# Definition of BEMIS ERN001 Import and Export File for Business Document Error Notification

be enterprising

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# Table of Contents

# About this Guide

## Objective

This document describes the content and the corresponding structure of the EDI message “Error Notification”, 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 APERAK
- ANSI X12 824

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 Error Notification.

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 Error Notification.

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 outgoing message ERN001.

## 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* |

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# Chapter 1
# General Principles

1

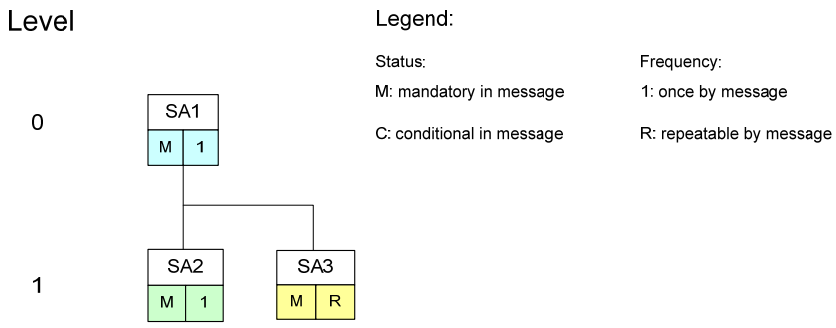
## Available types of data records

This section describes the EDI In-house format for the Business Document type Error Notification (incoming/outgoing). When you transmit information about errors, 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** | **Error Header** |
| **SA3** | **M** | **Line Details** |

# Branching diagrams

The following data record structure is used for the BEMIS message type Error Notification.




For example, for an error message with three lines the BEMIS file has the following structure:

SA1 ... Global Overhead

SA2 ... Error Header

SA3 ... Line 1 Detail

SA3 ... Line 2 Detail

SA3 … Line 3 Detail

## Key fields outgoing

The outgoing message refers to the sender and the receipt original message.
The following structure of the key fields is used to determine the corresponding data records of an Error Notification message:

| **Sorted by Key** | | | | | |
|---|---|---|---|---|---|
| **Type Data 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 | Message | Order Reference |
| SA3 | 2 | Message ref. | BP net ID | Message | Order Reference |

## Key fields incoming

The incoming message refers to the receiver and the sent message. The following structure of the key fields is used to determine the corresponding data records of an Error Notification message:

| **Sorted by Key** | | | | | |
|---|---|---|---|---|---|
| **Type Data 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 | Message | Order Reference |
| SA3 | 2 | Message ref. | BP net ID | Message | Order Reference |

## Business Partner Relations

| **Outgoing Error Notification** | | **Incoming Error Notification** | |
|---|---|---|---|
| ID of the sender | ecedi020.neta | Sold -to BP-Code | ecedi702.bpid |

# 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.
- 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 first possibility.

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

- /${BSE}/edi/bemis/notification/

ERP LN will additionally create the following subdirectories:

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

The above mentioned directories refer to one message type, "error notification". 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 error notification, which is being described in this documentation, is defined in the following way:

| Direction | File Name | Network Directory |
|---|---|---|
| Outgoing | ERN001.txt | /${BSE}/edi/bemis/notification/appl_from |
| Incoming | ERN001.txt | /${BSE}/edi/bemis/notification/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:

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<br>an..14 = alphanumerical field with a maximum of 14 characters<br>an14 = alphanumerical field with exactly 14 characters<br>n..10 = numerical field with a maximum of 10 characters<br>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 Error Notification is a new message in ERP LN 6.1. Infor has not an equivalent message of previous releases.

