;“4913“;...).

BAAN: Mapping to BAAN field TFtcedi702.koor.

In BAAN table tcedi200 there must be an entry for this order type in connection with the appropriate message and organization.

Position	**8**	Field format	**an..35**	Field status	**M**
Field name		**Order reference**			

Description: This field contains a code for the order reference.

Processing outgoing

EDI subsystem:

BAAN: The position will not be filled; here (...;““;...).

Processing incoming

EDI subsystem: Transfer of the value from the transfer file.

BAAN: Mapping to BAAN field TFtcedi702.msno

Position	**9**	Field format	n..8	Field status	**M**
Field name		**Shipping date**			

Description: This field contains on the outgoing side the current date, on which the message was created. On the incoming side, this field contains the arrival date of the message at the EDI subsystem. The date is displayed in the following format: YYMMDD.

Processing outgoing

EDI subsystem:

BAAN: Mapping of the current date to the position.

Processing incoming

EDI subsystem: Entry of the arrival date of the message at the EDI subsystem.

BAAN: Mapping to BAAN field TFtcedi702.send.

Position	**10**	Field format	**n..4**	Field status	**M**
Field name		**Shipping time**			

Description: This field contains on the outgoing side the time, when the message was created. On the incoming side, the field contains the arrival time of the message at the EDI subsystem. The time is displayed in the following format: HHMM.

Processing outgoing

EDI subsystem:

BAAN: Mapping of the current time to the position.

Processing incoming

EDI subsystem: Entry of the arrival time of the message at the EDI subsystem.

BAAN: Mapping to BAAN field TFtcedi702.send

Position	**11**	Field format	**an..14**	Field status	**M**
Field name		**Transfer code old**			

Description: This field contains the reference number of the previous transfer.

Processing outgoing

EDI subsystem:

BAAN: The position will not be filled; here (..;"";..).

Processing incoming

EDI subsystem: Transfer of the value from the transfer file.

BAAN: Mapping to BAAN field TFtcedi702.prno

Position	**12**	Field format	**an7**	Field status	**M**
Field name		**End of record sign**			

Description: This field indicates the end of the record. It contains the fixed value 'SA1_END'.

Processing outgoing

EDI subsystem:

BAAN: The field is filled with the fixed value 'SA1_END'.

Processing incoming

EDI subsystem: The field is filled with the fixed value 'SA1_END'.

BAAN: None

SA2 Loading header

Status: Mandatory

Frequency: Once by message

Description: This record type is used to transfer data concerning transportation. It contains information about the shipment identification as well as information about the transport. For a shipment notification this record type is available only once. All the records, which follow up to the next record of the type SA2, refer to the same shipment notification.

SHIPMENT NOTIFICATION INHOUSE FORMAT					**Mapping from Application Table Fields (out)**		**Mapping to Application Fields (in)**	
Pos	**FIELD DESCRIPTION**	**Key**	**ST**	**FM**	**Table Field**	**Action**	**Table Field**	**Action**
1	Record type	O/I	M	an3	SA2		SA2	
2	Message reference	O/I	M	an..14	tcedi701.bano	Generation (see below)	tcedi702.bano	Generation by EDI subsystem
3	Network address customer / supplier	O/I	M	an..17	tcedi028.neta	Conversion (see below)	tcedi702.reno	Conversion (see below)
4	MBOL-Number Number, which the consigner assigns to the shipment/load.	O/I	M	n..9 an..30	tdssc045.mbol		tdpsc040.load	
5	Freight forwarder Name or number of the business partner, who carries out the transport.		M	an..14	tdssc045.cfrw	Conversion (see below)	tdpsc040.pron	
6	Freight forwarder – transfer date Date of shipment transfer to freight forwarder.		M	n..8	tdssc045.cdat		tdpsc040.idat	
7	Freight forwarder – transfer time		M	n..4	tdssc045.ctim		tdpsc040.itim	
8	Gross shipment weight		M	n..15	tdssc045.wght		tdpsc040.txta	
9	Net shipment weight Fixed value		C	n..15	tdssc045.nwt	Format: NNNNNNNNNNN.NNN	tdpsc040.txta	
10	Postage code		C	an2	tdssc045.term		tdpsc040.txta	

SHIPMENT NOTIFICATION INHOUSE FORMAT					**Mapping from Application Table Fields (out)**		**Mapping to Application Fields (in)**	
Pos	**FIELD DESCRIPTION**	**Key**	**ST**	**FM**	**Table Field**	**Action**	**Table Field**	**Action**
11	Number of packages Total of all packages of one shipment.		C	n..4	tdssc045.puqt	Format: NNNN 1 load unit equals 1 package	tdpsc040.iedi(1)	
12	Transport unit code		M	an2	tdssc045.ecod		tdpsc040.iedi(2)	
13	Transport unit number Enter pol. identification if transport unit code = 1		M	an..10	tdssc045.vhid		tdpsc040.vhid	
14.	EDI-Code (supplier/ELP) Fixed value		C	an..1		not filed at the moment (..;"";..)		
15.	Shipment identification Fixed value		C	an..1		not filled at the moment (..;"";..)		
16.	Supplier's Plant Code		C	an..17		not filled at the moment (..;"";..)		
17.	Load volume		C	n..15	tdssc045.volu	Format: NNNNNNNNNNN.NNN		
18.	Unit Load Volume		C	an..3		not filled at the moment (..;"";..)		
19.	Number of the Transport Partner		C	an..17	tdssc045.tpno			
20.	End of record sign		M	an7	SA2_END		SA2_END	

Detailed description of Shipment Notification, record type SA2 Loading header

Position	**1**	Field format	**an3**	Field status	**M**
Field name		**Record type**		(key field out/in)	

Description: The field identifies the record type in the message block.

It contains the fixed value ‘SA2’.

Processing outgoing

EDI subsystem: None

BAAN: The position is filled with the fixed value ‘SA2’.

Processing incoming

EDI subsystem: The position is filled with the fixed value ‘SA2’.

BAAN: None

Position	**2**	Field format	**an..14**	Field status	**M**
Field name		**Message reference**		(key field out/in)	

Description: This field identifies all connected records of one shipment notification. The message reference has to be clear by shipment notification. The numbering helps to control the chronological order of the shipment notifications and the complete transfer. The field consists of a fix part with four characters, the current date in the format YYMMDD and a serial number with four characters.

The special format is defined in the network parameters in BAAN table tcedi020. When generating the message reference with the EDI subsystem, the created message reference needs to be specific, that means unique. While storing the message reference BAAN controls whether it is specific.

Processing outgoing

EDI subsystem:

BAAN: The BAAN system generates this number to identify a shipment notification, stores it in the BAAN table field tcedi701.bano and writes it into all records of a shipment notification.

Processing incoming

EDI subsystem: The EDI subsystem generates this number to identify a shipment notification and writes it into all records of a shipment notification.

BAAN: Mapping to BAAN field TFtcedi702.bano.

Position	**3**	Field format	**an..17**	Field status	**M**
Field name	**Network adress customer / supplier**			(key field out/in)	

Description: This field contains on the outgoing side the network address of the supplier and on the incoming side the network address of the customer.

Processing outgoing

EDI subsystem:

BAAN: The network address is stored in the BAAN table tcedi028 ‘Relations by network’ under the corresponding business partner (supplier) and the corresponding network in the BAAN field TFtcedi028.neta. The contents of this field is mapped to the position of the transfer file.

Processing incoming

EDI subsystem:

BAAN: The network address determines the corresponding business partner (customer) and the network in the BAAN table tcedi028 ‘Relations by network’. This identification is mapped in the BAAN field TFtcedi702.reno.

