Definition of BEMIS FMS001 Import and Export File for Business Document Carrier Status Information



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About this Guide

Objective

This document describes the content and the corresponding structure of the EDI message "Carrier Status Information", which is supported by Baan Electronic Message, the ERP LN In-house format.

The message's content refers to the following origin message types and gives their attribution to the transferred ASCII file of the BEMIS format.

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ANSI X12 214

The message structure is defined by referring to the incoming direction.

The document contains the following chapters:

Chapter 1, "General Principles", provides a general introduction to the EDI in-house format for the Business Document Type Carrier Status Information.

Chapter 2, "Data Record Description by Type of Data Record", describes in detail the data records used for the EDI in-house format of EDI message Carrier Status Information.

Chapter 3, "Definitions, Acronyms, and Abbreviations", provides a glossary of terms used in Infor ERP LN and in this document, and also a list of abbreviations.

Appendix A, "Sample File", provides a sample file for the incoming message FMS001.

Intended audience

This document is intended for the following categories of users:

- Users who want to understand what the processed information of the EDI messages in ERP LN are.
- Users who develop the translation from external EDI format to the inhouse format.

References

The following documents might be of importance:

| No. | Document number | Title |
|-----|-----------------|---|
| 1 | U8912B US | User's Guide for BEMIS |
| 2 | U8998B US | User's Guide for BEMIS Business documents |

Send us your comments

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In your e-mail, refer to the document code and title. More specific information will enable us to process feedback efficiently.

Chapter 1 General Principles

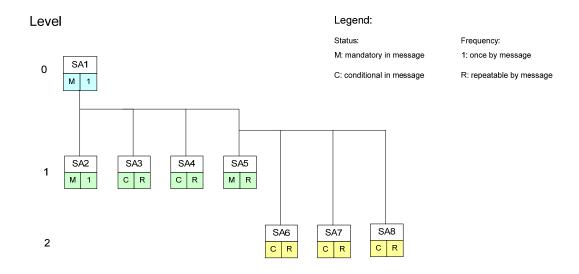
Available types of data records

This section describes the EDI In-house format for the Business Document Type Carrier Status Information (incoming). When you transmit information about loads, the use of the following types of data records is conditional (C) or respectively mandatory (M).

| ID | Status | Name |
|-----|--------|----------------------|
| SA1 | M | Global Overhead |
| SA2 | M | Load |
| SA3 | С | Load Address |
| SA4 | С | Load Address Text |
| SA5 | M | Shipments |
| SA6 | С | Shipment's Addresses |
| SA7 | С | Shipment Text |
| SA8 | M | Shipment Lines |

Branching diagrams

The following data record structure is used for the BEMIS message type Carrier Status Information:



For example, for two loads with each two shipments the BEMIS file has the following structure:

SA1 ... Global Overhead

SA2 ... Load 1

SA5 ... Shipment 11

SA8 ... Shipment Line 111

SA8 ... Shipment Line 112

SA5 ... Shipment 12

SA8 ... Shipment Line 121

SA1 ... Global Overhead

SA2 ... Load 2

SA5 ... Shipment 21

SA8 ... Shipment Line 211

SA8 ... Shipment Line 212

SA5 ... Shipment 22

SA8 ... Shipment Line 221

SA8 ... Shipment Line 222

Key fields incoming

The incoming message refers to the carrier and the Shipments by Load.

The following structure of the key fields is used to determine the related data records of a Carrier Status Information message:

| Sorted by Key | | | | | | | |
|---------------|----------|--------------|-----------|---------|----------|--|--|
| Type Da | ata Rec. | key 1 | key 2 | Key 3 | key 4 | | |
| field 1 | Backpt | | | | | | |
| SA1 | | Message ref. | BP net ID | | | | |
| SA2 | 1 | Message ref. | BP net ID | Load No | | | |
| SA3 | 2 | Message ref. | BP net ID | Load No | | | |
| SA4 | 2 | Message ref. | BP net ID | Load No | | | |
| SA5 | 2 | Message ref. | BP net ID | Load No | | | |
| SA6 | 5 | Message ref. | BP net ID | Load No | Shipment | | |
| SA7 | 5 | Message ref. | BP net ID | Load No | Shipment | | |
| SA8 | 5 | Message ref. | BP net ID | Load No | Shipment | | |

Business partner relations

The following table shows the business partner relations:

| Incoming Carrier Status Information | | | | | |
|-------------------------------------|---------------|--|--|--|--|
| Buy-from BP ecedi702.bpid | | | | | |
| Carrier | fmlbd450.cfrw | | | | |

Network directories

In the Direct Network Communication (ecedi7205m000) session, the user can receive and generate EDI messages.

