Definition of BEMIS SBI001 Import and Export File for Business Document Type Self-Billed Invoice

INFOR™

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About this Guide

Objective

This document describes the content and the corresponding structure of the EDI message "Self-Billed Invoice", 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:

- EDIFACT   INVOIC
- ANSI X12   810
- VDA 4908

The message structure is defined by referring to incoming directions.

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 Self-Billed Invoice.

Chapter 2, "Data Record Description by Kind of Data Record", describes in detail the data records used for the EDI in-house format of EDI message Self-Billed Invoice.

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 SBI001.

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 in-house format.

References

The following documents might be of importance:

No.	Document number	Title
1	U8912A US	*User's Guide for BEMIS*
2	U8998A US	*User's Guide for EDI Business Documents*

Send us your comments

We continually review and improve our documentation. Any remarks/requests for information concerning this document or topic are appreciated. Please e-mail your comments to documentation@infor.com.

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

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Available types of data records

This section describes the EDI in-house format for the Business Document type Self-Billed Invoice (incoming). When you transmit information about Self-Billed Invoices, 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**	**Self-Billed Invoice Header**
SA3	**M**	**Self-Billed Invoice Lines**

Branching diagrams

The following data record structure is used for the BEMIS message type Self-Billed Invoice:

Level

0	**SA1**	
	M	1

1	**SA2**	
	M	1

2	**SA3**	
	M	R
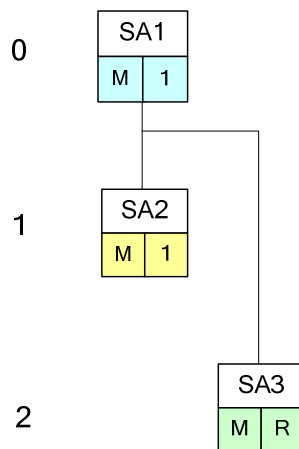
Legend:

Status:	Frequency:
M: mandatory in message	1: once by message
C: conditional in message	R: repeatable by message

For example, for two required Self-Billed Invoices with each two lines the BEMIS file has the following structure:

SA1 ... Global Overhead

SA2 ... SBI Header 1

SA3 ... SBI Lines 11

SA3 … SBI Lines 12

SA1 ... Global Overhead

SA2 ... SBI Header 2

SA3 ... SBI Lines 21

SA3 … SBI Lines 22

Key fields incoming

The incoming message refers to the Sold-to-BP and the Sales Schedule Releases. The following structure of the key fields is used to determine the corresponding data records of a Self-Billed Invoice message:

Sorted by Key Kind Data Rec. field 1	Related Level	key 1	key 2	key 3
SA1		Message ref.	BP net ID	
SA2	1	Message ref.	BP net ID	
SA3	2	Message ref.	BP net ID	Customer Invoice Reference

Business partner relations

The following table shows the business partner relations:

Incoming Self-Billed Invoice	
Invoice-to BP Code	cisli500.itbp

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 schedules, 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/schedule/

ERP LN will additionally create the following subdirectories:

- /${BSE}/edi/bemis/schedule/appl_from/

- /${BSE}/edi/bemis/schedule/appl_to/

- /${BSE}/edi/bemis/schedule/command/

- /${BSE}/edi/bemis/schedule/store_recv/

- /${BSE}/edi/bemis/schedule/store_sent/

- /${BSE}/edi/bemis/schedule/trace/

The above mentioned directories refer to the message type of schedule as "Self-Billed Invoice". The directories have the following functions:

- **.../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 Self-Billed Invoice, which is being described in this documentation, is defined in the following way:

Direction	File Name	Network Directory
incoming	SBI001	/${BSE}/edi/bemis/schedule/appl_to

ERP LN BEMIS messages – conventions

Written in the User's Guide for BEMIS [1], we use the following 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:

SCHEDULE IN-HOUSE 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 characters

n..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 IV?

The BaanIVc4 Self-Billed Invoice message offers in addition the handling of SBI surcharges (level 4).

Chapter 2
Data Record Description by Type of Data Record

<div style="text-align: right">2</div>

SA1 Message Overhead

Status: Mandatory

Frequency: Once by Release

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.