# Chapter 2
# Data Record Description by Type of Data Record

2

## SA1 Message Overhead

Status: Mandatory

Frequency: Once by Error Notification

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.

| Error Notification 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 | O/I | M | an3 | SA1 | | SA1 | |
| 2 | Message Reference | O/I | M | an..35 | ecedi701.bano | Generation (see below) | ecedi702.bano | Generation by EDI Sub-System |
| 3 | Net ID of Sender | O/I | M | an..17 | ecedi020.neta | Conversion (see below) | ecedi702.bpid | Conversion (see below) |

| Error Notification In-house Format | | | | Mapping from Application Table Fields (out) | | Mapping to Application Table Fields (in) | |
|---|---|---|---|---|---|---|---|
| 4 | Message | M | an..6 | ecedi001.code | Conversion (see below) | ecedi702.mess | Conversion (see below) |
| 5 | (Transmission) Order Reference | M | an..17 | ecedi750.eono | | ecedi702.msno | |
| 6 | Net ID of Receiver | M | an..20 | ecedi028.neta | Conversion (see below) | empty | |
| 7 | Organization | M | an..6 | ecedi003.code | Conversion (see below) | ecedi702.orga | Conversion (see below) |
| 8 | EDI Message | M | | ecedi750.mess | | | |
| 9 | Order Type | M | an..35 | ecedi011.koor | Conversion (see below) | ecedi702.koor | Conversion (see below) |
| 10 | Identifier of Test | C | an1 | ecedi003.test | | ecedi702.test | |
| 11 | Date / Time of transmission | M | n..14 | current date / time | | ecedi702.send | |
| 12 | Data record end sign | M | an7 | SA1_END | | SA1_END | |

Detailed description: Error Notification

Type of data record: SA1 Overhead

| Position | 1 | Field Format | an3 | Field Status | M |
|---|---|---|---|---|---|
| **Field Name** | | **Type of Data Record** | | **Key field Out / IN** | |

| | |
|---|---|
| Description | This field identifies the type of data record in the message block. It contains the constant value ‘SA1’. |
| Processing outgoing EDI Sub-System | |
| ERP LN | This field will be filled with the constant value ‘SA1’. |
| 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** | | **Message Reference** | | **Key field Out / IN** | |

| | |
|---|---|
| Description | This field identifies all connected data records of one notification. The numbering, which has to be clear by notification, helps to control the chronological order of the messages 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.<br><br>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 | ERP LN generates this number to identify an Error Notification, stores it in the ERP LN table field ecedi701.bano and writes it into all data records of an order. |
| 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 Error Notification. |
| 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 Out / In** | |

| | |
|---|---|
| Description | This field contains the identification of the sender (for example the ILN Number) |
| Processing outgoing EDI Sub-System | Transmission of the value from the message file. |
| ERP LN | The identification is stored in the ERP LN table ecedi020 'Our Identification' under the corresponding network in the ERP LN table field ecedi020.neta. The content of this field is mapped to the position of the transmission file. Here you can store the general ILN-Number for your customer. |
| 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..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 'Error Notification' is ERN001. |
| Processing outgoing EDI Sub-System | . |
| ERP LN | The internal message code ecedi001.code 'ERN001' of the ERP LN table ecedi001 'Supported EDI messages' is mapped to this position. |
| Processing Incoming EDI Sub-System | This field will be filled with the constant value 'ERN001'. |
| ERP LN | The message code in the table ecedi001 'Supported EDI Messages' determines which internal message in ERP LN is connected to this notification. In the ERP LN table ecedi005 'EDI Messages' is determined for every message which session (DLL) is used in ERP LN to process the Error Notification. The message code is mapped to the ERP LN table field ecedi702.mess. |

| Position | 5 | Field Format | an..30 | Field Status | M |
|---|---|---|---|---|---|
| **Field Name** | | **Order Reference** | | | |
| Description | | This field contains the receipt order number which refers to the erroneous original message. | | | |
| Processing outgoing EDI Sub-System | | | | | |
| ERP LN | | The ELP LN table field ecedi750.eono is mapped to this position. | | | |
| Processing Incoming EDI Sub-System | | Transmission of the value from the message file. | | | |
| ERP LN | | The ERP LN table field ecedi702.msno is mapped to this position. | | | |