As written in the User's Guide EDI Business Document [2], the communication is done between the EDI Sub-System and ERP LN to transfer the message's ASCII files across the specific network. This communication is based on the network directories that are established in ERP LN.

The network basis directories for each network will be defined in the ecedi0120m000 session.

The ERP LN user can decide the structure of the used network directories, such as the following:

- For every message type, one network directory can be used for outgoing messages and one can be used for incoming messages. This means that one message file contains data for several business partners.
- For a group of message types, such as Loads, one network directory can be used for outgoing messages and one can be used for incoming messages.
- Every business partner can use their own network directory, and the files would be able to contain data for several messages types.

Infor recommends the second possibility.

For the network BEMIS, for example the basis directories can be indicated in the following way:

/\${BSE}/edi/bemis/Load/

ERP LN will additionally create the following subdirectories:

- /\${BSE}/edi/bemis/Load/appl_from/
- /\${BSE}/edi/bemis/Load/appl_to/
- /\${BSE}/edi/bemis/Load/command/
- /\${BSE}/edi/bemis/Load/store_recv/
- /\${BSE}/edi/bemis/Load/store_sent/
- /\${BSE}/edi/bemis/Load/trace/

The above mentioned directories refers to one message type "Carrier Status Information", the directories have the following function:

- .../appl_from/: In this directory, ERP LN records the outgoing messages
 that are the defined BEMIS in-house format files. The EDI Subsystem
 can collect them from here.
- .../appl_to/: The EDI Subsystem writes the incoming message into this directory in the ERP LN in-house format.
- .../command/: A directory of the semaphores.
- .../store_recv/: ERP LN stores processed incoming messages in this
 directory, if the corresponding EDI parameter is set in this way. During
 this process, an additional subdirectory by incoming message file is
 created; the subdirectory is named with a date and time stamp that
 indicates when the message was moved.
- .../store_sent/: ERP LN stores processed outgoing messages in this
 directory, if the corresponding EDI parameter is set in this way. During
 this process, an additional subdirectory by incoming message file is
 created; the subdirectory is named with a date and time stamp that
 indicates when the message was moved.
- .../trace/: ERP LN creates a log of the incoming messages and outgoing messages in the processing order in this directory, if the corresponding EDI parameter is set in this way.

The file name of the BEMIS in-house format files of the Carrier Status Information which is being described in this documentation, is defined in the following way:

| Direction | File Name | Network Directory |
|-----------|------------|---------------------------------|
| outgoing | | |
| incoming | fms001.txt | /\${BSE}/edi/bemis/Load/appl_to |

ERP LN - BEMIS Messages - Conventions

Written in User's Guide for BEMIS [1] Infor uses rules to structure the EDI message.

- Each data segment is defined by a unique code in an EDI message. The format of the data segment code is SA99. Each segment (message record) starts with the unique code "Sax"; the message record ends with "SAx_END".
- The length of the several data segments can vary.
- Even if some fields do not contain a value, each data segment (message record) must consist of all fields.
- The fields in the file must be separated by a defined sign, such as a semicolon (;)
- A filled string field must be put inside quotation marks ("....").
- If a position in a BEMIS Message File is not taken by a value, which means that the position is empty, then the position is pointed out using two semicolons. Also, the ERP LN EDI Module distinguishes between numerical data and alphanumerical data format, as shown in the following examples:

Empty numerical Position: "SAx"; ...; "SAx_END"

Empty alphanumerical Position: Infor differs between the following, in case the field exists in the LN database:

```
"SAx"; ...; "...; "SAx_END" and "SAx"; ...; ""; ...; "SAx_END"
```

In the following sections are the format descriptions of the individual types of data segments (message records) of the interface file. The table contains the following data:

ORDER INHOUSE FORMAT

| Pos | Field description | Key | ST | FM | |
|-----|-------------------|-----|----|----|--|
| | | | | | |

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

Pos. Position of the field in the data record

Field description Description of the field

Key Key field outgoing (O) / incoming (I)

ST Field status mandatory (M) / conditional (C)

FM Field format, for example

an..14 = alphanumerical field with a maximum of 14

characters

an14 = alphanumerical field with exactly 14 charactersn..10 = numerical field with a maximum of 10 characters

n1 = numerical field with exactly 1 character

The second block of the table describes the corresponding table field in ERP LN and describes possible special actions, which will be carried out when the messages are being processed.

from Application Table Field (out) / Mapping to Table Field (in)

| Table Field | Action |
|-------------|--------|
| | |

Following the table overview, every field is described in a more detailed way, including information about the processing in the EDI Sub-System and in ERP LN.