Position	**4**	Field format	**n..9**	Field status	**M**
Field name		**MBOL-Number**			

Description: The Master Bill of Lading-Number (*Sendungs-Ladungs-Bezugs-Nummer*) is the number which the consigner assigns to the shipment/load.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc045.mbol to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc040.load

Position	**5**	Field format	**an..14**	Field status	**M**
Field name		**Freight forwarder**			

Description: Name or number of the business partner who carries out the transportation.

The field contains an alphanumerical code with a maximum of 14 characters.

Processing outgoing

EDI-subsystem: None

BAAN: Mapping of BAAN field TFtdssc045.cfrw to position. Used code and conversion table: TBtcedi456 (Conversion of Forwarding Agents)

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc040.pron

Position	**6**	Field format	n..8	Field status	**M**
Field name		**Freight forwarder – Transfer date**			

Description: Date of shipment transfer to freight forwarder.

This field contains a numerical date with a maximum of 6 digits. The date is displayed in the following format: *YYMMDD*.

Processing outgoing

EDI-subsystem: None

BAAN: Mapping of BAAN field TFtdssc045.cdat to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value in BAAN field TFtdpsc040.idat

Position	**7**	Field format	**n..4**	Field status	**M**
Field name		**Freight forwarder – Transfer time**			

Description: Time of shipment transfer to freight forwarder.

This field contains a numerical time with a maximum of 4 digits. The time is displayed in the following form: *HHMM*.

Processing outgoing

EDI-subsystem: None

BAAN: Mapping of BAAN field TFtdssc045.ctim to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc040.itim

Position	**8**	Field format	**n..15**	Field status	**M**
Field name		**Gross shipment weight**			

Description: Describes the gross weight of the shipment.

The field contains numerical code for the gross weight. The code is displayed in the following format: *NNNNNNNNNNN.NNN*.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc045.wght to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc040.txta

Position	**9**	Field format	**n..15**	Field status	**C**
Field name		**Net shipment weight**			

Description: Describes the net weight of the shipment.

This field contains numerical code for the net weight.

Field Format: NNNNNNNNNNN.NNN

Processing outgoing

EDI-subsystem: None

BAAN: Mapping of BAAN field TFtdssc045.ntwt to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc040.txta

Position	**10**	Field format	**an2**	Field status	**C**
Field name		**Postage code**			

Description: This field indicates how to frank the shipment (unfranked,...)

It contains a unique alphanumerical identification.
01 = unfranked (unfrei)
02 = free destination (frei Bestimmungsort)
03 = free to the door (frei Haus)
04 = free German border (frei deutsche Grenze)
05 = free receiving carrier (frei Empfängsspediteur)
99 = special postage (Sonderfrankatur)

These codes have to be entered into the SCH basis tables in menu tdssc0189m000.

Processing outgoing

EDI-subsystem: None

BAAN: Mapping of BAAN field TFtdssc045.term to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc040.txta

Position	**11**	Field format	**n..4**	Field status	**C**
Field name		**Number of packages**			

Description: This field contains the number of packages of one load. One load unit equals one package.

Field Format: NNNN

Processing outgoing

EDI-subsystem: None

BAAN: Mapping of BAAN field TFtdssc045.puqt to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping field value to TFtdpsc040.iedi (1).

Position	**12**	Field format	**an2**	Field status	**M**
Field name		**Transportation unit code**			

Description: This field contains the identification code of the used vehicle.

The code consists of 2 alphanumerical characters.
01 = vehicle identification (KFZ-Kennzeichen)
02 = Bordero number (Bordero-Nummer)
06 = mixed cargo number (Stückgut-Nummer)
07 = fast freight number (Expressgut-Nummer)
08 = waggon number (Waggon-Nummer)
09 = package number (Postpaket-Nummer)
10 = flight number and/or airbill number (Flug-Nr. und/oder Luftfrachtbrief-Nr.)
11 = ship name (Schiffsname)

These codes have to be entered into the SCH basis tables in menus tdssc0142m000 and tdssc0143m000.

Processing outgoing

EDI-subsystem: None

BAAN: Mapping of BAAN field TFtdssc045.ecod to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdssc040.iedi(2).

Position	**13**	Field format	**an..10**	Field status	**M**
Field name		**Transportation unit number**			

Description: This field contains the number of a used vehicle. For example for the code ´1´ (vehicle) the registration number.

It consists of an alphanumerical code.

Processing outgoing

EDI-subsystem: None

BAAN: Mapping of BAAN field TFtdssc045.vhid to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc040.vhid.

Position	**14**	Field format	**an..1**	Field status	**C**
Field name		**EDI-Code (supplier/ELP)**			

Description: This field contains the identification of the supplier (ELP) / storekeeper.

It contains the following values:
Blank EDI by supplier
EDI by ELP
EDI by freight forwarder

Processing outgoing

EDI subsystem:

BAAN: This position will not be filled, here: (..;"";..).

Processing incoming

EDI subsystem: None

BAAN: None

Position	**15**	Field format	**an..1**	Field status	**C**
Field name		**Delivery code**			

Description: This field identifies a certain delivery type.

It contains the following values:

Blank	default delivery (*Standardlieferung*)
J	Just-in-time-delivery (*JIT-Lieferung*)
E	express delifery (*Expreßlieferung*)

Processing outgoing

EDI subsystem:

BAAN: The position will not be filled; here (..;"";..).

Processing incoming

EDI subsystem: None

BAAN: None

BAAN: None

Position	**16**	Field format	**an..17**	Field status	**C**
Field name		**Supplier's Plant Code**			

Description: The Plant of the Supplier coded.

Processing outgoing

EDI subsystem: None.

BAAN: None.

Processing incoming

EDI subsystem: None

BAAN: None

Position	**17**	Field format	**n..15**	Field status	**C**
Field name		**Load Volume**			

Description: Volume of the Load.

Field Format: NNNNNNNNNN.NNN

Processing outgoing

EDI subsystem: None.

BAAN: Mapping of BAAN field TFtdssc045.volu to position.

Processing incoming

EDI subsystem: None

BAAN: None

Position	**18**	Field format	**an..3**	Field status	**C**
Field name		**Unit Load Volume**			

Description: This field contains the encoded measure of the shipped volume. The coding was carried out on the basis of ODETTE-Standard ODDC 25:
Cubic millimeter MMQ
Cubic centimeter CMQ
Cubic meter MTQ
Liter DMQ

Processing outgoing

EDI subsystem: None

BAAN: This position will not be filled, here: (..;"";..).

Processing incoming

EDI subsystem: None

BAAN: None

Position	**19**	Field format	**an..17**	Field status	**C**
Field name		**Number of the Transport Partner**			

Description: The ident number of the party which is responsible for the transport of the goods. The number is defined by the customer.

Processing outgoing

EDI subsystem: None.

BAAN: Mapping of BAAN field TFtdssc045.tpno to position.

Processing incoming

EDI subsystem: None

BAAN: None

Position	**20**	Field format	**an7**	Field status	**M**
Field name		**End of record sign**			

Description: This field identifies the end of the record.

'SA2_END'

Processing outgoing

EDI subsystem: None

BAAN: Mapping of value 'SA2_END' to position.

Processing incoming

EDI subsystem: Mapping of value 'SA2_END' to position.

BAAN: None

SA3 Shipping Note Header

Status: Mandatory

Frequency: Repeatable by shipment

Description: This record type supports the transfer of shipping note data to a shipment. This record type is applied several times to one shipment.