SBI 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	Kind of data record	I	M	an3			SA1	
2	Message Reference	I	M	an..35			ecedi702.bano	Generation by EDI Sub-System
3	Net ID of Sender	I	M	an..17			ecedi702.bpid	Conversion (see below)
4	Net ID of Receiver		M	an..17				

Pos	Field Description	Key	ST	FM	Table field	Action	Table field	Action
5	Message		M	an..6			ecedi702.mess	Conversion (see below)
6	Organization		M	an..6			ecedi702.orga	Conversion (see below)
7	Order type		M	an..35			ecedi702.koor	
8	Transmission reference		M	an..20			ecedi702.msno	
9	Date / Time of transmission		M	n..14			ecedi702.send	
10	Transmission Reference old		C	an..20			ecedi702.prno	
11								
12	Identifier of Test		C	an1			ecedi702.test	
13	Data record end sign		M	an7			SA1_END	

Detailed description: Self-Billed Invoice

Kind of data record: SA1 Message Overhead

Position	1	Field Format	an3	Field Status	M
Field Name		**<u>Kind of Data Record</u>**		Key field IN	

Description	This field identifies the kind of data record in the message block. It contains the constant value 'SA1'.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	This field will be filled with the constant value 'SA1'.
ERP LN	None

Position	2	Field Format	an..14	Field Status	M
Field Name		**<u>Message Reference</u>**		Key field IN	

Description	This field identifies all connected data records of one Self-Billed Invoice. The numbering, which has to be clear by SBI, helps to control the chronological order of the SBI 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 whether it is specific.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	The EDI Sub-System generates this number to identify a Self-Billed Invoice and writes it into all data records of a SBI.
ERP LN	Mapping to ERP LN table field ecedi702.bano.

Position	3	Field Format	an..17	Field Status	M
Field Name		**Net ID of sender**		**Key field In**	

Description	This field contains the identification of the sender (for example the ILN Number)
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	
ERP LN	The identification of the sender determines the corresponding business partner (customer) and the network in the table ecedi028 'Relations by network'. This identification is mapped to the ERP LN table field ecedi702.bpid.

Position	4	Field Format	an..17	Field Status	M
Field Name		**Net ID of Receiver**			

Description	This field contains the identification of receiver.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file.
ERP LN	On the incoming side this field will be 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 for the message type 'Self-Billed Invoice' is SBI001.
Processing outgoing EDI Sub-System	.
ERP LN	
Processing Incoming EDI Sub-System	This field will be filled with the constant value 'SBI001'.
ERP LN	The message code in the table ecedi001 'Supported EDI Messages' determines which internal message in ERP LN is connected to this SBI. In the ERP LN table ecedi005 'EDI Messages' is determined for every message which session (DLL) is used in ERP LN to process the message. The message code is mapped to the ERP LN table field ecedi702.mess.

Position	6	Field Format	an..6	Field Status	M
Field Name		**Organization**			

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	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 Sub-System

ERP LN

Processing Incoming
EDI Sub-System

ERP LN   Mapping to ERP LN table field ecedi702.koor. In the ERP LN table
                                     ecedi200 there must be an entry for this order type in connection with the
                                     respective message and organization.

Position	8	Field Format	an..20	Field Status	M
Field Name		**Transmission Reference**			

Description   This field contains the reference code which the EDI Sub-System applied
                                     to this transmission.

Processing outgoing
EDI Sub-System

ERP LN

Processing Incoming
EDI Sub-System

ERP LN   Mapping to ERP LN table field ecedi702.msno.

Position	9	Field Format	n..14	Field Status	M
Field Name		**Date / Time of Transmission**			

Description	This field contains on the outgoing side the current date / time, on which the SBI message was created. On the incoming side, this field contains the arrival date / time of the message at the EDI Sub-System (format: YYYYMMDDHHMMSS).
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Entry of the arrival date / time of the message at the EDI Sub-System.
ERP LN	Mapping to ERP LN table field ecedi702.send

Position	10	Field Format	an..20	Field Status	C
Field Name		**Transmission Reference Old**			

Description	This field contains the reference number, which the EDI Sub-System applied to the previous transmission.
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.prno.

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	13	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 'SA1_END'.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	This field will be filled with the constant value 'SA1_END'.
ERP LN	None

SA2 Self-Billed Invoice Header

Status: Mandatory

Frequency: Once by Release

Description: This data record contains all information of the Self-Billed Invoice
                     Header, and it is related to SA1.

