

# **BAAN IVb and IVc**

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## **EDI User Guide**

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# About this book

This document explains the issues involved with the implementation of Electronic Data Interchange (EDI). This document is designed for members of an EDI implementation team and end-users.

This guide covers the following topics:

- Preliminary setup steps
- Setting up a purchasing company
- Setting up a selling company
- Running EDI
- Review of the standard EDI procedure
- Using internal EDI

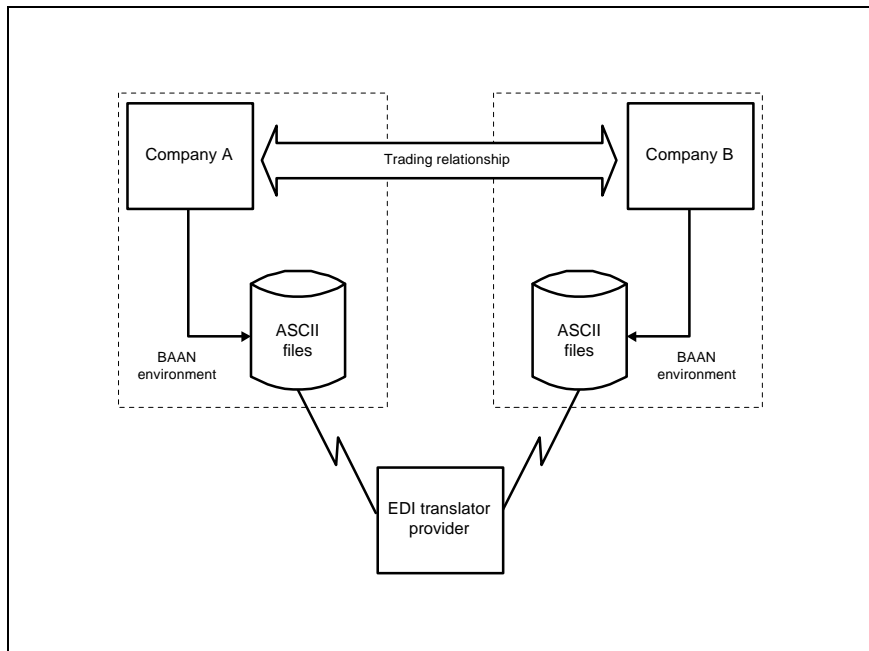
Also included are detailed lists of the EDI conversion setups and a glossary.





# 1 Introduction

In today's business environment, companies face increasing order volumes and higher demands on the speed of communication. The electronic transfer of data (referred to as EDI, for Electronic Data Interchange) has become an important part of day-to-day business. EDI is used to process standard messages between two trading partners, usually through an external translator. The translator is typically another company that provides translation services and, possibly, other network services.



*Figure 1-1 Electronic data interchange (EDI)*

The BAAN EDI module can generate and read ASCII files with a flexible format. When you use BAAN EDI to exchange documents, these ASCII files are translated, or reformatted, using standard EDI message formats, such as ANSI X12, UN/EDIFACT, ODETTE, and VDA by a third-party translator, to provide a format supported by your trading relation.

The data files are typically transferred between external trading partners over commercial (a value added network) or noncommercial (for example, Internet) networks. The translation of the ASCII files that are created or received by BAAN EDI is handled by third-party translation and communication software that may additionally provide encryption for transferring data over unsecured networks. BAAN EDI software does not provide this translation and communication functionality. This environment is referred to as external EDI throughout this document.

The transfer of internal EDI messages is similar to the external EDI situation except for the translation and communication requirements. Internal EDI is also referred to as multicompany or multisite. In multisite EDI implementations, the ASCII files are usually transferred over an internal company network (LAN or WAN) which means that encryption is not required. Also, because all companies (or sites) in the multisite structure use the same format for the ASCII files, translation to a different external EDI standard is generally not required.

## Overview

This guide will help you understand the steps involved in implementing and using the BAAN EDI solution. This application provides several tools to help you with this, including:

- Default conversion setups for the supported transaction sets
- Mechanisms for identifying the relations and supported messages
- Conversion tables to help with specific conversion information
- Code tables for code identification purposes
- Message generation management
- Message audit and correction management

BAAN provides default data that can be imported into BAAN EDI. The default data includes the following:

- The X12 and EDI organizations, which represent ANSI X12 and EDIFACT Standard, by which other EDI elements can be grouped
- Supported messages that follow the X12 and EDIFACT Standard naming conventions, grouped by organization (EDI messages and the supported messages defined in EDI Master Data)
- Conversion setups for each supported message that define the ASCII file layouts and supported fields for each message
- Default codes for order types, item code IDs, address code IDs, and address types that can be used in code conversions

- Outgoing messages by session, which links all supported outgoing messages to the session that prepares the EDI message for generation

### Supported messages

The BAAN IV release supports the following messages. The table includes the transaction set, or message, codes to which these correspond for the indicated EDI standards.

EDI standard/message description	X12	EDIFACT	ODETTE	VDA	Direction
Invoice	810	INVOIC	INVOIC	4906/ 4908	in/out
Remittance Advice	820	REMADV	REMADV	4907	in only
Purchase Order	850	ORDERS	ORDERR	4925	in/out
Purchase Order Acknowledgment	855	ORDRSP	CONFOR	4926	in/out
Advance Ship Notice	856	DESADV	AVIEXP	4913	in/out

The VRC B40bGLO includes two additional messages:

Message description	X12	EDIFACT	ODETTE	VDA	Direction
Purchase Order Change	860	ORDCHG	REPORT	4906/ 4908	in/out
Purchase Order Change Acknowledgment	865		CONFOR	4926	in/out

Each message has a code that relates to a particular standard. For example, ORDERS is the code used for the UN/EDIFACT purchase order and 850 is the code used for the ANSI X12 purchase order. Each standard has its own identification method for defining the name of the message.