SHIPMENT NOTIFICATION INHOUSE FORMAT					**Mapping from Application Table Fields (out)**		**Mapping to Application Fields (in)**	
Pos	**FIELD DESCRIPTION**	**Key**	**ST**	**FM**	**Table Field**	**Action**	**Table Field**	**Action**
1	Record type	O/I	M	an3	SA3		SA3	
2	Message reference	O/I	M	an..14	tcedi701.bano	Generation (see below)	tcedi702.bano	Generation by EDI subsystem
3	Network address customer / supplier		M	an..17	tcedi028.neta	Conversion (see below)	tcedi702.reno	Conversion (see below)
4	MBOL-Number Number, which the consigner assigns to the shipment/load.	O/I	M	n..9 an..30	tdssc045.mbol		tdpsc040.load	
5	Shipping note number	O/I	M	n..9 an..30	tdssc017.ides		tdpsc040.sdoc	
6	Supplier code		C	an..15	tccom010.osno		tdpsc040.suno	
7	Arrival date planned Defined by the customer		C	n..8	tdssc046.idat		tdpsc040.aadt	
8	Arrival time planned		C	n..4	tdssc046.itim		tdpsc040.aatm	
9	Due date		C	n..8	tdssc046.exdt		tdpsc040.exdt	
10	Due time		C	n..4	tdssc046.exti		tdpsc040.exti	
11	Planned delivery date		C	n..8	tdssc046.ddat		tdpsc040.ddat	
12	Planned delivery time		C	n..6	tdssc046.dtim		tdpsc040.dtim	
13	Shipping date		M	n..8	tdssc017.ddat		tdpsc040.cdat	
14	Delivery point		M	an..32	tdssc002.delp		tdpsc040.dock	
15	Shipping type		M	an..2	tdssc017.trmd			
16	Transaction code Fixed value		C	an..1		not filled at the moment (...,"";....)		
17	Site customer		M	an..35	tdssc002.plnt		tdpsc040.tprf	
18	Consignee code Fixed value		C	an..1		not filled at the moment (...;""; ..)		
19	Storage location customer		C	an..3	tdssc017.dock		tdpsc040.iedi(3)	

SHIPMENT NOTIFICATION INHOUSE FORMAT					**Mapping from Application Table Fields (out)**		**Mapping to Application Fields (in)**	
Pos	**FIELD DESCRIPTION**	**Key**	**ST**	**FM**	**Table Field**	**Action**	**Table Field**	**Action**
20	Line feed location Fixed value		C	an..14		not filled at the moment (...;““; ..)		
21	Processing identification Fixed value “1”		M	an..1		not filled at the moment (...;“1“;...)	tdpsc040.proc	
22	Shipping time		C	n..4	tdssc017.dtim		tdpsc040.ctim	
23	Invoice Number		C	an...20	tccom000.namf	consists of tdsls480.ttyp + tdsls480.invn	tdpsc040.invn	
24	Invoice Date		C	n..8	tdsls480.date		tdpsc040.invd	
25	Invoice Currency		C	an..3	tdsls480.curr	Code and Conversion		
26	Invoice Amount (total)		C	n...13	tdsls480.invo			
27.	Net Weight		C	n..15	tdssc017.ntwt	Format: NNNNNNN NNNN.NNN		
28.	Volume		C	n..15	tdssc017.volu	Format: NNNNNNN NNNN.NNN		
29.	Number of Packages		C	n..4	tdssc017.puqt	Format: NNNN		
30.	Gross shipment note weight		C	n..15	tdssc017.wght	Format: NNNNNNN NNNN.NNN		
31.	Specific additional Document Number		C	an..17	not used at the moment		not used at the moment	
32.	Additional Plant Identification		C	an..17	tdssc017.cdel	Code and Conversion		
33.	Qualifier address code		M	an2	DP		DP	
34.	End of record sign Fixed value “SA3_END”		M	an7				

Detailed description of Shipment notification, record type SA3 Shipping note header

Position	**1**	Field format	**an3**	Field status	**M**
Field name		**Record type**		(key field out/in)	

Description: This field identifies the record type in the message block.

It contains the fixed value ‘SA3’.

Processing outgoing

EDI subsystem: None

BAAN: The position is filled with the fixed value ‘SA3’.

Processing incoming

EDI subsystem: The position is filled with the fixed value ‘SA3’.

BAAN: None

Position	**2**	Field format	**an..14**	Field status	**M**
Field name		**Message reference**		(key field out/in)	

Description: This field identifies all connected records of one shipment notification. The message reference has to be clear by shipment notification. The numbering helps to control the chronological order of the shipment notifications and the complete transfer. The field consists of a fix part with four characters, the current date in the format YYMMDD and a serial number with four characters.

The special format is defined in the network parameters in BAAN table tcedi020. When generating the message reference with the EDI subsystem, the created message reference needs to be specific, that means unique. While storing the message reference BAAN controls whether it is specific.

Processing outgoing

EDI subsystem:

BAAN: BAAN generates this number to identify a shipment notification, stores it in the BAAN table field tcedi701.bano and writes it into all records of a shipment notification.

Processing incoming

EDI subsystem: The EDI subsystem generates this number to identify a shipment notification and writes it into all records of a shipment notification.

BAAN: Mapping to BAAN field TFtcedi702.bano.

Position	**3**	Field format	**an..17**	Field status	**M**
Field name	**Network address customer / supplier**			(key field out/in)	

Description: This field contains on the outgoing side the network address of the supplier and on the incoming side the network address of the customer.

Processing outgoing

EDI subsystem:

BAAN: The network address is stored in the BAAN table tcedi028 ‘Relations by network’ under the corresponding business partner (supplier) and the corresponding network in the BAAN field TFtcedi028.neta. The contents of this field is mapped to the position of the transfer file.

Processing incoming

EDI subsystem:

BAAN: The network address determines the corresponding business partner (customer) and the network in the BAAN table tcedi028 ‘Relations by network’. This identification is mapped to the BAAN field TFtcedi702.reno.

Position **4**	Field format	**out: n..9 / in: an..30**	Field status	**M**
Field name	**MBOL-Number**			

Description: The Master Bill of Lading-Number (*Sendungs-Ladungs-Bezugs-Nummer*) is the number which the consigner assigns to the shipment/load.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc045.mbol to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc040.load.

Position **5**	Field format	**out: n..9 / in: an..30**	Field status	**M**
Field name	**Shipping Note Number**			

Description: Describes the clear identification of the shipping note.

This field contains a clear shipping note number with a maximum of 9 digits.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc017.ides to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc040.sdoc.

Position	**6**	Field format	**an..15**	Field status	**C**
Field name		**Supplier code**		(key field out/in)	

Description: This field contains the identification which a customer applies to the supplier.

This is the identification code of the supplier.

Processing outgoing

EDI-subsystem: None

BAAN: Mapping of BAAN field TFtccom010.osno to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc040.suno.

Position	**7**	Field format	n..8	Field status	**C**
Field name		**Arrival date planned**			

Description: Defines the date at which the shipment arrives.

This field contains a numerical date with a maximum of 6 digits. The date is displayed in the following format: *YYMMDD*.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc046.idat to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc040.aadt.

Position	**8**	Field format	**n..4**	Field status	**C**
Field name		**Arrival time planned**			

Description: Defines the time at which the shipment arrives. It is defined by the customer.

This field contains a numerical time with a maximum of 4 digits. The time is displayed in the following format: '*HHMM*'.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdpsc046.itim to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc040.aatm.

Position	**9**	Field format	n..8	Field status	**C**
Field name		**Due Date**			

Description: Defines the date at which the shipment is required.

This field contains a numerical date with a maximum of 6 digits. The date is displayed in the following format: YYMMDD.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc046.exdt to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc040.exdt

Position	**10**	Field format	**n..4**	Field status	**C**
Field name		**Due time**			

Description: Defines the time at which the shipment is required.

This field contains a numerical time with a maximum of 4 digits. The time is displayed in the following format: '*HHMM*'.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdpsc046.exti to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc040.exti.

Position	**11**	Field format	n..8	Field status	**C**
Field name		**Planned delivery date**			

Description: Defines the date at which the shipment was/is planned.

This field contains a numerical date with a maximum of 6 digits. The date is displayed in the following format: YYMMDD.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc046.ddat to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc040.ddat.