Pos	Field Description	Key	ST	FM	Table field	Action	Table field	Action
	SBI In-house Format				Mapping from Application Table Fields (out)		Mapping to Application Table Fields (in)	
1	Kind of data record	I	M	an3			SA2	
2	Message Reference	I	M	an..35			ecedi702.bano	Generation by EDI Sub-System
3	(Net) ID of Sender	I	M	an..17			ecedi702.bpid	Conversion (see below)
4	Customer Invoice Reference		M	an..30			cisli500.cirf	
5	Qualifier		M	an..6			ZZ	
6	Qualifier		M	an..6			ITBP	
7	Invoice-to Business Partner		M	an..9			cisli500.itbp	Code and Conversion
8	Customer Company Name		C	an..30			cisli500.ccnm	
9	Customer Company Location		C	an..30			cisli500.cclc	
10	Qualifier Currency		M	an..6			ZZ	
11	Currency		M	an..6			cisli500.cccur	Code and Conversion
12	Customer Invoice Date		C	n..14			cisli500.cidt	

SBI 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
13	Customer Tax Number		C	an..35			cisli500.fovc	
14	Supplier Tax Number		C	an..35			cisli500.fovn	
15	Customer Order		C	an..30			cisli500.corn	
16								
17	Payment Method		C	an..6			cisli500.paym	
18	Qualifier Payment Terms		C	an..6			ZZ	
19	Payment Term		C	an..6			cisli500.cpay	Code and Conversion
20	Data Record End Sign	I	M	an..7			SA2_END	

Detailed description: Self-Billed Invoice

Kind of data record: SA2 Self-Billed Invoice Header

Position	1	Field Format	an3	Field Status	M
Field Name		**Kind of Data Record**		**Key field IN**	

Description	This field identifies the kind of data record in the message block. It contains the constant value 'SA2'.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	This field will be filled with the constant value 'SA2'.
ERP LN	None

Position	2	Field Format	an..35	Field Status	M
Field Name		**Message Reference**		**Key field IN**	

Description	This field identifies all connected data records of one Self-Billed Invoice Release. The numbering, which has to be clear by SBI, helps to control the chronological order of the SBI and the complete transmission.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	The EDI Sub-System generates this number to identify a Self-Billed Invoice Release and writes it into all data records of a SBI.
ERP LN	Mapping to ERP LN table field ecedi702.bano.

Position	3	Field Format	an..17	Field Status	M
Field Name		**(Net) ID of sender**		Key field In	

Description	This field contains the identification of the sender (for example the ILN Number)
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	
ERP LN	The identification of the sender determines the corresponding business partner (customer) and the network in the table ecedi028 'Relations by network'. This identification is mapped to the ERP LN table field ecedi702.bpid.

Position	4	Field Format	an..30	Field Status	M
Field Name		**Customer Invoice Reference**			

Description	This field contains the Customer Invoice Reference of the related Self-Billed Invoice.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file.
ERP LN	Mapping to ERP LN table field cisli500.cirf, the Customer Invoice Reference.

Position	5	Field Format	an..6	Field Status	M
Field Name		**Qualifier**			

Description	This position contains the qualifier to identify the Business Partner.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file.
ERP LN	Field can be used as qualifier 1 on field cisli500.itbp.

Position	6	Field Format	an..6	Field Status	M
Field Name		**Qualifier**			

Description	This position contains the standard qualifier 2 for the Invoice-to Business Partner.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file.
ERP LN	Use the code "ITBP" to identify the Invoice-to Business Partner.

Position	7	Field Format	an..9	Field Status	M
Field Name		**Invoice-to-BP**			

Description	This position contains the code of the Business Partner, which sends the Self-Billed Invoice.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file.
ERP LN	The Code for the Invoice-To-Business Partner has to convert using the conversion table ecedi363 and Address Code ID given in ecedi224 = "ZZ", and it has to map to the ERP LN table field cisli500.itbp.

Position	8	Field Format	an..30	Field Status	C
Field Name		**Customer Company Name**			

Description	This field contains the name of the Customer Company.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file.
ERP LN	Mapping to ERP LN table field cisli500.ccnm, the customer company name.

Position	9	Field Format	an..30	Field Status	C
Field Name		**Customer Company Location**			

Description — This field contains the location of the Customer Company.