This naming convention is maintained in the BAAN EDI default data. You can easily identify the BAAN message with the EDI standard name for X12 and EDIFACT. The message names can be customized.

The message data provided in the BAAN EDI default data conversion setups include the ASCII file layouts that can be mapped to your EDI standard. To keep the examples simple, ANSI X12 terminology will be used throughout this document when referring to the messages.

The next few chapters cover the actual setup of EDI data, as well as the usage of EDI from a procedural point of view.

The setup of data is structured as follows:

- General data setup of EDI company
- Setup of purchasing company: setup specific to defining your trading partner as the seller, you as the buyer
- Setup of selling company: setup specific to defining your trading partner as the buyer, you as the seller

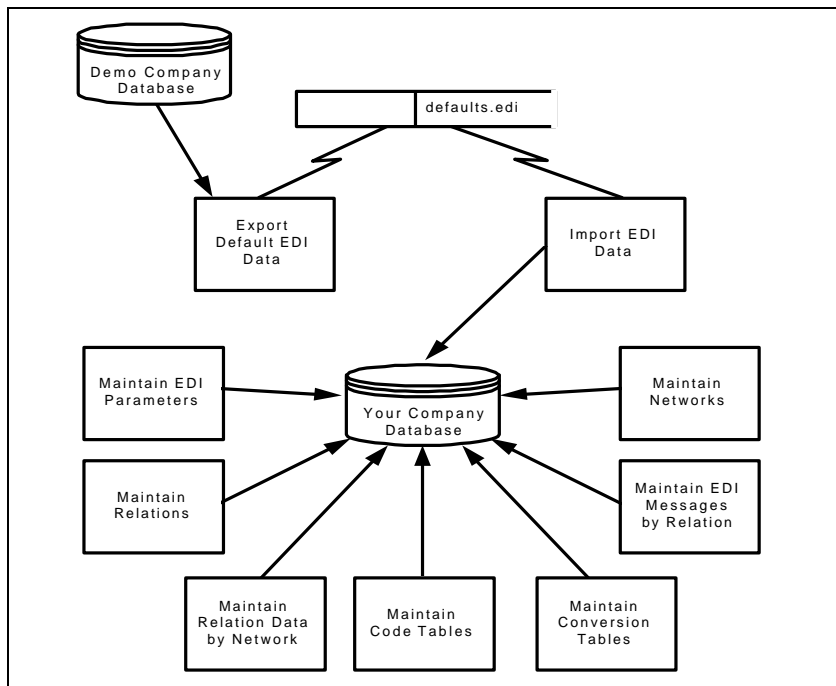
Later chapters review the currently supported EDI conversion setups from the BAAN IV standard and GLO VRCs

## 2 General setup for EDI

EDI-specific data setup includes the following steps (in order of execution):

- 1 Maintain EDI parameters
- 2 Export default EDI data
- 3 Import EDI data
- 4 Maintain networks
- 5 Maintain relations
- 6 Maintain relation data by network
- 7 Maintain code tables
- 8 Maintain conversion tables
- 9 Maintain EDI messages by relation

Figure 2-1 shows the relationships between the setup steps and the databases involved.



*Figure 2-1 EDI setup*

## Parameters

Set your EDI parameters. Only the first of the two screens must be filled, as displayed in the following figures.

The screenshot shows a window titled "tcedi0100m000 : Maintain EDI Parameters [653]". The window has a menu bar with "File", "Edit", "Group", "Options", "Order", "Tools", "Special", and "Help". Below the menu bar is a toolbar with icons for back, forward, search, and other navigation functions. The main area contains two tabs, "Form 1" and "Form 2", with "Form 1" selected. The form contains the following fields and values:

EDI Implemented	Yes
Standard Path	/home/edi/
Make Use of Tracefile	Yes
Name of Tracefile	trace
Our Identification	653
Store All Received Messages	Yes
Store All Sent Messages	Yes
Reference Number	
Fixed Part	653
Date Format	Without Century (YYMMDD)
First Free Number	5
Action on First Message on New Date	Start with 1
Suppress Blank Text Lines on Generation	Yes
Suppress Blank Generated Text Fields	No

At the bottom of the window, there are two buttons: "modify" and "alphanum".

Figure 2-2 Maintain EDI Parameters (tcedi0100m000) session, form 1

<b>Explanation of parameters</b>	
<b>Parameter</b>	<b>Explanation</b>
EDI Implemented	A Yes/No field that indicates if EDI is implemented in this company.
Standard Path	Select the directory in which all EDI-related data is located. The actual messages for your company are stored in a series of subdirectories, which will be defined at a later stage. The directory defined here is the directory in which the import utility will search for the Defaults.edi file as explained in the previous section and to which the export utility will write files.
Make Use of Trace File	If this field is Yes, a log file (trace file) is created for every processed message. In case of a read or generation error, the log file can provide more insight into the problem. Typically you will maintain a setting of Yes during the implementation and testing phases of EDI.
Name of Trace File	The application will append a 4-digit incrementing number to the name specified in this field to obtain a unique name for each trace file. For easy identification, you may want to include the company number in the name of the trace file.
Our Identification	The communication address that is used by your trading relation to identify you. For internal EDI, using the company number as an address is a good choice. For external EDI, the communication address can be used by the translation/communication software to identify you as the sender of the message.
Store All Messages	If this field is Yes, a copy of every received or sent message is kept. Refer to Networks in Chapter 2, for directory structure information.
Reference Number	The reference number is used for outgoing messages and is created when an EDI message is generated. This number uniquely identifies the message. Because the actual data belonging to the message is distributed over multiple ASCII levels, this number is also used to identify which parts of the message belong together. The number is built up of three concatenated parts: 1 A string of characters defined in the Fixed Part field 2 The system date in one of several formats (Date Format field) 3 An incrementing number