Position	**12**	Field format	**n..4**	Field status	**C**
Field name		**Planned delivery time**			

Description: Defines the time at which the shipment was/is planned.

This field contains a numerical time with a maximum of 4 digits. The time is displayed in the following format: *'HHMM'*.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdpsc046.dtim to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc040.dtim.

Position	**13**	Field format	n..8	Field status	**M**
Field name		**Shipping date**			

Description: Defines the date of the shipment.

This field contains a numerical date with a maximum of 6 digits. The date is displayed in the following format: 'JJMMTT'

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdpsc017.ddat to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc040.cdat.

Position	**14**	Field format	**an..32**	Field status	**M**
Field name		**Delivery point**			

Description: Describes the delivery point at the customer's site.

This field contains an alphanumerical code for the delivery point.

Processing outgoing

EDI-subsystem: None

BAAN: Splitting over reference in BAAN table tdssc018 (current purchase shipment notification). Mapping of BAAN field TFtdssc002.delp to position. Note: In case of a VDA-Message, this field is allowed to have a maximum length of an..5!

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc040.dock.

Position	**15**	Field format	**an..2**	Field status	**M**
Field name		**Shipping type**			

Description: Describes the key for the type of shipment.

This field contains an alphanumerical code which might be:
01 = truck subsupplier (LKW Unterlieferant)
02 = truck customer (LKW Kunde)
03 = truck carrier (LKW Spedition)
04 = truck rail (LKW Bahn)
05 = truck self (supplier) (LKW eigen (Lieferant))
06 = rail freight (Bahn Fracht)
07 = rail express (Bahn Expreß)
08 = rail waggon (Bahn Waggon)
09 = mail (Postsendung)
10 = air freight (Luftfracht)
11 = sea freight (Seefracht)
20 = private parcels service (Privater Paketdienst)

Processing outgoing

EDI-subsystem: None

BAAN: Mapping of BAAN field TFtdssc017.trmd to position.

Processing incoming

EDI subsystem: None

BAAN: None

Position	**16**	Field format	**an..1**	Field status	**C**
Field name		**Transaction code**			

Description: This field is reserved for later extensions.

It is not defined.

Processing outgoing

EDI-subsystem: None

BAAN: This position will not be filled, here (...;"";...).

Processing incoming

EDI subsystem: None

BAAN: None

Position	**17**	Field format	**an..35**	Field status	**M**
Field name		**Site customer**			

Description: Describes the site of the customer.

This field contains the alphanumerical code for the site of the customer.

Processing outgoing

EDI-subsystem: None

BAAN: Splitting over reference in BAAN table tdssc018 (current purchase shipment notification). Mapping of BAAN field TFtdssc002.delp to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc040.tprf.

Position	**18**	Field format	**an..1**	Field status	**C**
Field name		**Warenempfänger Nr.**			

Description: This field is reserved for later extensions.

It is not defined.

Processing outgoing

EDI-subsystem: None

BAAN: This position will not be filled, here (...;"";...).

Processing incoming

EDI subsystem: None

BAAN: None

Position	**19**	Field format	**an..3**	Field status	**M**
Field name		**Storage location customer**			

Description: Describes the storage location of the customer, where the shipment is stored.

This field contains an alphanumerical code.

Processing outgoing

EDI-subsystem: None

BAAN: Mapping of BAAN field TFtdssc017.dock to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc040.iedi(3).

Position	**20**	Field format	**an..1**	Field status	**C**
Field name		**Line feed location**			

Description: This field is reserved for later extensions.

It is not defined.

Processing outgoing

EDI-subsystem: None

BAAN: This position will not be filled, here (...;“”;...).

Processing incoming

EDI subsystem: None

BAAN: None

Position	**21**	Field format	**an..1**	Field status	**M**
Field name		**Processing identification**			

Description: This field controls the correct processing of incoming messages in BAAN.

It is defined with the fixed value ´1´.

Processing outgoing

EDI-subsystem: None

BAAN: Mapping of fixed value ´1´ to position (...;“1“;...).

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdssc040.proc.

Position	**22**	Field format	**n..6**	Field status	**C**
Field name		**Shipping Time**			

Description: The time that the goods are planned to leave the premises.

Processing outgoing

EDI-subsystem: None

BAAN: Mapping of BAAN field TFtdssc017.dtim to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdssc040.ctim.

Position	**23**	Field format	**an..20**	Field status **C**
Field name		**Invoice number**		

Description: This field contains the identification number, which the supplier applied to a created invoice.

Processing outgoing

EDI-subsystem: None

BAAN: The outgoing invoice number consists of the fields TFtdsls480.ttyp and TFtdsls480.invn. Sending out a VDA conform message, the series in the BAAN module Finance has to be set in a way that the numerical part of the transaction type consists of not more than 5 digits /tfgld0111m000).

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc040.invn.

Position	**24**	Field format	n..8	Field status	**C**
Field name		**Invoice date**			

Description: This fields contains thedate of the current invoice. (format: *YYMMDD*)

Processing outgoing

EDI-subsystem: None

BAAN: Mapping of BAAN field TFtdsls480.date to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc040.invd.

Position	**25**	Field format	**an..3**	Field status	**C**
Field name		**Invoice Currency**			

Description: This field indicates the currency of the invoice. It contains the clear alphanumerical identification of the invoice. The currenxy code will be defined according to ISO 4217, e.g. ‘280’ for German mark (DM).

Processing outgoing

EDI-subsystem: None

BAAN: Used code and conversion table: ‘Maintain Conversion of Currency Codes (out)’ (tcedi4138m000). Mapping of BAAN field TFtdsls480.curr to position.

Processing incoming

EDI subsystem: None

BAAN: None

Position	**26**	Field format	**n..13**	Field status	**C**
Field name		**Invoice Amount (total)**			

Description: This field contains the total invoice amount. The field contains the numerical amount of the invoice (format: *NNNNNNNNNN.NN*).

Processing outgoing

EDI-subsystem: None

BAAN: Mapping of BAAN field TFtdsls480.invo to position.

Processing incoming

EDI subsystem: None

BAAN: None

Position	**27**	Field format	**n..15**	Field status	**C**
Field name		**Net weight**			

Description: This field contains the net weight of the shipment.

Field Format: *NNNNNNNNNN.NNN*

Processing outgoing

EDI-subsystem: None

BAAN: Mapping of BAAN field TFtdssc017.ntwt to position.

Processing incoming

EDI subsystem: None

BAAN: None

Position	**28**	Field format	**n..15**	Field status	**C**
Field name		**Volume**			

Description: This field contains the total volume of the shipment

Field Format: *NNNNNNNNNNN.NNN*

Processing outgoing

EDI-subsystem: None

BAAN: Mapping of BAAN field TFtdssc017.volu to position.

Processing incoming

EDI subsystem: None

BAAN: None

Position	**29**	Field format	**n..4**	Field status	**C**
Field name		**Number of Packages**			

Description: This field contains the tnumber of packages per shipment.
Field format: *NNNN*.

Processing outgoing

EDI-subsystem: None

BAAN: Mapping of BAAN field TFtdssc017.puqt to position.

Processing incoming

EDI subsystem: None

BAAN: None

Position	**30**	Field format	**n..15**	Field status	**M**
Field name		**Gross shipment note weight**			

Description: Describes the gross weight of the shipmen note.

The field contains numerical code for the gross weight. The code is displayed in the following format: *NNNNNNNNNNN.NNN*.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc017.wght to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc040.txta

Position	**31**	Field format	**an..17**	Field status	**M**
Field name		**Specific additional Document Number**			

Description: This position has been defined for later use. In special cases e.g. you have to transmit BMW's SPAB Number this postion should be used.

Processing outgoing

EDI subsystem: None.

BAAN: None.

Processing incoming

EDI subsystem: None.

BAAN: None.