Consider one exception: if a position of the data record is not currently used, then Infor omits the detailed description of this empty position.

What is new in comparison to BEMIS for BAAN V?

 The new message refers to the Freight Management and sends the Carrier Status Information of the Load. Infor has not an analogy in Baan V.

Chapter 2 Data Record Description by Type of Data Record

SA1 Message Overhead

Status: Mandatory

Frequency: Once by Carrier Status Information

Description: This data record contains information about the transmitter, the

message type and the time of the transmission. The message reference identifies all related data records of this message.

| Carrier Status Information In-house Format | | | Mapping from Ap | plication | Mapping to Appli Fields (in) | cation Table | | |
|---|----------------------|-----|-----------------|-----------|---------------------------------|--------------|---------------|-------------------------------------|
| Pos | Field Description | Key | ST | FM | Table field | Action | Table field | Action |
| 1 | Type of data record | I | М | an3 | | | SA1 | |
| 2 | Message Reference | I | М | an35 | | | ecedi701.bano | Generation by EDI Sub- System |
| 3 | Net ID of Sender | I | М | an17 | | | ecedi702.bpid | Conversion (see below) |
| 4 | Load Number | | М | an9 | | | ecedi702.msno | |

| | Carrier Status Info In-house Forn | | l | Mapping from Application Table Fields (out) | Mapping to Application | ation Table |
|----|--------------------------------------|---|------|---|------------------------|------------------------|
| 5 | | | | | | |
| 6 | Organization | М | an6 | | ecedi702.orga | Conversion (see below) |
| 7 | Message | М | an6 | | ecedi702.mess | Conversion (see below) |
| 8 | Order Type | М | an35 | | ecedi702.koor | Conversion (see below) |
| 9 | | | | | | |
| 10 | Transmission Date Time | М | n8 | | current date / time | |
| 11 | | | | | | |
| 12 | Test | М | an1 | | ecedi702.test | |
| 13 | Data record end sign | М | an7 | | SA1_END | |

Detailed description: **Carrier Status Information**

Type of data record: SA1 Overhead

| Position 1 | Field Format an3 | Field Status | М |
|------------------------------------|---|---|-----------|
| Field Name | Type of Data Record | Key field In | |
| Description | This field identifies the type o contains the constant value 'S | f data record in the message I SA1'. | block. It |
| Processing outgoing EDI Sub-System | | | |
| ERP LN | | | |
| Processing Incoming EDI Sub-System | This field will be filled with the | e constant value 'SA1'. | |
| ERP LN | None | | |

| Position 2 | Field Format an14 | Field Status | М | | |
|---------------------------------------|---|---|------------------|--|--|
| Field Name | Message Reference | Key field In | | | |
| Description | Information. The numbering, Information, helps to control Information and the complete with four characters, the curr number with four characters. The special format will be de LN table ecedio20. When ge Sub-System, the created me | This field identifies all connected data records of one Carrier Status Information. The numbering, which has to be clear by Carrier Status Information, helps to control the chronological order of the Carrier Status Information and the complete transmission. The field consists of a fix item with four characters, the current date (format: YYMMDD) and a serial number with four characters. The special format will be defined in the network parameters in the ERP LN table ecedi020. When generating the message reference with the EDI Sub-System, the created message reference needs to be specific, which means unique. While storing the message reference ERP LN controls | | | |
| Processing outgoing EDI Sub-System | | | | | |
| ERP LN | | | | | |
| Processing Incoming EDI Sub-System | The EDI Sub-System genera it into all data records of an F | tes this number to identify an | order and writes | | |
| ERP LN | Mapping to ERP LN table fie | d ecedi702.bano. | | | |

| Position 3 | Field Format | an17 | Field Status | М |
|---------------------------------------|---------------------------------|--------------------|--|-------------|
| Field Name | Net ID of sender | | Key field Out | |
| Description | This field contains the Number) | e identification o | f the sender (for examp | le the ILN |
| Processing outgoing EDI Sub-System | Transmission of the va | alue from the me | essage file. | |
| ERP LN | | | | |
| Processing Incoming EDI Sub-System | | | | |
| ERP LN | partner (customer) an | d the network in | mines the correspondin n the table ecedi028 'Re d to the ERP LN table fi | elations by |