<b>Explanation of parameters</b>	
<b>Parameter</b>	<b>Explanation</b>
Fixed Part	The fixed part of the reference number.
Date Format	The date format of the reference number.
First Free Number	The next available sequence number.
Action on New Date	Because the date is included in the reference number, the number will be unique on a new date, even if the incrementing number is repeated with 0 or 1. You can also keep incrementing the number. In that case, that number tells you how many messages have been generated so far.
Suppress Blank Text Lines	If this field is Yes, empty text lines are not included in a generated message, limiting the text content to significant information.
Suppress Blank Text Fields	If this field is Yes, empty text fields are not included in a generated message, limiting the message content to significant information.



Figure 2-3 Maintain EDI Parameters (tcedi0100m000) session, form 2

Explanation of fields	
Field	Explanation
Interchange Message	Not used at this time.
Interchange Conversion Setup	Not used at this time.
Message Overhead Conversion Setup	Not used at this time.

Once you begin transmitting messages, you should not change the standard path identification or the way the reference number is created.

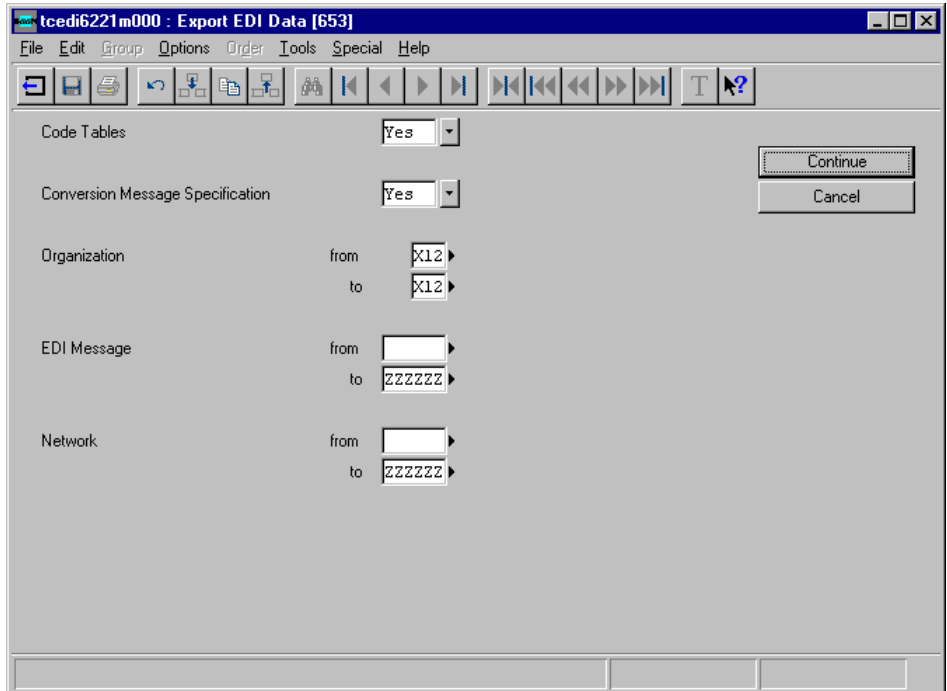
### EDI default data

Although much of the setup data in the EDI module is user-definable, BAAN provides all the necessary EDI data as default data. This default data is installed in demo company 812. To avoid entering or changing this data in each of your companies, you can export the setup data to an ASCII file and import them into other companies.

You can export the setup data from this company using the Export EDI Data (tcedi6221m000) session. This session creates a file called *Defaults.edi* in the EDI directory that is specified in the Standard Path field in the EDI parameters of company 812. Before you run the Export EDI Data (tcedi6221m000) session, you must create an EDI directory in \$BSE and make sure that the full path of this directory is specified in the Standard Path field of the EDI parameters of company 812.

In principle, you only need to export the EDI data once. However, you can make changes to the default data (organizations, networks, code or conversion tables, or conversion setups) in any company and use the export/import sessions to transfer that data to other companies. Once exported, the *Defaults.edi* file contains the default EDI setup data for import into your normal BAAN company database, as explained in the following sections.

You should export the data for organization X12 if you want the correct default data for external and internal EDI.



*Figure 2-4 Export EDI Data (tcedi6221m000) session*

The exported default data can be imported into the EDI modules of the individual companies.