Position	**32**	Field format	**an..17**	Field status	**M**
Field name		**Additional Plant Identification**			

Description: This position should contain the additional plant identification demanded by some assembler (e.g. Ford). Therefore it is nessary to convert the delivery address code to a code in the message using the qualifier "DP" in position 33. Please refer to the additional information which are given above.

Processing outgoing

EDI subsystem: Mapping of BAAN field TFtdssc017.cdel to position and conversion using the session tcedi4148m000.

BAAN: None.

Processing incoming

EDI subsystem: None.

BAAN: None.

Position	**33**	Field format	**an2**	Field status	**M**
Field name		**Qualifier address code**			

Description: This field contains the qualifier address code which is used to determine the delivery address from the value in position 32. This position must be filled with the fixed value ‘DP’.

Processing outgoing

EDI subsystem: This field is filled with the fixed value ‘DP’.

BAAN: None.

Processing incoming

EDI subsystem: This field is filled with the fixed value ‘DP’.

BAAN: None.

Position	**34**	Field format	**an7**	Field status	**M**
Field name		**End of record sign**			

Description: This field indicates the end of the record.

‘SA3_END’

Processing outgoing

EDI subsystem: None

BAAN: The field is filled with the fixed value ‘SA3_END’.

Processing incoming

EDI subsystem: The field is filled with the fixed value ‘SA3_END’.

BAAN: None

SA4 Shipping Note Position

Status:	Mandatory
Frequency:	Repeatable by shipping note header
Description:	This record type supports the transfer of position-specific shipping note data. It is directly connected to the previous record type SA3 and can occur several times, but will occur at least one time.

SHIPMENT NOTIFICATION INHOUSE FORMAT					**Mapping from Application Table Fields (out)**		**Mapping to Application Fields (in)**	
Pos	**FIELD DESCRIPTION**	**Key**	**ST**	**FM**	**Table Field**	**Action**	**Table Field**	**Action**
1	Record type	O/I	M	an3		Constant ‘SA4 ”	SA4	
2	Message reference	O/I	M	an..14	tcedi701.bano	Generation (see below)	tcedi702.bano	Generation by EDI subsystem
3	Network address supplier / customer		M	an..17	tcedi028.neta	Conversion (see below)	tcedi702.reno	Conversion (see below)
4	MBOL-Number Number, which the consigner assigns to the shipment/load.	O/I	M	n..9	tdssc045.mbol		tdpsc040.load	
5	Shipping note number	O/I	M	n..9	tdssc018.ides		tdpsc040.sdoc	
6	Position shipping note number	O/I	M	n..3	tdssc018.pono		tdpsc041.pono	
7	Customer article code		M	an..35	tdssc018.cpno		tdpsc041.item	
8	Supplier article code		M	an..35	tdssc018.item		tdpsc041.cpno	
9	Country of origin		M	an..3	tiitm001.ctyo	Conversion (see below)	tdpsc041.ccty	Conversion (see below)
10	Shipped quantity		M	n..15	tdssc018.cqty		tdpsc041.iqty	
11	Unit of shipped quantity		M	an..3	tdssc018.cuqs	Conversion (see below)	tdpsc041.cuqp	Conversion (see below)
12	Customer order number (1)		C	an..17 an..30	tdssc001.cono		tdpsc041.cono	
13	Gross weight shipment position		C	n..15	tdssc018.grwt		tdpsc041.grwt	
14	Shipment notification code Constant´		C	an..1		not filled at the moment (...;““;...)		
15	Lot number		C	an..16	tdssc018.clot		tdpsc041.clot	
16	Use code		M	an..1	tdssc018.appc		tdpsc041.appc	
17	Preference status Constant		M	an..1		Constant: (...;“G“;...)		

SHIPMENT NOTIFICATION INHOUSE FORMAT					**Mapping from Application Table Fields (out)**		**Mapping to Application Fields (in)**	
Pos	**FIELD DESCRIPTION**	**Key**	**ST**	**FM**	**Table Field**	**Action**	**Table Field**	**Action**
18	Dutiable goods Constant		M	an..1		filled with one blank as fixed value (...;“ “;...)		
19	Key for changed item Constant		M	an..2		filled with one blank as fixed value (...;“ “;...)		
20.	Customer Part Number Revision Level		C	an..17	tdssc018.crev			
21	Customer Part NumberRevision Level Description		C	an..30	tdssc605.desc			
22	Customer Part Number Revision Level Effective Date		C	n..8	tdssc605.refd			
23	Customer Part Number Expiry Date		C	n..6	tdssc605.rexd			
24	Customer Part Number specially for BMW		C	an..30	tdssc018.iedi(5)	consists of tdssc018.cpno + tdssc018.crev		
25	Customer order number taken from the delivered schedule		C	an..17	tdssc018.cono			
26	Cumulative Delivered Quantity		C	n..15	tdssc007.cqty	Field Format: NNNNNNNN.NNNN		
27	End of record sign Constant ‘SA4_END”		M	an7		Constant ‘SA4_END”		

Detailed description of Shipment Notification, record type SA4 Shipping Note Position

Position	**1**	Field format	**an3**	Field status	**M**
Field name		**Record type**		(key field out/in)	

Description: This field identifies the record type in the message block.

It contains the fixed value ‘SA4’.

Processing outgoing

EDI subsystem: None

BAAN: The position is filled with the fixed value ‘SA4’.

Processing incoming

EDI subsystem: The position is filled with the fixed value ‘SA4’.

BAAN None

Position	**2**	Field format	**an..14**	Field status	**M**
Field name		**Message reference**		(key field out/in)	

Description: This field identifies all connected records of one shipment notification. The message reference has to be clear by shipment notification. The numbering helps to control the chronological order of the shipment notifications and the complete transfer. The field consists of a fix part with four characters, the current date in the format YYMMDD and a serial number with four characters.

The special format is defined in the network parameters in BAAN table tcedi020. When generating the message reference with the EDI subsystem, the created message reference needs to be specific, that means unique. While storing the message reference BAAN controls whether it is specific.

Processing outgoing

EDI subsystem:

BAAN: BAAN generates this number to identify a shipment notification, stores it in the BAAN table field tcedi701.bano and writes it into all records of a shipment notification.

Processing incoming

EDI subsystem: The EDI subsystem generates this number to identify a shipment notification and writes it into all records of a shipment notification.

BAAN: Mapping to BAAN field TFtcedi702.bano

Position	**3**	Field format	**an..17**	Field status	**M**
Field name	**Network address customer / supplier**			(key field out/in)	

Description: This field contains on the outgoing side the network address of the supplier and on the incoming side the network address of the customer.

Processing outgoing

EDI subsystem:

BAAN: The network address is stored in the BAAN table tcedi028 ‘Relations by network’ under the corresponding business partner (supplier) and the corresponding network in the BAAN field TFtcedi028.neta. The contents of this field is mapped in the position of the transfer file.

Processing incoming

EDI subsystem:

BAAN: The network address determines the corresponding business partner (customer) and the network in the BAAN table tcedi028 ‘Relations by network’. This identification is mapped in the BAAN field TFtcedi702.reno.

Position	**4**	Field format	**n..9**	Field status	**M**
Field name		**MBOL-Number**			

Description: The Master Bill of Lading-Number (*Sendungs-Ladungs-Bezugs-Nummer*) is the number which the consigner assigns to the shipment/load.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc045.mbol to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc040.load

Position	**5**	Field format	**n..9**	Field status	**M**
Field name		**Shipping note number**			

Description: Describes the clear identification of the shipping note.

This field contains a clear shipping note number with a maximum of 9 digits.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc018.ides to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc040.ides.

Position	**6**	Field format	**n..3**	Field status	**M**
Field name		**Shipping note number position**			

Description: Describes the clear identification of the shipping note position.