| Position 4 | Field Format | an20 | Field Status | М |
|------------------------------------|---------------------|------------------|-----------------------------------|----------------|
| Field Name | Load Number | | | |
| Description | This field contains | the Load Numb | er referring to the inform | ation message. |
| Processing outgoing EDI Sub-System | | | | |
| ERP LN | | | | |
| Processing Incoming EDI Sub-System | Transmission of the | e value from the | transmission file. | |
| ERP LN | Mapping to ERP L | | edi702.msno. This field s ber. | hould contain |

| Position 6 | Field Format | an6 | Field Status | М |
|---------------------------------------|---|---|--|--|
| Field Name | <u>Message</u> | | | |
| Description | | | e identification of the con age type 'Carrier Status I | |
| Processing outgoing EDI Sub-System | | | | |
| ERP LN | | | | |
| Processing Incoming EDI Sub-System | This field will be fi | lled with the con | stant value 'FMS001'. | |
| ERP LN | determines which Status Information determined for ev | internal messag n. In the ERP LN ery message wh age. The messa | redi001 'Supported EDI Mage in ERP LN is connected table ecedi005 'EDI Menich session (DLL) is use age code is mapped to the | ed to this Carrier ssages' is d in ERP LN to |

| Position 7 | Field Format an6 Field Status M |
|---------------------------------------|--|
| Field Name | <u>Organization</u> |
| Description | This field contains the organization (Standard), which is used for the EDI communication. |
| Processing outgoing EDI Sub-System | |
| ERP LN | |
| Processing Incoming EDI Sub-System | This field will be filled with the constant value 'BEMIS'. |
| ERP LN | Mapping to ERP LN table field ecedi702.orga. The corresponding Organization must have been entered into the ERP LN table ecedi003.None |

| Position 8 | Field Format | an35 | Field Status | М |
|---------------------------------------|---------------------|-------------------|--|---|
| Field Name | Order Type | | | |
| Description | This field contains | s a code for the | concerned order type. | |
| Processing outgoing EDI Sub-System | | | | |
| ERP LN | | | | |
| Processing Incoming EDI Sub-System | | | | |
| ERP LN | 0 | ust be an entry t | edi702.koor. In the ERP l for this order type in conn ation. | |

| Position 10 | Field Format | n8 | Field Status | М |
|---------------------------------------|-------------------|------------------|---|---|
| Field Name | Transmission Da | te /Time | | |
| Description | | ŭ | ng side the current date, or age was created (format: Y | |
| Processing outgoing EDI Sub-System | | | | |
| ERP LN | Mapping of the cu | rrent date / tim | e to the position. | |
| Processing Incoming EDI Sub-System | | | | |
| ERP LN | | | | |

| Position 11 | Field Format | n6 | Field Status | М |
|------------------------------------|--|--------------------|--|------------|
| Field Name | Transmission Time | <u>e</u> | | |
| Description | This field contains of at the EDI Sub-Syst | | e / time of the Carrier Stat MMSS). | us message |
| Processing outgoing EDI Sub-System | | | | |
| ERP LN | | | | |
| Processing Incoming EDI Sub-System | Entry of the arrival of | date / time of the | message at the EDI Sub- | System. |
| ERP LN | Mapping to ERP LN | I table field eced | i702.send | |

| Position 12 | Field Format an1 Field Status C |
|---------------------------------------|--|
| Field Name | Identifier of Test |
| Description | This field contains the code that will identify incoming messages for this organization as test messages. A test message is checked, but not copied to the database. |
| Processing outgoing EDI Sub-System | |
| ERP LN | |
| Processing Incoming EDI Sub-System | Transmission of the value from the transmission file. |
| ERP LN | Mapping to ERP LN table field ecedi702.test. |

| Position 12 | Field Format | an7 | Field Status | М |
|---------------------------------------|---|------------------|----------------------------|--------------------|
| Field Name | Data Record end | l sign | | |
| Description | This field identifie the constant value | | ta record in the message b | block. It contains |
| Processing outgoing EDI Sub-System | | | | |
| ERP LN | | | | |
| Processing Incoming EDI Sub-System | This field will be fil | led with the cor | nstant value 'SA1_END' | |
| ERP LN | None | | | |

SA2 Load

Mandatory Status:

Once by Load Frequency:

Description: This data record contains all information of the Load except of

address and text data, and it is related to SA1.