Processing outgoing
EDI Sub-System

ERP LN

Processing Incoming
EDI Sub-System — Transmission of the value from the message file.

ERP LN — Mapping to ERP LN table field cisli500.cclc, the customer company location.

Position	10	Field Format	an..6	Field Status	M
Field Name		**Qualifier Currency**			

Description — This position contains the qualifier for the Currency.

Processing outgoing
EDI Sub-System

ERP LN

Processing Incoming
EDI Sub-System — Transmission of the value from the message file.

ERP LN — Field can be used as qualifier 1 on field cisli500.ccur.

Position	11	Field Format	an..6	Field Status	M
Field Name		**Currency**			

Description	This field contains the Currency.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file.
ERP LN	Mapping to the ERP LN table field cisli500.ccur and conversion with ERP LN table ecedi324, depending on the qualifier in position 10.

Position	12	Field Format	n..14	Field Status	C
Field Name		**Customer Invoice Date**			

Description	This field contains the customer invoice date
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file
ERP LN	Mapping to the ERP LN table field cisli500.cidt.

Position	13	Field Format	an..35	Field Status	C

Field Name		**Customer Tax Number**			

Description   This field contains the Customer Tax Number.

Processing outgoing
EDI Sub-System

ERP LN

Processing Incoming   Transmission of the value from the message file.
EDI Sub-System

ERP LN   Mapping to the ERP LN table field cisli500.fovc, the customer tax number.

Position	14	Field Format	an..35	Field Status	C

Field Name		**Supplier Tax Number**			

Description   This field contains the Supplier Tax Number.

Processing outgoing
EDI Sub-System

ERP LN

Processing Incoming   Transmission of the value from the message file.
EDI Sub-System

ERP LN   Mapping to the ERP LN table field cisli500.fovn, the supplier tax number.

Position	15	Field Format	an..30	Field Status	C
Field Name		**Customer Order**			

Description	This field contains the Customer Order Number.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file.
ERP LN	Mapping to the ERP LN table field cisli500.corn.

Position	17	Field Format	an..6	Field Status	C
Field Name		**Payment Method**			

Description	This field contains the Payment Method.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file.
ERP LN	Mapping to the ERP LN table field cisli500.paym.

Position	18	Field Format	an..6	Field Status	C
Field Name		**Qualifier Payment Term**			

Description	This position contains the qualifier for the Terms of Payment.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file.
ERP LN	Field can be used as qualifier 1 on field cisli500.cpay.

Position	19	Field Format	an..6	Field Status	C
Field Name		**Payment Term**			

Description	This field contains a code for the Terms of Payment agreed upon with the relation.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file.
ERP LN	Mapping to the ERP LN table field cisli500.cpay and conversion via ERP LN table ecedi326.

Position	20	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 'SA2_END'.

Processing outgoing
EDI Sub-System

ERP LN

Processing Incoming
EDI Sub-System

This field will be filled with the constant value 'SA2_END'.

ERP LN

None

SA3 Self-Billed Invoice Lines

Status: Mandatory

Frequency: Multiple by Self-Billed Invoice

Description: This data record contains all information of the Self-Billed Invoice Lines, and it is related to SA2.

SBI 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	Kind of data record	I	M	an..3			SA3	
2	Message Reference	I	M	an..35			ecedi702.bano	Generation by EDI Sub-System
3	(Net) ID of Sender	I	M	an..17			ecedi702.bpid	Conversion (see below)
4	Customer Invoice Reference	I	M	an..30			cisli500.cirf	
5	Source Logistic Company		C	n..3			cisli505.slcp	
6	Shipment		C	an..9			cisli505.shpm	
7	Shipment Line		C	n..3			cisli505.shln	Conversion
8	Sales Order / Sales Schedule		C	an..9			cisli505.slso	
9	Qualifier Item Code		C	an..6			ZZ	
10	Item Code		C	an..47			cisli505.item	Conversion
11	Delivered Quantity		C	n..15			cisli505.dqua	
12	Qualifier Unit		M	an..6			ZZ	
13	Unit Delivered Quantity		M	an..3			cisli505.cuns	Code and Conversion