This field contains a clear shipping note position with a maximum of 3 digits.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc018.pono to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to field tdpsc041.pono

Position	**7**	Field format	**an..35**	Field status	**M**
Field name		**Customer article code**			

Description: Describes the identification of the item by the customer.

This field contains the alphanumerical item identification with a maximum of 35 characters.

Processing outgoing

EDI-subsystem: None

BAAN: Mapping of BAAN field TFtdssc018.cpno to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to field tdpsc041.item.

Position	**8**	Field format	**an..35**	Field status	**M**
Field name		**Supplier article code**			

Description: Describes the identification of the item by the supplier.

This field contains the alphanumerical item identification with a maximum of 35 characters.

Processing outgoing

EDI-subsystem: None

BAAN: Mapping of BAAN field TFtdssc018.item to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to field tdpsc041.cpno.

Position	**9**	Field format	**an..3**	Field status	**M**
Field name		**Country of origin**			

Description: This field contains the identification of the country of origin for an item according to ODDC 6.

AT: Austria
BE: Belgium
CH: Switzerland
DE: Federal Republik of Germany
DK: Denmark
ES: Spain
FI: Finland
FR: France
GB: United Kingdom
GR: Greece
IE: Ireland
IT: Italy
LU: Luxembourg
NL: Netherlands
NO: Norway
PT: Portugal
SE: Sweden
TR: Turkey
YU: Yugoslavia

Processing outgoing

EDI-subsystem: None

BAAN: Conversion of field value of BAAN field TFtiitm001.ctyo. Mapping of conversion value to position.

Processing incoming

EDI subsystem: Conversion according to code table.

BAAN: Conversion of position value. Mapping of conversion value to BAAN field TFtdpsc041.ccty.

Position	**10**	Field format	**n..15**	Field status	**M**
Field name		**Shipped quantity**			

Description: Describes the shipped quantity of the related shipment notification position.

This field contains a numerical value for the shipped quantity. It is displayed in the following format: *'NNNNNNNNNNN.NNNN'*.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc018.cqty to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to field tdpsc041.iqty.

Position	**11**	Field format	**an..3**	Field status	**M**
Field name		**Unit of shipped quantity**			

Description: This field contains the encoded measure of the shipped quantity. The coding was carried out on the basis of ODETTE-Standard ODDC 25:
Millimeter MMT
Centimeter CMT
Meter MTR
Kilometer KMT
Square millimeter MMK
Square centimeter CMK
Square meter MTK
Cubic millimeter MMQ
Cubic centimeter CMQ
Cubic meter MTQ
Liter DMQ
Gram GRM
Kilogram KGM
Metric ton TON
Piece PCE

If you want to transfer additional units of measurement, you need to enter them in the session tcedi2130m000 ‘Maintain units’ for the company **BEM**.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc041.cuqp to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to field tdpsc041.cuqp.

Position	**12**	Field format	**an..17**	Field status	**C**
Field name		**Customer order number**			

Description: Describes the customer order number for the corresponding position of the contract.

This field contains an alphanumerical code with a maximum of 17 characters.

Processing outgoing

EDI-subsystem: None

BAAN: Mapping of BAAN field TFtdssc001.cono to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc041.cono.

Position	**13**	Field format	**n..15**	Field status	**C**
Field name		**Gross weight shipment position**			

Description: Describes the gross weight of the related shipment position.

This field contains a numerical value for the shipped quantity. It is displayed in the following format: *'NNNNNNNNNNN.NNNN'*.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc018.grwt to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc041.grwt.

Position	**14**	Field format	**an..1**	Field status	**C**
Field name		**Shipment notification code**			

Description: This field is reserved for later extensions.

Processing outgoing

EDI subsystem: None

BAAN: This position is not filled at the moment, here (...;"";...).

Processing incoming

EDI subsystem: None

BAAN: None

Position **15**	Field format	**out an..1 / in an..16**	Field status	**C**
Field name	**Lot number**			

Description: This field is reserved for later extensions.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc018.clot to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to field tdpsc041.clot

Position	**16**	Field format	**an..1**	Field status	**M**
Field name		**Use Code**			

Description: Describes the usage of encoded shipment positions.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc018.appc to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc041.appc.

Position	**17**	Field format	**an..1**	Field status	**M**
Field name		**Preference Status**			

Description: This field is reserved for later extensions.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of “G“ to position: (...;“G“;...).

Processing incoming

EDI subsystem: None

BAAN: None

Position	**18**	Field format	**an..1**	Field status	**M**
Field name		**Dutiable Goods**			

Description: This field is reserved for later extensions.

It will not be filled.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of one blank as fixed value to positon (...;“ “;...).

Processing incoming

EDI subsystem: None

BAAN: None

Position	**19**	Field format	**an..1**	Field status	**M**
Field name		**Key for changed item**			

Description: This field is reserved for later extensions.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of two blanks as fixed value to position: (...;“ “;...).

Processing incoming

EDI subsystem: None

BAAN: None

Position	**20**	Field format	**an..17**	Field status	**C**
Field name	**Customer Part Number Revision Level**				

Description: Record the current revision number of the Customers's Part Number.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc018.crev to position.

Processing incoming

EDI subsystem: None

BAAN: None.

Position	**21**	Field format	**an..17**	Field status	**C**
Field name	**Customer Part Number Revision Level Description**				

Description: Description of the revision change.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc605.desc to position.

Processing incoming

EDI subsystem: None

BAAN: None.

Position	**22**	Field format	n..8	Field status	**C**
Field name	**Customer Part Number Revision Level Effective Date**				

Description: Date on which the revision becomes effective. This date may not be less than or equal to an effective date of an earlier revision.

Format YYMMDD

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc605.refd to position.

Processing incoming

EDI subsystem: None

BAAN: None.

Position	**23**	Field format	n..8	Field status	**C**
Field name	**Customer Part Number Revision Level Expiry Date**				

Description: Date on which revision expires. This cannot be equal to or less than the effective date.

Format YYMMDD

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc605.rexd to position.

Processing incoming

EDI subsystem: None

BAAN: None.

BAAN: None.

Position	**24**	Field format	**an..30**	Field status	**C**
Field name	**Customer Part Number specially for BMW**				

Description: BMW wants to have a special Part Number. The maximum length is 22. Normally the part number has 7 or 10 positions. From position 17 to 22 BMW adds the revision information.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc018.iedi(5) to position. The position consists of TFtdssc018.cpno and starting with position 17 the information of TFtdssc018.crev.

Processing incoming

EDI subsystem: None

BAAN: None.

Position	**25**	Field format	**an..17**	Field status	**C**
Field name		**Customer order number**			

Description: Describes the customer order number which has been sent out within the corresponding schedule.

This field contains an alphanumerical code with a maximum of 17 characters.

Processing outgoing

EDI-subsystem: None

BAAN: Mapping of BAAN field TFtdssc018.cono to position.

Processing incoming

EDI subsystem: None

BAAN: None

Position	**26**	Field format	**an..17**	Field status	**C**
Field name		**Cumulative Delivered Quantity**			

Description: The total quantity of all shipments under the corresponding contract after this shipment positon has been delivered.

Field format: NNNNNNNN.NNNN (8.4)

Processing outgoing

EDI-subsystem: None

BAAN: Mapping of BAAN field TFtdssc07.cqty to position.

Processing incoming

EDI subsystem: None

BAAN: None

Position	**27**	Field format	**an7**	Field status	**M**
Field name		**End of record sign**			

Description: This field identifies the end of the record.

Contents: ‘SA4_END’

Processing outgoing

EDI-subsystem: None

BAAN: The position is filled with the fixed value ‘SA4_END’.

Processing incoming

EDI subsystem: The position is filled with the fixed value ‘SA4_END’.

BAAN: None

SA5 Packaging position

Status : Optional

Frequency: Repeatable by shipping note position

Description: This record type supports the transfer of position-specific packaging data. It is directly connected to the previous record type SA4 and can occur several times.