| Carrier Status Information In-house Format | | Mapping from Application Table Fields (out) | | Mapping to Application Table Fields (in) | | | | |
|---|----------------------|---|----|--|-------------|--------|---------------|-------------------------------------|
| Pos | Field Description | Key | ST | FM | Table field | Action | Table field | Action |
| 1 | Type of data record | I | М | an3 | | | SA2 | |
| 2 | Message Reference | I | M | an35 | | | ecedi701.bano | Generation by EDI Sub- System |
| 3 | Net ID of Sender | I | М | an17 | | | ecedi702.bpid | Conversion (see below) |
| 4 | Load Number | | М | an9 | | | fmlbd450.load | |
| 5 | Carrier | | М | an9 | | | fmlbd450.cfrw | Conversion |
| 6 | | | | | | | | |
| 7 | Data record end sign | | М | an7 | | | SA2_END | |

ERP LN

Detailed description: Carrier Status Information

None

Type of data record: SA2 Load

| Position 1 | Field Format an3 | Field Status | М |
|---------------------------------------|---|-----------------------|---------|
| Field Name | Type of Data Record | Key field In | |
| Description | This field identifies the type of contains the constant value 'SA | · · | ock. It |
| Processing outgoing EDI Sub-System | | | |
| ERP LN | | | |
| Processing Incoming EDI Sub-System | This field will be filled with the o | constant value 'SA1'. | |

| Position 2 | Field Format an14 | Field Status | M | | | |
|---------------------------------------|---|---|---|--|--|--|
| Field Name | Message Reference | Key field In | | | | |
| Description | This field identifies all connected Information. The numbering, when Information, helps to control the Information and the complete to with four characters, the current number with four characters. | hich has to be clear by Carrie e chronological order of the C ransmission. The field consis | er Status carrier Status ts of a fix item | | | |
| | LN table ecedi020. When gene Sub-System, the created mess. | The special format will be defined in the network parameters in the ERP LN table ecedio20. When generating the message reference with the EDI Sub-System, the created message reference needs to be specific, which means unique. While storing the message reference ERP LN controls whether it is specific. | | | | |
| Processing outgoing EDI Sub-System | | | | | | |
| ERP LN | | | | | | |
| Processing Incoming EDI Sub-System | The EDI Sub-System generates it into all data records of an FM | • | rder and writes | | | |
| ERP LN | Mapping to ERP LN table field | ecedi702.bano. | | | | |

| Position 3 | Field Format a | an17 Field Status | М |
|---------------------------------------|--------------------------------------|--|-----------------|
| Field Name | Net ID of sender | Key field In | |
| Description | This field contains the i Number) | dentification of the sender (for exa | ample the ILN |
| Processing outgoing EDI Sub-System | Transmission of the value | ue from the message file. | |
| ERP LN | | | |
| Processing Incoming EDI Sub-System | | | |
| ERP LN | partner (customer) and | e sender determines the correspond the network in the table ecedio28 ation is mapped to the ERP LN tab | 3 'Relations by |

| Position 4 | Field Format | an9 | Field Status | М |
|---------------------------------------|--------------------------------------|--------------------|----------------------------------|------------|
| Field Name | Load Number | | | |
| Description | This field contains t | ne Load Number | referring to the information | n message. |
| Processing outgoing EDI Sub-System | | | | |
| ERP LN | | | | |
| Processing Incoming EDI Sub-System | Transmission of the | value from the tra | ınsmission file. | |
| ERP LN | Mapping to ERP LN the customer purch | | 702.msno. This field shoul r. | d contain |

| Position 5 | Field Format | an3 | Field Status | М |
|---------------------------------------|--|-------------------|---------------------------|------------|
| Field Name | <u>Carrier</u> | | | |
| Description | This field contains the | e code of the ca | rrier. | |
| Processing outgoing EDI Sub-System | | | | |
| ERP LN | | | | |
| Processing Incoming EDI Sub-System | Transmission of the | value from the m | essage file. | |
| ERP LN | Mapping to the ERP LLN table ecedi318. | N table field fml | bd450.cfrw and conversion | n with ERP |

| Position 7 | Field Format an | 7 Field Status | М |
|---------------------------------------|---|--|--------------------|
| Field Name | Data Record end sign | | |
| Description | This field identifies the er the constant value 'SA2_ | nd of data record in the message END'. | block. It contains |
| Processing outgoing EDI Sub-System | | | |
| ERP LN | | | |
| Processing Incoming EDI Sub-System | This field will be filled wit | n the constant value 'SA2_END'. | |
| ERP LN | None | | |

SA3 Load Addresses

Status: Conditional

Twice by Load Frequency:

Description: This data record contains the specific addresses of the Load and

is related data record SA2.

This data record is not be used currently.

SA4 Load Address Text

Status: Conditional

Frequency: Multiple by Load

Description: This data record contains the text information of a Load Address

and is related to SA2.

This data record is not be used currently.