| Position | 6 | Field Format | an..20 | Field Status | M |
|---|---|---|---|---|---|
| **Field Name** | | **Net ID of Receiver** | | | |
| Description | | This field contains the BP's network address. | | | |
| Processing outgoing EDI Sub-System | | | | | |
| ERP LN | | The ELP LN table field ecedi028.neta is mapped to this position. | | | |
| 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 | 7 | 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 | | The internal organization code ecedi003.code 'BEMIS' from the ERP LN table ecedi003 'Organizations' is mapped to this position. | | | |
| 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 | an..6 | Field Status | M |
|---|---|---|---|---|---|
| **Field Name** | | **EDI Message** | | | |
| Description | | This field contains the name of the receipt EDI message. | | | |
| Processing outgoing EDI Sub-System | | | | | |
| ERP LN | | The ELP LN table field ecedi750.mess is mapped to this position. | | | |
| 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 | 9 | 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 | | In the ERP LN table ecedi011 there must be an entry for this order type in connection with the respective message and organization. The ERP LN table field ecedi011.koor is mapped to this position. Currently the constant empty (;"";) is used. | | | |
| 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 | 10 | 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 | | The position will be filled with the ERP LN table field ecedi003.test | | | |
| Processing Incoming EDI Sub-System | | Transmission of the value from the transmission file. | | | |
| ERP LN | | Mapping to ERP LN table field ecedi702.test. | | | |

| Position | 11 | 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 message was created. On the incoming side, this field contains the arrival date / time of the order at the EDI Sub-System (format: YYYYMMDDHHMMSS). | | | |
| Processing outgoing EDI Sub-System | | | | | |
| ERP LN | | Mapping of the current date / time to the position. | | | |
| 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 | 14 | 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 | | This field will be filled with the constant value ‘SA1_END’. | | | |
| Processing Incoming EDI Sub-System | | This field will be filled with the constant value ‘SA1_END’. | | | |
| ERP LN | | None | | | |

# SA2 Error Header

Status: Mandatory

Frequency: Once by Error Notification

Description: This data record contains all information of the error header, and it is related to SA1.

| Error Notification 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 | O/I | M | an3 | SA2 | | SA2 | |
| 2 | Message Reference | O/I | M | an..35 | ecedi701.bano | Generation (see below) | ecedi702.bano | Generation by EDI Sub-System |
| 3 | Net ID of Sender | O/I | M | an..17 | ecedi020.neta | Conversion (see below) | ecedi702.bpid | Conversion (see below) |
| 4 | Message | O/I | M | an..6 | ecedi001.code | Conversion (see below) | ecedi702.mess | Conversion (see below) |
| 5 | Order Reference | O/I | M | an..30 | ecedi750.eono | | ecedi702.msno | |
| 6 | Order Reference | | M | an..30 | ecedi750.eono | | whinh430.shpm | |
| 7 | | | | | | | | |
| 8 | EDI Message | | C | an..6 | ecedi750.mess | | | |
| 9 | Data Record End Sign | O/I | M | an7 | SA2_END | | SA2_END | |

Detailed description: Error Notification

Type of data record: SA2 Error Header

| Position | 1 | Field Format | an3 | Field Status | M |
|---|---|---|---|---|---|
| **Field Name** | | **Type of Data Record** | | **Key field Out / IN** | |
| Description | | This field identifies the type of data record in the message block. It contains the constant value 'SA2'. | | | |
| Processing outgoing EDI Sub-System | | | | | |
| ERP LN | | This field will be filled with the constant value 'SA2'. | | | |
| 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 Out / IN** | |
| Description | | This field identifies all connected data records of one message. The numbering, which has to be clear by ASN, helps to control the chronological order of the ASNs and the complete transmission. | | | |
| Processing outgoing EDI Sub-System | | | | | |
| ERP LN | | Analogously to data record SA1 | | | |
| Processing Incoming EDI Sub-System | | | | | |
| ERP LN | | Analogously to data record SA1 | | | |