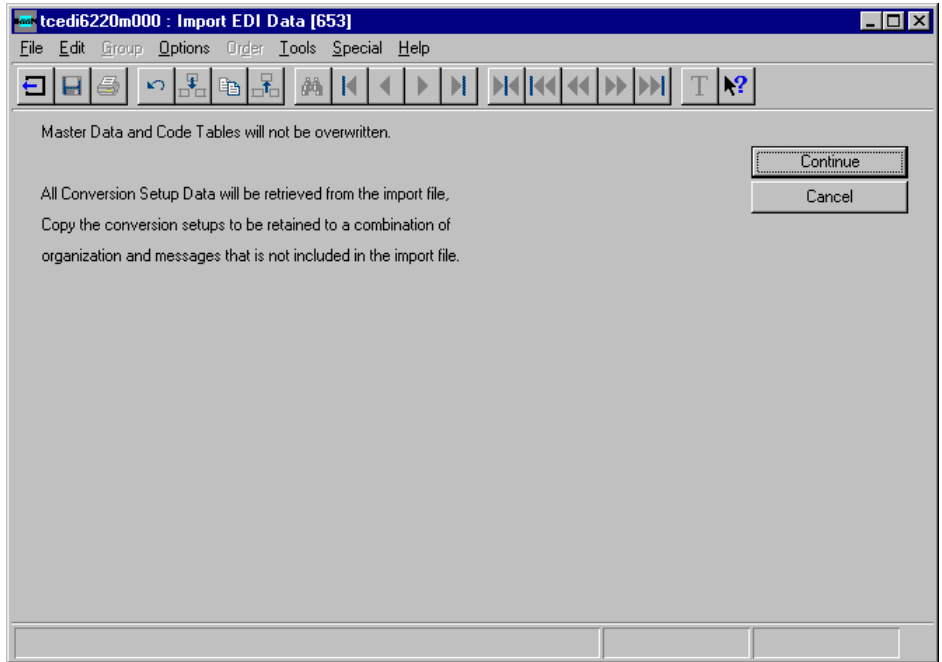
**NOTE**

Contact a BAAN Support Center to find out if your default data is up to date.

Once the Defaults.edi file has been exported from the demo company 812, and resides in the directory specified in your EDI parameters, you can import the data back into other companies.

You must define a default text group for the user who executes the import before running the Import EDI Data (tcedi6220m000) session because the import will read a number of evaluation expressions, which are stored as text blocks. This can be done in the Maintain Default Text Group by User (ttxt0100m000) session.

To import the Defaults.edi file into your new company, run the Import EDI Data (tcedi6220m000) session.



*Figure 2-5 Import EDI Default Data (tcedi6220m000) session*

### **Basic EDI setup using default EDI data on UNIX**

Default EDI data for the standard IVc UNIX environment is supplied in the following files.

- **\$BSE/lib/edi/def4c.x12** for the ANSI X12 data
- **\$BSE/lib/edi/def4c.edi** for the UN/EDIFACT data

The data in these files consists of the master data required for the very basic EDI setup. Two files have been provided for each of the two environments listed below: one containing master data using the ANSI X12 standard conventions, and one containing master data using the UN/EDIFACT standard conventions.

To import this data into the BAAN application, carry out the following steps:

- Rename the default EDI data file that you want to import (choose a directory) to *defaults.edi*.
- Set the EDI parameter table in the Baan Application Company to read the directory with the *defaults.edi* file. This can be done via the Maintain EDI Parameters (tcedi0100m000) session. The EDI Implemented field must be set to Yes, and the Standard Path field must contain the path name for the directory containing the defaults.edi file to import.
- Set up the Default Text Group for the user that is currently logged on. This can be done via the Maintain Default Text Group by User (ttxt1113m000) session.
- Run the Import EDI Data (tcedi6220m000) session to import these EDI defaults.
- Check and verify the defaults in the Baan Application Company for:
  - Organization
  - EDI messages
  - EDI messages supported by organizations
  - Outgoing messages by session
  - Conversion setups for each supported message for each of the organizations imported
  - Conversion setup relationships
  - Evaluation Expression text

Once you have imported this EDI default data, BAAN IVc is ready for other setups, for example, to build business relations, networks, and so on.

## Networks

Networks are used to specify the directory that BAAN EDI uses to store and retrieve messages (ASCII files). Because data for multisite relations does not need to be translated into actual EDI messages, internal EDI data must be separated from external EDI data.

In most cases, you will need two networks.

- One network represents the directory for internal (multisite) EDI.
- The other network represents the directory where you will exchange files with the translation/communication software that handles the transmission of messages to external trading partners.

Figure 2-6 shows how you can define a network for your external trade relations.

The screenshot displays a software window titled "tcedi0120m000 : Maintain Networks [653]". The window has a menu bar with "File", "Edit", "Group", "Options", "Order", "Tools", "Special", and "Help". Below the menu bar is a toolbar with various icons for navigation and editing. The main area is divided into two tabs: "Form 1" and "Form 2". The "Form 1" tab is active and contains the following fields:

Network	XT-NET
Description	External Trade Network
Path	/home/edi/xtnet/653/
Our Identification	653
Multicompany	No
Start Read Batch after Generating	No
General Reference	Yes
Fixed Part	
Date Format	
First Free Number	
Action on New Date	

At the bottom of the window, there are two buttons: "modify" and "alphanum".

Figure 2-6 Maintain Networks (tcedi0120m000) session, form 1

<b>Explanation of fields</b>	
<b>Field</b>	<b>Explanation</b>
Network	Your name for the network.
Description	Free form description of the network that is being defined.
Path	<p>The directory where all EDI data related to this network will be stored. This is usually is a subdirectory of the EDI directory defined in the EDI parameters.</p> <p>If you have more than one BAAN company that will be used for external EDI, you should create unique directories for each company. An easy way to accommodate this is to create a subdirectory under your EDI path for each company and assign that directory to each company's network.</p> <p>For example, if companies 420 and 422 are both used for external trade, company 422 can have the path: /Home/Edi/422 assigned to its network; company 420 can have the path: /Home/Edi/420.</p>
Our Identification	Your network address for this particular network. This may be the unique code you use to represent yourself to your EDI trading partners (internal and external).
Multicompany	For external EDI, this field is No; for multisite EDI, this field is Yes.
Start Read Batch After Generating	This field pertains only to internal EDI. It is used to allow automatic processing of data without requiring user intervention to start the process.
General Reference	<p>If this field is Yes, unique message numbers are created for messages sent through this network based on EDI parameter settings.</p> <p>If this field is No, you can create different settings for each network.</p>
Fixed Part	Identifies the fixed part of the reference number created in this network if the General Reference field is No.
Date Format	Identifies the date format of the reference number created in this network if the General Reference field is No.
First Free Number	The next available sequence number if the General Reference field is No.
Action on New Date	<p>If the General Reference field is No:</p> <p>Start with 0; the first outgoing message has sequence number 0</p> <p>Start with 1; the first outgoing message has sequence number 1</p> <p>Last Number +1; the first outgoing message has the number of the last message to have been sent plus 1 as the sequence number.</p>