SBI 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
14	Price (excl VAT)		C	n..15			cisli505.pric	
15	Qualifier Price Unit		M	an..6			ZZ	
16	Price Unit		M	an..3			cisli505.cups	Conversion
17	Price Validation Date		C	n..14			cisli505.pvdt	
18	Amount (including VAT)		C	n..15			cisli505.amnt	
19	Qualifier Country		M	an..6			ZZ	
20	Country		M	an..3			cisli505.ccty	Conversion
21	Qualifier Tax Code		C	an..6			ZZ	
22	Tax Code		C	an..10			cisli505.cvat	Code and Conversion
23	Tax Amount		C	n..15			cisli505.txai	
24	Discount Percentage		C	an..4			cisli505.disp	
25	Discount Amount Invoice Currency		C	n..15			cisli505.damt	
26	Shipment Reference		C	an..35			cisli505.refs	
27	Qualifier		C	an..6			ZZ	
28	Ship-to Address		C	an..9			cisli505.stoa	Conversion
29	Qualifier		C	an..6			ZZ	
30	Delivery Point		C	an..9			cisli505.dlpt	Conversion
31	Data Record End Sign	I	M	an..7			SA3_END	

<table>
</table>

Detailed description: Self-Billed Invoice

Kind of data record: SA3 Self-Billed Invoice Lines

Position	1	Field Format	an..3	Field Status	M
Field Name		**Kind of Data Record**		**Key field IN**	

Description	This field identifies the kind of data record in the message block. It contains the constant value 'SA3'.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	This field will be filled with the constant value 'SA3'.
ERP LN	None

Position	2	Field Format	an..35	Field Status	M
Field Name		**Message Reference**		**Key field IN**	

Description	This field identifies all connected data records of one Self-Billed Invoice release. The numbering, which has to be clear by SBI, helps to control the chronological order of the SBI and the complete transmission.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	
ERP LN	Analogously to data record SA2

Position	3	Field Format	an..17	Field Status	M
Field Name		**(Net) ID of sender**		**Key field IN**	

Description	This field contains the identification of the sender (for example the ILN Number)
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	
ERP LN	Analogously to data record SA2

Position	4	Field Format	an..30	Field Status	M
Field Name		**Customer Invoice Reference**		**Key field IN**	

Description	This field contains the Invoice identifier used by the customer.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file.
ERP LN	Mapping to ERP LN table field cisli500.cirf, the Customer Invoice Reference.

Position	5	Field Format	n..3	Field Status	C
Field Name		**Source Logistic Company**			

Description	This field contains the Logistic Company where the sales order or the sales schedule is initiated.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file.
ERP LN	Mapping to the ERP LN table field cisli505.slcp.

Position	6	Field Format	an..9	Field Status	C
Field Name		**Shipment**			

Description	This field contains the Shipment Number and can be used as matching criteria for the "match SBI" process.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file.
ERP LN	Mapping to the ERP LN table field cisli505.shpm.

Position	7	Field Format	n..3	Field Status	C
Field Name		**Shipment Line**			

Description	This field contains the Shipment Line Number.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file.
ERP LN	Mapping to the ERP LN table field cisli505.shln.

Position	8	Field Format	an..9	Field Status	C
Field Name		**Sales Order / Sales Schedule**			

Description	This field contains the Sales Order / Sales Schedule Number.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file.
ERP LN	Mapping to the ERP LN table field cisli505.slso.

Position	9	Field Format	an..6	Field Status	C
Field Name		**Qualifier Item Code**			

Description	This field contains the qualifier for the item code. The constant value 'SA' indicates that the supplier item codes are used.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file.
ERP LN	Used as qualifier for the conversion of the Item code.

Position	10	Field Format	an..47	Field Status	C
Field Name		**Item Code**			

Description	This field contains the Item Code.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file.
ERP LN	Mapping to the ERP LN table field cisli505.item after conversion of the given qualifier.

Position	11	Field Format	n..15	Field Status	C
Field Name		**Delivered Quantity**			

Description	This field contains the quantity of items delivered.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file
ERP LN	Mapping to the ERP LN table field cisli505.dqua

Position	12	Field Format	an..6	Field Status	M
Field Name		**Qualifier Unit**			

Description	This field contains the qualifier for the unit code.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file.
ERP LN	Used as qualifier for the conversion of the unit.

Position	13	Field Format	an..3	Field Status	M
Field Name		**Unit Delivered Quantity**			

Description	This field identifies the unit in which the quantity is expressed.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file.
ERP LN	Mapping to the ERP LN table field cisli505.cuns after conversion of the given qualifier.