| Position | 3 | Field Format | an..17 | Field Status | M |
|---|---|---|---|---|---|
| **Field Name** | | **Net ID of sender** | | **Key field Out / In** | |
| Description | | This field contains the identification of the sender (for example the ILN Number) | | | |
| Processing outgoing EDI Sub-System | | | | | |
| ERP LN | | Analogously to data record SA1 | | | |
| Processing Incoming EDI Sub-System | | | | | |
| ERP LN | | Analogously to data record SA1 | | | |

| Position | 4 | 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 ‘Error Notification’ is ERN001. | | | |
| Processing outgoing EDI Sub-System | | . | | | |
| ERP LN | | The internal message code ecedi001.code ‘ERN001’ of the ERP LN table ecedi001 ‘Supported EDI messages’ is mapped to this position. | | | |
| Processing Incoming EDI Sub-System | | This field will be filled with the constant value ‘ERN001’. | | | |
| ERP LN | | The message code in the table ecedi001 ‘Supported EDI Messages’ determines which internal message in ERP LN is connected to this notification. In the ERP LN table ecedi005 ‘EDI Messages’ is determined for every message which session (DLL) is used in ERP LN to process the Error Notification. The message code is mapped to the ERP LN table field ecedi702.mess. | | | |

| Position | 5 | Field Format | an..30 | Field Status | M |
|---|---|---|---|---|---|
| **Field Name** | | **Order Reference** | | | |
| Description | | This field contains the receipt order number which refers to the erroneous original message. | | | |
| Processing outgoing EDI Sub-System | | | | | |
| ERP LN | | The ELP LN table field ecedi750.eono is mapped to this position. | | | |
| Processing Incoming EDI Sub-System | | Transmission of the value from the message file. | | | |
| ERP LN | | The ERP LN table field ecedi702.msno is mapped to this position. | | | |

| Position | 6 | Field Format | an..30 | Field Status | M |
|---|---|---|---|---|---|
| **Field Name** | | **Order Reference** | | | |
| Description | | This field contains the receipt order number which refers to the erroneous original message – on the incoming site only a Shipment Notification is used currently. | | | |
| Processing outgoing EDI Sub-System | | | | | |
| ERP LN | | The ELP LN table field ecedi750.eono is mapped to this position. | | | |
| Processing Incoming EDI Sub-System | | Transmission of the value from the message file. | | | |
| ERP LN | | The ERP LN table field whinh430.shpm is mapped to this position. | | | |

| Position | 8 | Field Format | an..6 | Field Status | C |
|---|---|---|---|---|---|
| **Field Name** | | **EDI Message** | | | |
| Description | | This field contains the receipt EDI message type. | | | |
| Processing outgoing EDI Sub-System | | | | | |
| ERP LN | | The ELP LN table field ecedi750.mess is mapped to this position. | | | |
| Processing Incoming EDI Sub-System | | | | | |
| ERP LN | | N. A: | | | |

| Position | 9 | 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 | | This field will be filled with the constant value ‘SA2_END’. | | | |
| Processing Incoming EDI Sub-System | | This field will be filled with the constant value ‘SA2_END’. | | | |
| ERP LN | | None | | | |

# SA3 Line Details

Status: Mandatory

Frequency: Multiple by Error Notification

Description: This data records contain information about the errors; and it is related to SA2.