## 2 General setup for EDI

The screenshot shows a window titled "tcedi0120m000 : Maintain Networks [653]". The menu bar includes "File", "Edit", "Group", "Options", "Order", "Tools", "Special", and "Help". The toolbar contains icons for back, forward, search, and other navigation functions. The main area displays "Form 2" with the following configuration:

Network	XT-NET	External Trade Network
Record Separator	LF	
Field Type	Delimited	
Separator Sign		Sign Around Strings <input type="checkbox"/>
Replacement Sign	\	Replacement Sign <input type="checkbox"/>
Leading Zeros	No	
Suppress Standard Communication	No	
Generate Outgoing Messages before Connection	Yes	

At the bottom right, there is a "modify" button.

Figure 2-7 Maintain Networks (tcedi0120m000) session, form 2



<b>Explanation of fields</b>	
<b>Field</b>	<b>Explanation</b>
Record Separator	Each line (record) in the ASCII file ends with an LF (Linefeed) and CR (Carriage Return) character, or only the LF (use this when the CR is automatically added by the system).
Field Type	If this field is Delimited, the fields in the ASCII files are separated by a special separator sign. If this field is Fixed Length, each field has a specific, absolute start position and length.
Separator Sign	The character that is used to delimitate fields in the ASCII files if the Field Type field is Delimited.
Replacement Sign	If the separator sign is used in a field content, it will be replaced by this character (otherwise it would be interpreted as a separator).
Sign Around Strings	This character will be used to enclose fields that contain alphanumeric characters. This field is optional.
Replacement Sign	If the sign around strings is used in a string field, it will be replaced by this character (otherwise it would be interpreted as the end of the string). This field is optional.

**NOTE**

When creating any of the special signs, do not use any common punctuation characters. This could cause problems when a message is translated. For example, never use a comma as a separator or the sign around a string because this character is used in the Address field.

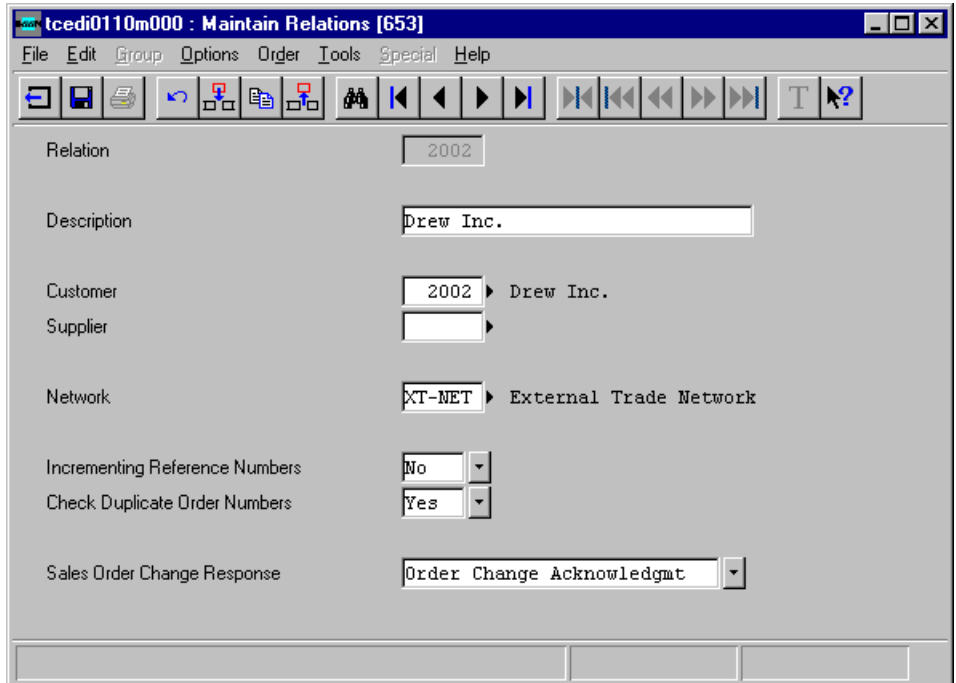
<b>Explanation of fields</b>	
<b>Field</b>	<b>Explanation</b>
Leading Zeros	When using the Fixed Length field type, the unused positions for numbers can be filled with leading zeros instead of spaces.
Suppress Standard Communication	This field indicates if the communication with the external EDI network must be suppressed. If this field is No, the standard procedure of the external EDI communication software is used (referred to as semaphore logic). Refer to External EDI network communication in Chapter 4. If this field is Yes, The standard communication procedure is not executed.
Generate Outgoing Messages before Connection	If this field is Yes, the Direct Network Communication (tcedi7205m000) session will first generate all pending outgoing messages (equivalent to running Generate EDI Messages (tcedi7201m000) session) before reading incoming messages.

The result of saving the network definition is the creation of a number of subdirectories under the path (directory) specified for the network. The following subdirectories are created for external EDI:

<b>Subdirectory</b>	<b>Description</b>
appl_from	This is where all EDI messages generated by BAAN EDI are stored. This is the directory from which your translation/communication software will retrieve files for exporting.
appl_to	This is where all EDI messages to be received into the BAAN application are stored. This is the directory to which the translation/communication software will write files that must be processed and imported by BAAN EDI.
appl_text	If a message contains any text fields, this directory contains temporary files that are used to build up the text blocks.
appl_trace	This directory contains the created log (trace) files.
command	This directory is used by the system for semaphores. The semaphore, or flagging, mechanism is used to communicate with a third-party translation/communication software to ensure that the third-party software and BAAN EDI are not attempting to access files at the same time. This semaphore mechanism uses the creation and deletion of empty files in this command subdirectory to indicate when certain processes are active, or can be activated. See External EDI network communication in Chapter 4, for a more detailed explanation of semaphores.
store_send	This is where sent messages are archived based on EDI parameter settings.
store_rcv	This is where received messages are archived based on EDI parameter settings.