SA5 Shipments

Mandatory Status:

Frequency: Multiple by Load

Description: This data record contains the Shipments of the load and is related

to SA2.

| | | Mapping from Application Table Fields (out) | | Mapping to Application Table Fields (in) | | | | |
|-----|-----------------------|---|----|--|-------------|--------|---------------|-------------------------------------|
| Pos | Field Description | Key | ST | FM | Table field | Action | Table field | Action |
| 1 | Type of data record | I | М | an3 | | | SA5 | |
| 2 | Message Reference | I | М | an35 | | | ecedi701.bano | Generation by EDI Sub- System |
| 3 | Net ID of Sender | I | M | an17 | | | ecedi702.bpid | Conversion (see below) |
| 4 | Load Number | 1 | М | an9 | | | fmlbd450.load | |
| 5 | Shipment | | М | an9 | | | fmlbd450.shpm | |
| 6 | Carrier PRO Number | | С | an30 | | | fmlbd450.cpro | |
| 7 | Load Status | | М | an1 | | | fmlbd450.stat | |
| 8 | Actual Unload date | | С | n14 | | | fmlbd450.adat | |
| 9 | | | | | | | | |
| 10 | Data record end sign | | М | an7 | | | SA5_END | |

Detailed description: Carrier Status Information

Type of data record: SA5 Shipments

| Position 1 | Field Format an3 | Field Status | М |
|------------------------------------|---|---|-----------|
| Field Name | Type of Data Record | Key field In | |
| Description | This field identifies the type o contains the constant value 'S | f data record in the message I SA1'. | block. It |
| Processing outgoing EDI Sub-System | | | |
| ERP LN | | | |
| Processing Incoming EDI Sub-System | This field will be filled with the | e constant value 'SA1'. | |
| ERP LN | None | | |

| Position 2 | Field Format an14 | Field Status M | | | |
|---------------------------------------|---|---|--|--|--|
| Field Name | Message Reference | Key field In | | | |
| Description | Information. The numbering, Information, helps to control to Information and the complete with four characters, the currenumber with four characters. The special format will be defuncted to LN table ecedio20. When ger Sub-System, the created mess | The special format will be defined in the network parameters in the ERP LN table ecedio20. When generating the message reference with the EDI Sub-System, the created message reference needs to be specific, which means unique. While storing the message reference ERP LN controls | | | |
| Processing outgoing EDI Sub-System | | | | | |
| ERP LN | | | | | |
| Processing Incoming EDI Sub-System | , , | The EDI Sub-System generates this number to identify an order and writes it into all data records of an FMS001 message. | | | |
| ERP LN | Mapping to ERP LN table fiel | d ecedi702.bano. | | | |

| Position 3 | Field Format a | an17 Field Status | М |
|---------------------------------------|--------------------------------------|--|-----------------|
| Field Name | Net ID of sender | Key field In | |
| Description | This field contains the i Number) | dentification of the sender (for exa | ample the ILN |
| Processing outgoing EDI Sub-System | Transmission of the value | ue from the message file. | |
| ERP LN | | | |
| Processing Incoming EDI Sub-System | | | |
| ERP LN | partner (customer) and | e sender determines the correspond the network in the table ecedio28 ation is mapped to the ERP LN tab | 3 'Relations by |

| Position 4 | Field Format | an9 | Field Status | М |
|---------------------------------------|--------------------------------------|--------------------|-------------------------------|---------------|
| Field Name | Load Number | | Key field In | |
| Description | This field contains | the Load Number | referring to the informa | tion message. |
| Processing outgoing EDI Sub-System | | | | |
| ERP LN | | | | |
| Processing Incoming EDI Sub-System | Transmission of the | value from the tra | ansmission file. | |
| ERP LN | Mapping to ERP LI the customer purch | | 702.msno. This field sh r. | ould contain |

| Position 5 | Field Format | an9 | Field Status | М |
|---------------------------------------|------------------------|-------------------|---------------------------|---|
| Field Name | <u>Shipment</u> | | | |
| Description | This field contains th | e Shipment num | ber assigned to the Load. | |
| Processing outgoing EDI Sub-System | | | | |
| ERP LN | | | | |
| Processing Incoming EDI Sub-System | Transmission of the v | alue from the mo | essage file. | |
| ERP LN | Mapping to ERP LN t | able field fmlbd4 | 50shpm | |