Position	14	Field Format	n..15	Field Status	C
Field Name		**Price (excl VAT)**			

Description	This field identifies the price of the item, excluding VAT and discount.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file.
ERP LN	Mapping to the ERP LN table field cisli505.pric

Position	15	Field Format	an..6	Field Status	M
Field Name		**Qualifier Price Unit**			

Description	This field contains the qualifier for the price unit.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file.
ERP LN	Used as qualifier for the conversion of the price unit.

Position	16	Field Format	an..3	Field Status	M
Field Name		**Price Unit**			

Description	This field identifies the unit for the order price
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file.
ERP LN	Mapping to the ERP LN table field cisli505.cups after conversion of the given qualifier.

Position	17	Field Format	n..14	Field Status	C
Field Name		**Price Validation Date**			

Description	This field includes the price validation date
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file.
ERP LN	Mapping to the ERP LN table field cisli505.pvdt

Position	18	Field Format	n..15	Field Status	C
Field Name		**Amount (including VAT)**			

Description	This field contains the total invoice amount including VAT.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file
ERP LN	Mapping to the ERP LN table field cisli505.amnt

Position	19	Field Format	an..6	Field Status	M
Field Name		**Qualifier Country**			

Description	This field contains the qualifier for country.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file.
ERP LN	Used as qualifier for the conversion of the country.

Position	20	Field Format	an..3	Field Status	M
Field Name		**Country**			

Description	This field contains the tax country code of the Business Partner.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file.
ERP LN	Mapping to the ERP LN table field cisli505.ccty after conversion with ERP LN table ecedi328.

Position	21	Field Format	an..6	Field Status	C
Field Name		**Qualifier Tax Code**			

Description   This field contains the qualifier for the tax code.

Processing outgoing
EDI Sub-System

ERP LN

Processing Incoming
EDI Sub-System   Transmission of the value from the message file.

ERP LN   Used as qualifier for the conversion of the tax code.

Position	22	Field Format	an..10	Field Status	C
Field Name		**Tax Code**			

Description   This field contains the code that identifies the tax rate and which
                                      determines how ERP LN calculates and registers tax amounts.

Processing outgoing
EDI Sub-System

ERP LN

Processing Incoming
EDI Sub-System   Transmission of the value from the message file.

ERP LN   Mapping to the ERP LN table field cisli505.cvat after conversion via table
                                      ecedi308.

Position	23	Field Format	n..15	Field Status	C
Field Name		**Tax Amount**			

Description	This field contains the invoice line tax amount in the invoice currency.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file
ERP LN	Mapping to the ERP LN table field cisli505.txai.

Position	24	Field Format	an..4	Field Status	C
Field Name		**Discount Percentage**			

Description	This field contains the percentage that you can subtract from the gross sales price.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file
ERP LN	Mapping to the ERP LN table field cisli505.disp.

Position	25	Field Format	n..15	Field Status	C
Field Name		**Discount Amount Invoice Currency**			

Description · This field contains the absolute discount amount, excluding VAT.

Processing outgoing
EDI Sub-System

ERP LN

Processing Incoming
EDI Sub-System · Transmission of the value from the message file

ERP LN · Mapping to the ERP LN table field cisli505.damt.

Position	26	Field Format	an..35	Field Status	C
Field Name		**Shipment reference**			

Description · This field contains the Shipment Reference.

Processing outgoing
EDI Sub-System

ERP LN

Processing Incoming
EDI Sub-System · Transmission of the value from the message file

ERP LN · Mapping to the ERP LN table field cisli505.refs.

Position	27	Field Format	an..6	Field Status	C
Field Name		**Qualifier Address Code**			

Description	This position is used to store the default qualifier 1for the Address code which is defined in the message definition. It can be used to identify the sender, ship-to warehouse and ship-to address.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	
ERP LN	This field will be filled with the constant value "ZZ". The field can be used as (first) qualifier on field cisli505.stoa.

Position	28	Field Format	an..9	Field Status	C
Field Name		**Ship-to Address**			

Description	This field contains the ship-to address code referring to the warehouse which expects the good's receipt.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file.
ERP LN	Mapping to the ERP LN table field cisli505.stoa after conversion via table ecedi363.