## EDI relations

Up to now you still have not defined your valid EDI trading partners. Do this by defining various customers and suppliers as relations, as shown in Figure 2-8.



The screenshot shows a software window titled "tcedi0110m000 : Maintain Relations [653]". The window has a menu bar with "File", "Edit", "Group", "Options", "Order", "Tools", "Special", and "Help". Below the menu bar is a toolbar with various icons for navigation and editing. The main area of the window contains several fields for defining a relation:

- Relation: 2002
- Description: Drew Inc.
- Customer: 2002 Drew Inc.
- Supplier: (empty)
- Network: XT-NET External Trade Network
- Incrementing Reference Numbers: No
- Check Duplicate Order Numbers: Yes
- Sales Order Change Response: Order Change Acknowledgmt

Figure 2-8 Maintain Relations (tcedi0110m000) session

<b>Explanation of fields</b>	
<b>Field</b>	<b>Explanation</b>
Relation	A relation code you establish for this customer or supplier
Description	Description of the relation.
Customer	The customer number of this relation, if the relation is a customer.
Supplier	The supplier number of this relation, if the relation is a supplier.
Network	The network you use to communicate with this relation (information only).
Incrementing Reference Numbers	<p>If this field is Yes, the application checks if the new message has a higher reference number than previously received messages (and is therefore newer). If not, a warning is displayed and the message rejected.</p> <p>If this field is No, the new message is rejected if the reference number has already been received. However, if the reference number of the new message is lower than previously received numbers, and that lower number has not been received before, the message is accepted.</p>
Check Duplicate Order Numbers	<p>If this field is Yes, the application checks if the customer's purchase order number in the new message has already been received for incoming orders processed. If so, an error is created for the message.</p> <p>If this field is No, the application receives the new message, with a customer's purchase order that has already been received, as a new sales order (provided the check on the reference number did not result in rejection of the message) when processing incoming orders.</p>
Sales Order Change Response	<p>Indicates the type of acknowledgment generated in response to a sales order change.</p> <p>In UN/EDIFACT environments, this field is set to Order Acknowledgment. In the ANSI X12 environment, set this field to Change Acknowledgment if your relation wants to receive type 865 (instead of 855) in response to order changes.</p>

## Relation data by network

Because you will communicate with your trading relation over a specified network(s), you must define the network address of the trading relation for the specified network(s). This address is the technical address that is used in the envelope information (message overhead) of any EDI message sent to that relation.

For messages exported from the BAAN application for external EDI, this network address can be used by the translation/communication software to determine where the message should be routed. For messages imported into the BAAN application, it is used to identify the sender of the received message. For example, in the default data provided for the conversion setups (the default message file layouts/mappings), the network address is used in conjunction with the network code to determine the relation on incoming messages.

In any case, this network address is used to identify a relation by network. You may choose to have the network address be the same as the relation code or you can use this field to specify the actual technical address of your relation. Your choice depends on the functionality of your translation/communication software.