| Position 6 | Field Format | an30 | Field Status | С |
|---------------------------------------|-------------------------|--------------------|-----------------------------|---|
| Field Name | Carrier PRO Numb | <u>er</u> | | |
| Description | This field contains the | ne Carrier PRO N | lumber to identify the load | |
| Processing outgoing EDI Sub-System | | | | |
| ERP LN | | | | |
| Processing Incoming EDI Sub-System | Transmission of the | value from the mo | essage file. | |
| ERP LN | Mapping to ERP LN | table field fmlbd4 | 50.cpro | |

| Position 7 | Field Format | an1 Field Sta | atus C |
|------------------------------------|--|--|-------------------------|
| Field Name | Load Status | | |
| Description | This field contains the referring to following p | e status of the load or the sl possible values: | hipment; use the number |
| | 1 = In Progress | 2 = Delivered | 3 = Bad Order |
| | 4 = At Customs | 5 = Storage in Transit | 6 = Load Cancelled |
| | 7 = Held Consignee (| Closed | |
| Processing outgoing EDI Sub-System | | | |
| ERP LN | | | |
| Processing Incoming EDI Sub-System | Transmission of the va | alue from the message file. | |

ERP LN

Mapping to ERP LN table field fmlbd450.stat

| Position 8 | Field Format | n14 | Field Status | С |
|---------------------------------------|--|--------------------|------------------------|-----------|
| Field Name | Actual Unload Da | ate_ | | |
| Description | This field contains unloading the ship | | ad date / time (YYYYMM | DDHHMMSS) |
| Processing outgoing EDI Sub-System | | | | |
| ERP LN | | | | |
| Processing Incoming EDI Sub-System | Transmission of th | e value from the | e message file. | |
| ERP LN | Mapping to ERP L | N table field fmll | bd450.adat | |

| Position 10 | Field Format an7 Field Status M |
|---------------------------------------|--|
| Field Name | Data Record end sign |
| Description | This field identifies the end of data record in the message block. It contains the constant value 'SA5_END'. |
| Processing outgoing EDI Sub-System | |
| ERP LN | |
| Processing Incoming EDI Sub-System | This field will be filled with the constant value 'SA5_END'. |
| ERP LN | None |

SA6 Shipment Addresses

Status: Conditional

Frequency: Multiple by Load

Description: This data record contains the specific addresses of the Shipment

and is related data record SA5.

This data record is not be used currently.

SA7 Shipment Text

Status: Conditional

Multiple by Load Frequency:

Description: This data record contains the text information of a Shipment and

is related to SA5.

This data record is not be used currently.

SA8 Shipment Lines

Status: Mandatory

Frequency: Multiple by Load

Description: This data records contain information about the shipped items; it

is related to SA5.

| | Carrier Status In-house | | | | Mapping from Ap | - | Mapping to Appli Fields (in) | cation Table |
|-----|----------------------------|-----|----|------|-----------------|--------|---------------------------------|-------------------------------------|
| Pos | Field Description | Key | ST | FM | Table field | Action | Table field | Action |
| 1 | Type of data record | I | М | an3 | | | SA8 | |
| 2 | Message Reference | I | M | an35 | | | ecedi701.bano | Generation by EDI Sub- System |
| 3 | Net ID of Sender | I | М | an17 | | | ecedi702.bpid | Conversion (see below) |
| 4 | Load Number | I | М | an9 | | | fmlbd450.load | |
| 5 | Shipment | 1 | М | an9 | | | fmlbd450.shpm | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | Shipment Line Number | | С | n14 | | | fmlbd450.pono | |
| 9 | | | | | | | | |
| 10 | Data record end sign | | М | an7 | | | SA8_END | |

Detailed description: **Carrier Status Information**

Type of data record: SA8 Shipment Line

| Position 1 | Field Format an3 | Field Status M |
|------------------------------------|---|--------------------|
| Field Name | Type of Data Record | Key field In |
| Description | This field identifies the type of data contains the constant value 'SA1'. | ŭ |
| Processing outgoing EDI Sub-System | | |
| ERP LN | | |
| Processing Incoming EDI Sub-System | This field will be filled with the con | stant value 'SA1'. |
| ERP LN | None | |

| Position 2 | Field Format an14 | Field Status | М | | |
|---------------------------------------|--|---|----------------|--|--|
| Field Name | Message Reference | Key field In | | | |
| Description | Information. The numbering, we Information, helps to control the Information and the complete the with four characters, the current number with four characters. The special format will be defined the LN table ecedio 20. When generally sub-System, the created messes | The special format will be defined in the network parameters in the ERP LN table ecedio20. When generating the message reference with the EDI Sub-System, the created message reference needs to be specific, which means unique. While storing the message reference ERP LN controls | | | |
| Processing outgoing EDI Sub-System | | | | | |
| ERP LN | | | | | |
| Processing Incoming EDI Sub-System | The EDI Sub-System generate it into all data records of an FM | es this number to identify an ord | der and writes | | |
| ERP LN | Mapping to ERP LN table field | ecedi702.bano. | | | |