| Error Notification 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 | O/I | M | an3 | SA3 | | SA3 | |
| 2 | Message Reference | O/I | M | an..35 | ecedi701.bano | Generation (see below) | ecedi702.bano | Generation by EDI Sub-System |
| 3 | Net ID of Sender | O/I | M | an..17 | ecedi020.neta | Conversion (see below) | ecedi702.bpid | Conversion (see below) |
| 4 | Massage | O/I | M | an..6 | ecedi001.code | | ecedi702.mess | |
| 5 | Order Reference | O/I | M | an..6 | eced750.eono | | ecedi702.msno | |
| 6 | EDI Information | | C | an..3<br>an..80 | "TR" | | whinh430.iedi(1) | |
| 7 | Field Identifier / EDI Information 2 | | C | an..6<br>an..80 | ecedi751.rfid | | whinh430.iedi(2) | |
| 8 | Field | | C | an..15 | ecedi751.trfd | | | |
| 9 | Field Value / EDI Information 3 | | C | an..35<br>an..80 | ecedi751.efld | | whinh430.iedi(3) | |
| 10 | Error Code / EDI Information 4 | | C | an..6<br>an..80 | ecedi751.ercd | | whinh430.iedi(4) | |
| 11 | Error Warning Message Line 1/ EDI Information 5 | | C | an..80 | ecedi751.dsc1 | | whinh430.iedi(5) | |

| Error Notification In-house Format | | | | Mapping from Application Table Fields (out) | Mapping to Application Table Fields (in) |
|---|---|---|---|---|---|
| 12 | Error Warning Message Line 2/ EDI Information 6 | C | an..80 | ecedi751.dsc2 | whinh430.iedi(6) |
| 13 | Data record end sign | M | an..3 | SA3_END | SA3_END |

Detailed description: Error Notification

Type of data record: SA3 Shipment Lines

| **Position** | **1** | **Field Format** | **an3** | **Field Status** | **M** |
|---|---|---|---|---|---|
| **Field Name** | | **Type of Data Record** | | **Key field Out / IN** | |
| Description | | This field identifies the type of data record in the message block. It contains the constant value ‘SA3’. | | | |
| Processing outgoing EDI Sub-System | | | | | |
| ERP LN | | This field will be filled with the constant value ‘SA3’. | | | |
| 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 Out / IN** | |
| Description | | This field identifies all connected data records of one Error Notification. The numbering, which has to be clear by the Notification, helps to control the chronological order of the messages and the complete transmission. | | | |
| Processing outgoing EDI Sub-System | | | | | |
| ERP LN | | Analogously to data record SA1 | | | |
| Processing Incoming EDI Sub-System | | | | | |
| ERP LN | | Analogously to data record SA1 | | | |

| Position | 3 | Field Format | an..17 | Field Status | M |
|---|---|---|---|---|---|
| **Field Name** | | **Net ID of sender** | | **Key field Out / In** | |
| Description | | This field contains the identification of the sender (for example the ILN Number) | | | |
| Processing outgoing EDI Sub-System | | | | | |
| ERP LN | | Analogously to data record SA1 | | | |
| Processing Incoming EDI Sub-System | | | | | |
| ERP LN | | Analogously to data record SA1 | | | |

| Position | 4 | 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 ‘Error Notification’ is ERN001. | | | |
| Processing outgoing EDI Sub-System | | . | | | |
| ERP LN | | Analogously to data record SA2 | | | |
| Processing Incoming EDI Sub-System | | Analogously to data record SA2 | | | |
| ERP LN | | | | | |

| Position | 5 | Field Format | an..30 | Field Status | M |
|---|---|---|---|---|---|
| **Field Name** | | **Order Reference** | | | |
| Description | | This field contains the receipt order number which refers to the erroneous original message. | | | |
| Processing outgoing EDI Sub-System | | | | | |
| ERP LN | | Analogously to data record SA2 | | | |
| Processing Incoming EDI Sub-System | | | | | |
| ERP LN | | Analogously to data record SA2 | | | |

| Position | 6 | Field Format | an..3 / an..80 | Field Status | C |
|---|---|---|---|---|---|
| **Field Name** | | **EDI Information** | | | |
| Description | | This field contains a qualifier “TR” on the outgoing site and the first EDI Information referring to the sent erroneous Shipment Notification (ASN) message on the incoming site. | | | |
| Processing outgoing EDI Sub-System | | None | | | |
| ERP LN | | The constant “TR” is mapped to this position. | | | |
| Processing Incoming EDI Sub-System | | Transmission of the value from the message file. | | | |
| ERP LN | | Mapping to ERP LN table field whinh430.iedi(1). | | | |