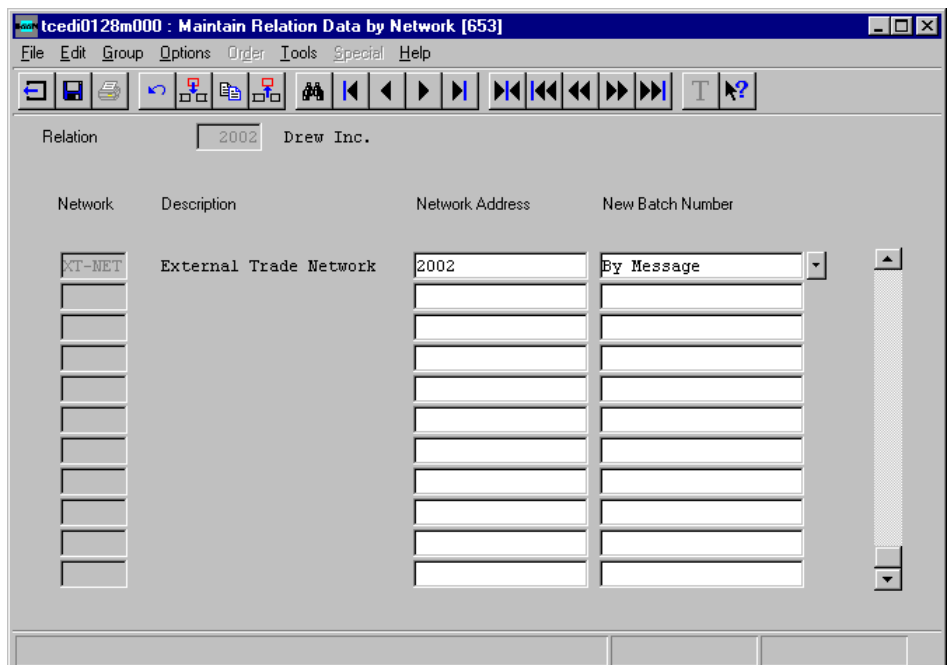


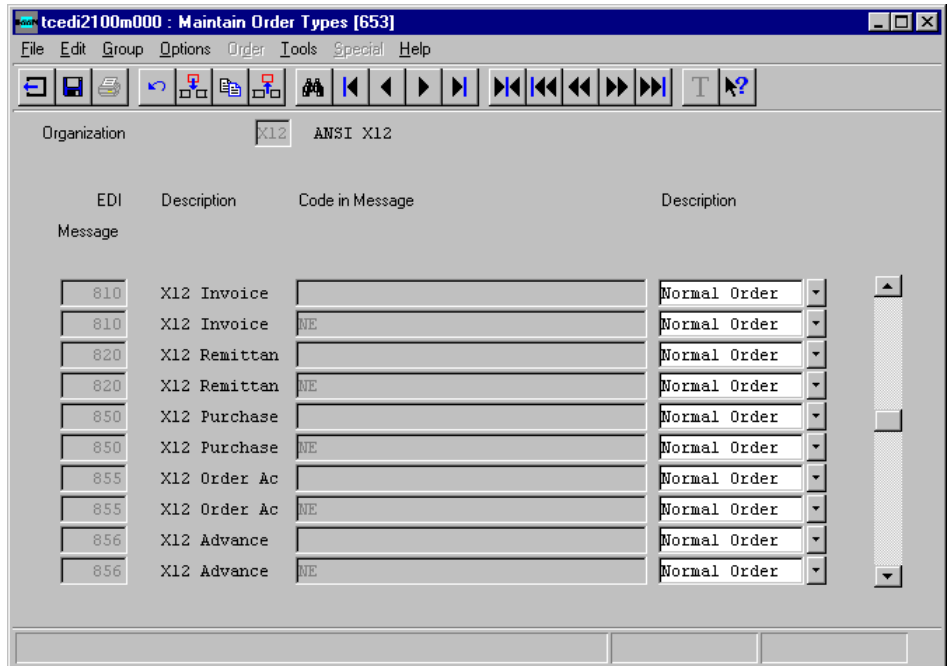
Figure 2-9 Maintain Relation Data by Network (tcedi0128m000) session

<b>Explanation of fields</b>	
<b>Field</b>	<b>Explanation</b>
Relation	One of the valid relations created with the Maintain Relations (tcedi0110m000) session
Network	The network used when communicating with this relation. Because it is possible to communicate with a relation through more than one network, you can define network address information for multiple networks per relation.
Network Address	<p>This is the network address used in the message envelope. It is used in EDI to identify a relation/network correspondence.</p> <p>For incoming messages, the network address is used to derive the relation from which the message was received.</p> <p>For outgoing messages in external EDI, the network address may be included in the exported ASCII file to uniquely identify the relation and network to the translation/communication software. This allows the translation/communication software to determine where a message exported from BAAN EDI should be routed.</p>
New Batch Number	<p>Messages can either be grouped By Message (a unique message reference for each message) or By Recipient (a unique message reference for a grouping of messages).</p> <p>The default conversion setups provided by BAAN EDI require this field to be set to By Message so that a unique message reference is assigned for each message/relation combination.</p>

## Code and conversion tables

Code tables contain the definitions of the different codes that may be present in generated or received EDI messages. Some of the code tables (for example, those found on Code and Conversion Tables 1 and Code and Conversion Tables 2 menus) are used with conversion tables to provide a cross-reference between values internal to the BAAN application (Code in Application) and external values defined by your trading partner or by an EDI standard (Code in Message). Other code tables are found on the Additional Code Table 1, Additional Code Table 2, and Additional Code Table 3 menus. These may be used to enter descriptions corresponding to selected codes that may be used in a message instead of the code itself.

**NOTE** One mandatory code is the order type code. For incoming messages, the defined order type codes represent valid order type codes that may be received and processed by BAAN EDI. For outgoing messages, the codes defined are used to maintain the conversion of order types (out). Figure 3-1 in Chapter 3, Setting up your company, provides an example.



*Figure 2-10 Maintain Order Types (tcedi2100m000) session*

Some sample data is included in the Defaults.edi file that you imported. Chapter 3, Setting up your company, and 4, Running EDI, explain how these codes are used by BAAN EDI. These two chapters discuss the additional setup steps to establish you as the buyer or the seller in the trading partner relationship.



# 3      **Setting up your company**

Each company that you create is a purchasing company, a sales company, or both. A purchasing company procures materials or services from other companies (both internal and external). A sales company sells goods or services to other companies (internal or external).

Depending on how a particular company is used, you need to set up the purchasing profile, the sales profile, or both.

## **Purchasing company**

Your company is defined as a purchasing entity. This means that purchasing activities are pursued within this company. The purchasing activities may be classified as internal only (multisite), external only, or both.

This section describes the specific setup requirements for creating the selling EDI relations (suppliers) in your company.

## **Outgoing conversions**

Conversion tables allow you to define the relationship between codes in an EDI message and the codes used in the BAAN application.

For example, unit of measure codes are usually unique to a company. However, you may need to conform to a specific unit of measure convention based on your trading relationship. If you must translate your internal pcs unit of measure code to a standard unit each, you will use the conversion code table for units to handle the automatic conversion of this data.

Remember, conversion tables only must be filled when a particular code must be converted from an internal value maintained within the BAAN application to one that is used externally. If both parties use the same codes for items and warehouses, for example, the conversion of the codes is not necessary.

**NOTE**

The conversion table for order types (out) must be filled, because it not only specifies the correct conversion of codes, but also determines which purchase order types can be sent through EDI. For example, purchase orders of the type PN3 can only be sent through EDI when the code PN3 is present in the conversion table (although it may be converted to a blank code).

When you create the conversion table for order types (out), be sure to list all valid order types you wish to send through EDI, along with the corresponding code in the message as specified in the code tables.