| Position 3 | Field Format an17 | Field Status M |
|---------------------------------------|--|---|
| Field Name | Net ID of sender | Key field In |
| Description | This field contains the identificati Number) | ion of the sender (for example the ILN |
| Processing outgoing EDI Sub-System | Transmission of the value from th | ne message file. |
| ERP LN | | |
| Processing Incoming EDI Sub-System | | |
| ERP LN | | determines the corresponding business ork in the table ecedi028 'Relations by apped to the ERP LN table field |

| Position 4 | Field Format | an9 | Field Status | М |
|------------------------------------|--------------------------------------|----------------|------------------------------------|----------------|
| Field Name | Load Number | | Key field In | |
| Description | This field contains | the Load Numb | er referring to the informa | ation message. |
| Processing outgoing EDI Sub-System | | | | |
| ERP LN | | | | |
| Processing Incoming EDI Sub-System | Transmission of the | value from the | transmission file. | |
| ERP LN | Mapping to ERP LI the customer purch | | edi702.msno. This field sh ber. | nould contain |

| Position 5 | Field Format | an9 | Field Status | М |
|------------------------------------|-------------------------|-------------------|---------------------------|---|
| Field Name | <u>Shipment</u> | | Key field In | |
| Description | This field contains the | e Shipment num | ber assigned to the Load. | |
| Processing outgoing EDI Sub-System | | | | |
| ERP LN | | | | |
| Processing Incoming EDI Sub-System | Transmission of the v | alue from the me | essage file. | |
| ERP LN | Mapping to ERP LN to | able field fmlbd4 | 50shpm | |

| Position 8 | Field Format | n4 | Field Status | М |
|------------------------------------|-----------------------|-------------------|--------------|---|
| Field Name | Shipment Line Nun | <u>ıber</u> | | |
| Description | This field contains S | hipment Line nu | mber. | |
| Processing outgoing EDI Sub-System | | | | |
| ERP LN | | | | |
| Processing Incoming EDI Sub-System | Transmission of the v | alue from the m | essage file. | |
| ERP LN | Mapping to ERP LN t | able field fmlbd4 | 150.pono | |

| Position 10 | Field Format | an7 | Field Status | M |
|------------------------------------|--|-------------------|---------------------------|-----------------|
| Field Name | Data Record end | <u>sign</u> | | |
| Description | This field identifies the constant value | | ecord in the message bloc | ck. It contains |
| Processing outgoing EDI Sub-System | | | | |
| ERP LN | | | | |
| Processing Incoming EDI Sub-System | This field will be fille | ed with the const | ant value 'SA8_END'. | |
| ERP LN | None | | | |

Chapter 3 Definitions, Acronyms, and Abbreviations

| Term | Description |
|----------|--|
| ANSI X12 | American National Standards Institute Accredited Standards Committee X12; Standard definitions of American EDI Directories |
| ASCII | American Standard Code for Information Interchange |
| ASN | Advanced Shipment Notification |
| ВЕМ | Baan Electronic Message - abbreviated form of BEMIS used with the definition of the EDI organization |
| BEMIS | "BAAN Electronic Message Interchange System"; it is used for the ERP LN In-house EDI format |
| BP | Business Partner; used for Customer and Supplier |
| CUM | Cumulated Quantity |
| EDI | Electronic Data Interchange; electronic exchange of documents in standard formats |
| EDIFACT | Electronic Data Interchange for Administration, Commerce and Transport; Standard definitions of United Nations Directories |
| GLN | Global Location Number, a thirteen digit number used to identify legal entities, trading parties and locations. |
| ID | Identification |
| ILN | International Location Number; see GLN |
| VDA | The German Association of the Automotive Industry; Standard definitions of German EDI Directories |

Appendix A Sample File

Example incoming message

"SA1";"AUSYD2008073000000000000000000000000000000;"etc002";"LOF000407";;"BEMIS";"FMS001";;;20080807130500;; ;"SA1_END"

 $"SA2"; "AUSYD200807300000000000000030"; "etc002"; "LOF000407"; "VDT";; "SA2_END"$

"SA8";"AUSYD200807300000000000000030";"etc002";"LOF000407";"SHF000376";;;10;;"SA8_END"

"SA8";"AUSYD2008073000000000000000000000000000000";"etc002";"LOF000407";"SHF000376";;;20;;"SA8_END"