SHIPMENT NOTIFICATION INHOUSE FORMAT					**Mapping from Application Table Fields (out)**		**Mapping to Application Fields (in)**	
Pos	**FIELD DESCRIPTION**	**Key**	**ST**	**FM**	**Table Field**	**Action**	**Table Field**	**Action**
1	Record type	O/I	M	an3	SA5		SA5	
2	Message reference	O/I	M	an..14	tcedi701.bano	Generation (see below)	tcedi702.bano	Generation by EDI subsystem
3	Network address supplier / customer		M	an..17	tcedi028.neta	Conversion (see below)	tcedi702.reno	Conversion (see below)
4	MBOL-Number Number, which the consigner assigns to the shipment/load..	O/I	M	n..9	tdssc045.mbol		tdpsc040.load	
5	Shipping note number (shipping note header ssc017)	O/I	M	n..9 an..30	tdssc019.ides		tdpsc040.sdoc	
6	Position shipping note number	O/I	M	n..3	tdssc019.pono		tdpsc041.pono	
7	Packaging number customer		M	an..35 an..16	tdssc019.item	Conversion (see below)	tdpsc042.item	
8	Packaging number supplier		M	an..35 an..25	tdssc019.item		tdpsc042.sitm	
9	Number packages		M	n..6	tdssc019.puqt		tdpsc042.puqt	
10	Filling quantity		C	n..15	tdssc019.cqty		tdpsc042.cqty	
11	Unit of shipped quantity		C	an..3	tdssc018.cuqs	Conversion (see below)	tdpsc042.cuqs	Conversion (see below)
12	Serial number from		C	n..6 an..30	tdssc019.pnof		tdpsc042.pano	
13	Serial number to		C	n..6 an..30	tdssc019.pnot		tdpsc042.pant	
14	Storage load factor		C	an..1 n..4		not filled at the moment (...;"";...)	tdpsc042.stfc	

SHIPMENT NOTIFICATION INHOUSE FORMAT					**Mapping from Application Table Fields (out)**		**Mapping to Application Fields (in)**	
Pos	**FIELD DESCRIPTION**	**Key**	**ST**	**FM**	**Table Field**	**Action**	**Table Field**	**Action**
15	Label identification		C	n1	tdssc019.lblc		tdpsc042.lblc	
16	Packaging identification (returnable yes/no)		C	an1	tiitm001.onew		tdpsc042.pidn	
17	Property identification		C	an1			tdpsc042.prid	
18	Packaging Typ			n1	tdssc019.ptyp		tdpsc042.ptyp	
19	Parent Package Number			n..4 an..30	tdssc019.ppon		tdpsc042.ppno	
20	Parent Advice Note			n..9	tdssc019.pdes			
21	Parent Package Position			n..4	tdssc019.ppnb			
22	Qualifier item number		M	an2	SA		SA	
23	End of record sign Constant ‘SA5_END”		M	an7				

Detailed description of Shipment Notification, record type SA5 Packaging Position

Position	**1**	Field format	**an3**	Field status	**M**
Field name		**Record type**		(key field out/in)	

Description: This field identifies the record type in the message block.

It contains the fixed value ‘SA5’.

Processing outgoing

EDI subsystem: None

BAAN: The position is filled with the fixed value ‘SA5’.

Processing incoming

EDI subsystem: The position is filled with the fixed value ‘SA5’.

BAAN: None

Position	**2**	Field format	**an..14**	Field status	**M**
Field name		**Message reference**		(key field out/in)	

Description: This field identifies all connected records of one shipment notification. The message reference has to be clear by shipment notification. The numbering helps to control the chronological order of the shipment notifications and the complete transfer. The field consists of a fix part with four characters, the current date in the format YYMMDD and a serial number with four characters.

The special format is defined in the network parameters in BAAN table tcedi020. When generating the message reference with the EDI subsystem, the created message reference needs to be specific, that means unique. While storing the message reference BAAN controls whether it is specific.

Processing outgoing

EDI subsystem:

BAAN: BAAN generates this number to identify a shipment notification, stores it in the BAAN table field tcedi701.bano and writes it into all records of a shipment notification.

Processing incoming

EDI subsystem: The EDI subsystem generates this number to identify a shipment notification and writes it into all records of a shipment notification.

BAAN: Mapping to BAAN field TFtcedi702.bano

Position	**3**	Field format	**an..17**	Field status	**M**
Field name	**Network address customer / supplier**			(key field out/in)	

Description: This field contains on the outgoing side the network address of the supplier and on the incoming side the network address of the customer.

Processing outgoing

EDI subsystem:

BAAN: The network address is stored in the BAAN table tcedi028 ‘Relations by network’ under the corresponding business partner (supplier) and the corresponding network in the BAAN field TFtcedi028.neta. The contents of this field is mapped in the position of the transfer file.

Processing incoming

EDI subsystem:

BAAN: The network address determines the corresponding business partner (customer) and the network in the BAAN table tcedi028 ‘Relations by network’. This identification is mapped to the BAAN field Tftcedi702.reno.

Position	**4**	Field format	**n..9**	Field status	**M**
Field name		**MBOL-Number**			

Description: The Master Bill of Lading-Number (*Sendungs-Ladungs-Bezugs-Nummer*) is the number which the consigner assigns to the shipment/load.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc045.mbol to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc040.load

Position **5**	Field format **out n..9 / in an..30**	Field status **M**
Field name	**Shipping Note Number**	

Description: Describes the clear identification of the shipping note.

This field contains a clear shipping note number with a maximum of 9 digits.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc019.ides to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc040.sdoc.

Position **6**	Field format **n..3**	Field status **M**
Field name	**Position Shipping Note Number**	

Description: Describes the clear identification of the shipping note position.

This field contains a clear shipping note position with a maximum of 3 digits.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc019.pono to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc041.pono

Position **7**	Field format **out an..35 / in an..16**	Field status **M**
Field name	**Packaging Number Customer**	

Description: Describes the number, the customer assigned to the packaging.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc019.item to position after conversion of item codes to customer item codes.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to field tdpsc042.item

Position **8**	Field format	**out an..35 / in an..25**	Field status	**M**
Field name	**Packaging number supplier**			

Description: Describes the number, the supplier assigned to the packaging.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc019.item to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to field tdpsc042.sitm

Position	**9**	Field format	**n..6**	Field status	**M**
Field name	**Number packaging**				

Description: Describes the number of used packaging.

Contains a numerical code for the number of packaging. It is displayed in the following format: '*NNNNNN*'.

Processing outgoing

EDI subsystem: None

BAAN: None

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc042.puqt.

Position	**10**	Field format	**n..15**	Field status	**C**
Field name		**Filling quantity**			

Description: Describes the filling quantity of a packaging.

Contains a numerical code for the filling quantity. It is displayed in the following format: *'NNNNNNNNNNN.NNNN'*.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc019.cqty to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc042.cqty.

Position	**11**	Field format	**an..3**	Field status	**C**
Field name		**Unit of shipped quantity**			

Description: This field contains the encoded measure of quantity, in which the item is displayed. The coding was carried out on the basis of ODETTE-Standard ODDC 25:
Millimeter MMT
Centimeter CMT
Meter MTR
Kilometer KMT
Square millimeter MMK
Square centimeter CMK
Square meter MTK
Cubic millimeter MMQ
Cubic centimeter CMQ
Cubic meter MTQ
Liter DMQ
Gram GRM
Kilogram KGM

Metric ton TON
Piece PCE

If you want to transfer additional units of measurement, you need to enter them in the session tcedi2130m000 ‘Maintain units’ for the company **BEM**.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc018.cuqs to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc042.cuqs.

Position **12**	Field format **out n..6 / in an..30** Field status **C**
Field name	**Serial Number from**

Description: Describes the first internal serial number (from) of the shipment.