Position	29	Field Format	an..6	Field Status	C
Field Name		**Qualifier Delivery Point**			

Description	This field contains the qualifier which identifies the Delivery Point of position 30.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file.
ERP LN	Used as qualifier for the conversion of the delivery point.

Position	30	Field Format	an..9	Field Status	C
Field Name		**Delivery Point**			

Description	This field contains the delivery point, which is a address specification within a delivery address. For example, a warehouse docks location.
Processing outgoing EDI Sub-System	
ERP LN	
Processing Incoming EDI Sub-System	Transmission of the value from the message file
ERP LN	Mapping to the ERP LN table field cisli505.dlpt after conversion via table ecedi366.

Position	31	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 'SA3_END'.

Processing outgoing
EDI Sub-System

ERP LN

Processing Incoming
EDI Sub-System

This field will be filled with the constant value 'SA3_END'.

ERP LN

None

Chapter 3
Definitions, Acronyms, and Abbreviations

3

Term	Description
ANSI X12	American National Standards Institute Accredited Standards Committee X12; Standard definitions of American EDI Directories
BEM	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
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
SBI	Self-Billed Invoice
VDA	The German Association of the Automotive Industry; Standard definitions of German EDI Directories

Appendix A
Sample File

Example Incoming message

"SA1"|"c18020100521053918000000000000003992"|"mjzc550"|"mjzc550"|"SBI001"|"BEMIS"|""|"PSR0025
20"|20100521053919|||"BEMTST"||"SA1_END"

"SA2"|"c18020100521053918000000000000003992"|"mjzc550"|"CIRF000002496"|"ZZ"|"ITBP"|"MJZ"|"Co
mp. name 1"|"Comp. loc. 1"|"ZZ"|"EUR"|"20100603000000"|"FOVC1"|"FOVN1"|"cust order
number"|""|""|"ZZ"|""|||"SA2_END"

"SA3"|"c18020100521053918000000000000003992"|"mjzc550"|"CIRF000002496"|""|"SHIPMENT1"|10|"O
RDER1"|"ZZ"|"MJZITEM"|3|"ZZ"|"pcs"|33|"ZZ"|"pcs"|"20100603000000"|99|"ZZ"|"NLD"|ZZ"|"001"|5|0|0|"s
hipment ref1"|"ZZ"|"000000001"|"ZZ"|"DELP1"|"SA3_END"

"SA3"|"c18020100521053918000000000000003992"|"mjzc550"|"CIRF000002496"|""|"SHIPMENT2"|10|"O
RDER2"|"ZZ"|"MJZITEM"|3|"ZZ"|"pcs"|11|"ZZ"|"pcs"|"20100603000000"|33|"ZZ"|"NLD"|ZZ"|"001"|5|0|0|"s
hipment ref2"|"ZZ"|"000000001"|"ZZ"|"DELP1"|"SA3_END"

"SA1"|"c18020100521053918000000000000003993"|"mjzc550"|"mjzc550"|"SBI001"|"BEMIS"|""|"PSR0025
21"|20100521053919|||"BEMTST"||"SA1_END"

"SA2"|"c18020100521053918000000000000003993"|"mjzc550"|"CIRF000002497"|"ZZ"|"ITBP"|"MJZ"|"Co
mp. name 2"|"Comp. loc. 2"|"ZZ"|"EUR"|"20100603000000"|"FOVC1"|"FOVN1"|"cust order
number"|""|""|"ZZ"|""|||"SA2_END"

"SA3"|"c18020100521053918000000000000003993"|"mjzc550"|"CIRF000002497"|""|"SHIPMENT1"|10|"O
RDER3"|"ZZ"|"MJZITEM"|3|"ZZ"|"pcs"|22|"ZZ"|"pcs"|"20100603000000"|66|"ZZ"|"NLD"|ZZ"|"001"|5|0|0|"s
hipment ref3"|"ZZ"|"000000001"|"ZZ"|"DELP1"|"SA3_END"

"SA3"|"c1802010052105391800000000000003993"|"mjzc550"|"CIRF000002497"|""|"SHIPMENT2"|10|"ORDER4"|"ZZ"|"MJZITEM"|3|"ZZ"|"pcs"|44|"ZZ"|"pcs"|"20100603000000"|132|"ZZ"|"NLD"|ZZ"|"001"|5|0|0|"shipment ref4"|"ZZ"|"000000001"|"ZZ"|"DELP1"|"SA3_END"