| Position | 7 | Field Format | an..6 / an..80 | Field Status | C |
|---|---|---|---|---|---|
| **Field Name** | | **Field Identifier / EDI Information 2** | | | |
| Description | | This field contains<br>the identifier for the erroneous field on the outgoing site and<br>the first EDI Information referring to the sent erroneous Shipment Notification (ASN) on the incoming site. | | | |
| Processing outgoing EDI Sub-System | | None | | | |
| ERP LN | | The ELP LN table field ecedi751.rfid is mapped to this position. | | | |
| Processing Incoming EDI Sub-System | | Transmission of the value from the message file. | | | |
| ERP LN | | Mapping to ERP LN table field whinh430.iedi(2). | | | |

| Position | 8 | Field Format | an..15 | Field Status | C |
|---|---|---|---|---|---|
| **Field Name** | | **Field** | | | |
| Description | | This field contains the erroneous field. | | | |
| Processing outgoing EDI Sub-System | | | | | |
| ERP LN | | The ELP LN table field ecedi751.trfd is mapped to this position. | | | |
| Processing Incoming EDI Sub-System | | | | | |
| ERP LN | | | | | |

| Position | 9 | Field Format | an..35 / an..80 | Field Status | C |
|---|---|---|---|---|---|
| **Field Name** | | **Field Value / EDI Information 3** | | | |
| Description | | This field contains<br>the identifier for the field's value on the outgoing site and<br>the first EDI Information referring to the sent erroneous Shipment Notification (ASN) on the incoming site. | | | |
| Processing outgoing EDI Sub-System | | None | | | |
| ERP LN | | The ELP LN table field ecedi751.efld is mapped to this position. | | | |
| Processing Incoming EDI Sub-System | | Transmission of the value from the message file. | | | |
| ERP LN | | Mapping to ERP LN table field whinh430.iedi(3). | | | |

| Position | 10 | Field Format | an..6 / an..80 | Field Status | C |
|---|---|---|---|---|---|
| **Field Name** | | **Error Code / EDI Information 4** | | | |
| Description | | This field contains<br>the identifier for the related error code on the outgoing site and<br>the first EDI Information referring to the sent erroneous Shipment Notification (ASN) on the incoming site. | | | |
| Processing outgoing EDI Sub-System | | None | | | |
| ERP LN | | The ELP LN table field ecedi751.dsc1 is mapped to this position. | | | |
| Processing Incoming EDI Sub-System | | Transmission of the value from the message file. | | | |
| ERP LN | | Mapping to ERP LN table field whinh430.iedi(4). | | | |

| Position | 11 | Field Format | an..6 / an..80 | Field Status | C |
|---|---|---|---|---|---|
| **Field Name** | | **Error Warning Line 2 / EDI Information 6** | | | |

| | |
|---|---|
| Description | This field contains<br>the identifier for the error warning – line 2 - on the outgoing site and the first EDI Information referring to the sent erroneous Shipment Notification (ASN) on the incoming site. |
| Processing outgoing EDI Sub-System | None |
| ERP LN | The ELP LN table field ecedi751.dsc2 is mapped to this position. |
| Processing Incoming EDI Sub-System | Transmission of the value from the message file. |
| ERP LN | Mapping to ERP LN table field whinh430.iedi(6). |

| Position | 12 | 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 | This field will be filled with the constant value ‘SA3_END’. |
| 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;<br>Standard definitions of American EDI Directories |
| ASCII | American Standard Code for Information Interchange |
| ASN | Advanced Shipment Notification |
| BEM | Baan Electronic Message - abbreviated form of BEMIS used with the definition of the EDI organization |
| BEMIS | “BAAN Electronic Message Interchange System”;<br>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;<br>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;<br>Standard definitions of German EDI Directories |