Contains a numerical code with a maximum of 6 digits for the packaging.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc019.pnof to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc042.pano.

Position **13**	Field format **out n..6 / in an..30** Field status **C**
Field name	**Serial number to**

Description: Describes the last internal serial number (to) of the shipment.

Contains a numerical code with a maximum of 6 digits for the packaging.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc019.pnot to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc042.pant

Position **14**	Field format **out an..1 / in n..4**	Field status **C**
Field name	**Storage load factor**	

Description: This field is reserved for later extensions.

Processing outgoing

EDI subsystem: None

BAAN: This position is not filled at the moment, here (...;"";...).

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc042.stfc.

Position	**15**	Field format	**n..1**	Field status	**C**
Field name	**Label Identification**				

Description: Barcode identification of the goods label.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdssc019.lblc.

BAAN writes 0 = empty
BAAN writes 1 = means G
BAAN writes 2 = means S
BAAN writes 3 = means M

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc042.lblc.

Position	**16**	Field format	**an1**	Field status	**C**
Field name		**Packaging identification**			

Description: This position is used as an indication whether this packing item can be reused

"1" means Yes

"2" mean No

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtiitm001.onew to position.

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc042.pidn.

Position	**17**	Field format	**an1**	Field status	**C**
Field name		**Property identification**			

Description: This field is reserved for later extensions.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc042.prid..

Processing incoming

EDI subsystem: None

BAAN: None

Position	**18**	Field format	**n1**	Field status	**C**
Field name		**Packaging Typ**			

Description: The package type identifies the way a package or container is used, and wheter it is an inner package or outer package.

Main: A package of type main can be used to pack other (smaller) containers or the deliverable item that is defined in the contract. If package levels are used, only one 'Main' package per level is allowed.

Auxiliary: These packages are normally collected by a 'Main' package and are therefore unlimited. Auxiliary packages are items such as spacers, lids and so on.

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc019.ptyp to position.

BAAN writes 1 = means Main
BAAN writes 2 = means Auxiliary

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc042.ptyp.

Position **19**	Field format	**out n..4 / in an...30**	Field status	**C**
Field name	**Parent Packaging Number**			

Description:

Processing outgoing

EDI subsystem: None

BAAN: This position is not filled at the moment, here (...;"";...).

Processing incoming

EDI subsystem: None

BAAN: Mapping of field value to BAAN field TFtdpsc042.ptyp.

Position	**20**	Field format	**n..9**	Field status	**C**
Field name		**Parent Advice Note**			

Description:

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc019.pdes to position.

Processing incoming

EDI subsystem: None

BAAN: None

Position	**21**	Field format	**n..9**	Field status	**C**
Field name		**Parent Package Number**			

Description:

Processing outgoing

EDI subsystem: None

BAAN: Mapping of BAAN field TFtdssc019.ppnb to position.

Processing incoming

EDI subsystem: None

BAAN: None

Position	**22**	Field format	**an2**	Field status	**M**
Field name		**Qualifier Item Number**			

Description: This field contains the qualifier item number which is used to determine the item number from the *Customer's item number* in position 5. This position must be filled with the constant value 'SA' ('SA' = supplier's item number).

Processing outgoing

EDI subsystem: None

BAAN: This field will be filled with the constant value ‘SA’.

Processing incoming

EDI subsystem: This field will be filled with the constant value ‘SA’.

BAAN: The qualifier must have been entered in the BAAN table TBtcedi232 (Item number IDs). It will be taken into account when the BAAN internal item number is determined from the customer’s item number in position 5.

Position	**23**	Field format	**an..7**	Field status	**M**
Field name		**End of Record Sign**			

Description: The field identifies the end of the record.

Contents: ‘SA5_END’

Processing outgoing

EDI subsystem: None

BAAN: The position is filled with the fixed value ‘SA5_END’.

Processing incoming

EDI subsystem: The position is filled with the fixed value ‘SA5_END’.

BAAN: None

3 Sample file incoming/outgoing message

```
"SA1";"F8109811120019";"Metall
Isernhg.";"F810";"LFAVIS";"BEMIS";"4913";"";19981

112;1123;"";"SA1_END"

"SA2";"F8109811120019";"Metall
Isernhg.";100101;"Forwarding Agent";;0;2;;"01";0;

"";"";"";"";;0;"MTQ";"";"SA2_END"

"SA3";"F8109811120019";"Metall
Isernhg.";100101;100472;"06011998810";19980902;11

00;19980930;0;19980930;0;19980930;"TDB3";"01";"";"26";
"";"";"";"1";0;"";;"";0;0;

0;0;2;"";"Ford add. Plant";"DP";"SA3_END"

"SA4";"F8109811120019";"Metall
Isernhg.";100101;100472;10;"810 005 001 - 1000";"

810 005
001";"";10;"KGM";"000006";2;"";"0000000000000001";"S";
"G";"";"";"";"";19

980930;19980930;"810 005 001 -
10";"123456";0;"SA4_END"

"SA5";"F8109811120019";"Metall
Isernhg.";100101;100472;10;"100";"KLT4316";1;10;"

KGM";0;0;"";0;2;"";1;0;0;0;"SA";"SA5_END"

"SA1";"F8109811120020";"Metall
Isernhg.";"F810";"LFAVIS";"BEMIS";"4913";"";19981

112;1123;"";"SA1_END"

"SA2";"F8109811120020";"Metall
Isernhg.";100102;"Forwarding Agent";19980902;1830

;4;;"01";0;"";"AS 9844";"";"";;0;"MTQ";"";"SA2_END"
```

```
"SA3";"F8109811120020";"Metall
Isernhg.";100102;100473;"06011998810";19980902;17

10;19981002;0;19981002;0;19981002;"TDB3";"01";"";"26";
"";"";"";"1";0;"";;"";0;0;

0;0;4;"";"Ford add. Plant";"DP";"SA3_END"

"SA4";"F8109811120020";"Metall
Isernhg.";100102;100473;10;"810 005 001 - 1000";"

810 005
001";"";20;"KGM";"000006";40;"";"0000000000000001";"S"
;"G";"";"";"";"";1

9981002;19981002;"810 005 001 -
10";"123456";0;"SA4_END"

"SA5";"F8109811120020";"Metall
Isernhg.";100102;100473;10;"100";"KLT4316";2;10;"

KGM";0;0;"";0;2;"";1;0;0;0;"SA";"SA5_END"
```

4 Glossary of terms and abbreviations

ABRUF	Schedule
Appl	Application
ANSI	American National Standards Organization
BEM	Baan Electronic Message - abbreviated form of BEMIS used with the definition of the EDI organization
BEMIS	Baan Electronic Message Interchange System
Business partner (BP)	Customer or supplier
C	Conditional, that is, optional message
defaults.edi	Export file detailing master EDI data
DELINS	Odette Delivery Instruction (Schedule)
Directory	Folder
EDI	Electronic Data Interchange; electronic exchange of documents in standard formats
EDIFACT	Electronic Data Exchange For Administration, Commerce and Transport. An ISO standard.
ELP	External Logistic partner
evaluation expression	If statement in the conversion setup for outgoing messages
ISO	International Standards Organization
ISO 4217	Code table
M	Mandatory (compulsory) message
MAIS	General Motor's interpretation of the subset of EDIFACT DELJIT Message
Messg	Message
network address	Folder (directory) path on network
ODDC	Odette Code Table
ODDC25	Odette Code Table 25
ODETTE	European standard for electronic data exchange
Org	Organization, that is, system
SCH	Supply Chain
Semaphore	Method to show a status using files with zero length

Translation	Conversion of one data format to another, for example Baan in-house data format to ODETTE
VAT	Value Added Tax (tax on turnover; sales tax)
VDA	Standard used for electronic data exchange in Germany
X12	Standard used for electronic data exchange in the United States