# Appendix A
# Sample File

A

## Example Outgoing message

"SA1";"ETN08080614382300000000000000000003";"ETN293";"ERN001";"293001138";"etcus1";"BEMIS";"ORD001";
"";"";20080806;"SA1_END"

"SA2";"ETN08080614382300000000000000000003";"ETN293";"ERN001";"293001138";"293001138";;"ORD001";
"SA2_END"

"SA3";"ETN08080614382300000000000000000003";"ETN293";"ERN001";"293001138";"TR";"";"tdsls400.orno";
"POAMS1";"";"Series  not defined for First Free Number Group 310.";"";"SA3_END"

"SA3";"ETN08080614382300000000000000000003";"ETN293";"ERN001";"293001138";"TR";"";"tdsls400.ofbp";
"POAMS1";"";"The Sold-to Business Partner field has an invalid value in";"Sales Orders.";"SA3_END"

"SA3";"ETN08080614382300000000000000000003";"ETN293";"ERN001";"293001138";"TR";"";"tdsls400.ofbp";
"POAMS1";"";"Sold-to business partner or overall business partner is";"inactive";"SA3_END"

"SA3";"ETN08080614382300000000000000000003";"ETN293";"ERN001";"293001138";"TR";"";"tdsls400.ofbp";
"POAMS1";"";"Reference POAMS1 not found in table tccom110";"";"SA3_END"

"SA3";"ETN08080614382300000000000000000003";"ETN293";"ERN001";"293001138";"TR";"";"tdsls400.cofc";
"ETCUS1";"";"Reference ETCUS1 not found in table tdsls012";"";"SA3_END"

"SA3";"ETN08080614382300000000000000000003";"ETN293";"ERN001";"293001138";"TR";"";"tdsls400.cwar";
"ETCUS1";"";"Reference ETCUS1 not found in table tcmcs003";"";"SA3_END"

"SA3";"ETN08080614382300000000000000000003";"ETN293";"ERN001";"293001138";"TR";"";"tdsls400.cwar";
"ETCUS1";"";"The Warehouse field has an invalid value in Sales Orders.";"";"SA3_END"

"SA3";"ETN08080614382300000000000000000003";"ETN293";"ERN001";"293001138";"TR";"";"tdsls400.cwar";
"ETCUS1";"";"Warehouse does not belong to logistic company 293.";"";"SA3_END"

"SA3";"ETN08080614382300000000000000000003";"ETN293";"ERN001";"293001138";"TR";"";"tdsls400.cwar";"ETCUS1";"";"Warehouse ETCUS1 is not found in logistic company 293.";"";"SA3_END"

"SA3";"ETN08080614382300000000000000000003";"ETN293";"ERN001";"293001138";"TR";"";"tdsls400.cwar";"ETCUS1";"";"Warehouse ETCUS1 not found.";"";"SA3_END"

"SA3";"ETN08080614382300000000000000000003";"ETN293";"ERN001";"293001138";"TR";"";"tdsls400.cpay";"030";"";"The Terms of Payment field has an invalid value in Sales";"Orders.";"SA3_END"

"SA3";"ETN08080614382300000000000000000003";"ETN293";"ERN001";"293001138";"TR";"";"tdsls400.cpay";"030";"";"Department  not found for company 293";"";"SA3_END"

"SA3";"ETN08080614382300000000000000000003";"ETN293";"ERN001";"293001138";"TR";"";"tdsls400.itad";"tdsls400.itad";"";"Field tdsls400.itad of table tdsls400 must be filled";"";"SA3_END"

"SA3";"ETN08080614382300000000000000000003";"ETN293";"ERN001";"293001138";"TR";"";"tdsls400.ofad";"tdsls400.ofad";"";"Field tdsls400.ofad of table tdsls400 must be filled";"";"SA3_END"

"SA3";"ETN08080614382300000000000000000003";"ETN293";"ERN001";"293001138";"TR";"";"tdsls400.pfad";"tdsls400.pfad";"";"Field tdsls400.pfad of table tdsls400 must be filled";"";"SA3_END"