In the following example, the Code in Application field represents the order type on the BAAN purchase order change document; the Code in Message field represents the external value. The code in message is the value to which the code in application will be converted; the code in message value will reside in the exported message when the purchase order is exported through BAAN EDI. The code in message must be defined first as an order type in the code tables and may be used to represent the purchase order types used by the EDI standard you are using (for example, the ANSI X12 purchase order type code).

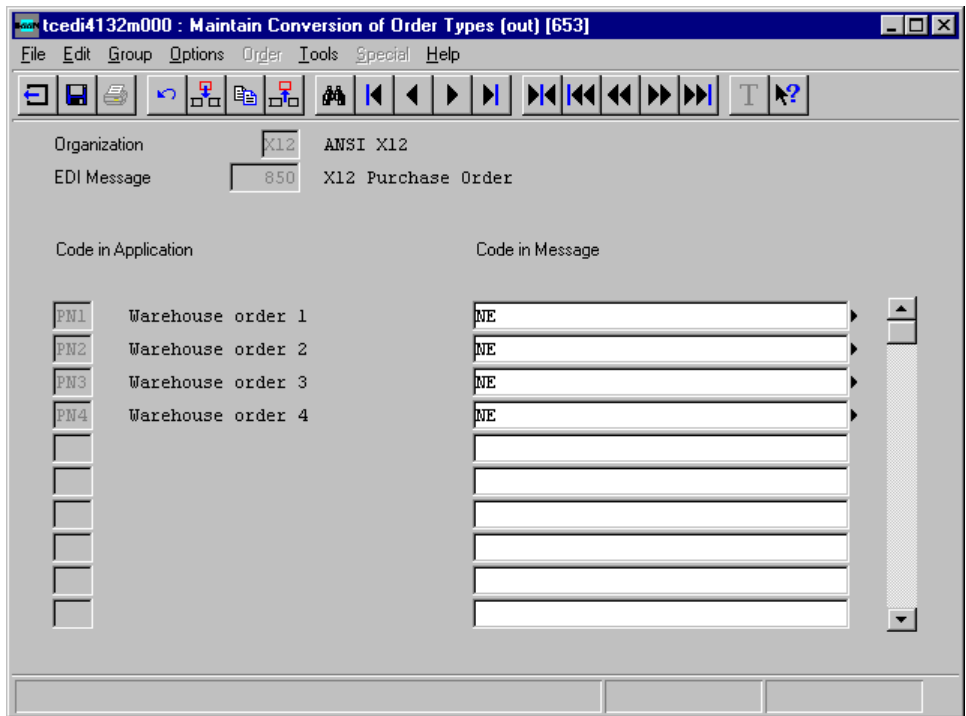


Figure 3-1 Maintain Conversion of Order Types (Out) (tcedi4132m000) session

**NOTE** There is no conversion table for incoming order types. The cross-reference (conversion) of the external order type received to a valid internal order type is handled in the EDI Messages Supported by Relation (tcedi4132m000) session.

In addition to defining the code in application and code in message for the 850/ORDERS message, you also must define the outgoing information for the 860/ORDCHG, purchase order change, message as shown in Figure 3-2. Enter the valid order types for which you will allow purchase order changes to be processed.

The screenshot shows a software window titled "tcedi4132m000 : Maintain Conversion of Order Types (out) [653]". The menu bar includes File, Edit, Group, Options, Order, Tools, Special, and Help. The toolbar contains various navigation icons. The main area has the following fields and table:

Organization: X12    ANSI X12  
 EDI Message: 860    X12 Purchase Order Change

Code in Application	Code in Message
PM1    Warehouse order 1	WE
PM2    Warehouse order 2	WE
PM3    Warehouse order 3	WE
PM4    Warehouse order 4	WE

Figure 3-2 Maintain Conversion of Order Types (Out) (tcedi4132m000) session

## EDI messages supported by relation

In this case, you are the customer. You want to send various purchasing documents such as purchase orders and purchase changes to your supplier.

After completing the general setup steps, determine what individual EDI messages you will exchange with your supplier(s). Not every relation will necessarily support each implemented message type. Use the Maintain EDI Messages Supported by Relations (tcedi0111m000) session to identify the valid messages you can transmit to or receive from a specific relation. You can also define additional information that could vary by relation.

### 3 Setting up your company

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For example, there can be slight differences in the structure (field mapping or conversion setup) of a message between relations; and maybe you find it desirable to use different conversion setups (file layouts) for different order types.

The screenshot shows a software window titled "tcedi0111m000 : Maintain EDI Messages Supported by Relations [653]". The window has a menu bar with "File", "Edit", "Group", "Options", "Order", "Tools", "Special", and "Help". Below the menu bar is a toolbar with various navigation icons. The main area is a form with two tabs: "Form 1" and "Form 2", with "Form 2" selected. The form contains the following fields and values:

Relation	2003	Helen's Test Supplier
Organization	X12	ANSI X12
EDI Message	850	X12 Purchase Order
Direction	Out	
Order Type	ME	Normal Order
Type of Number	Purchase Order	
Network	XT-NET	External Trade Network
Conversion Setup	850	Purchase Order (Out)
Person Responsible	bsp	General_User
Block		
Print	Yes	
Incoming Message		
Processing Type		

Figure 3-3 Maintain EDI Messages Supported by Relations (tcedi0111m000), form 1

<b>Explanation of fields</b>	
<b>Field</b>	<b>Explanation</b>
Relation	Enter the relation code for defining this EDI message.
Organization	The organization identifier for the set of messages you are using.
EDI Message	A valid EDI message code in the selected organization.
Direction	Choice of In or Out.
Order Type	Standard external order type (must be a valid code defined in the Order Type Code table).
Type of Number	Indicates the type of document. For incoming orders, it also determines what type of first free number will be used with the received document.
Network	This specifies the directory where the ASCII files containing the message data are read or written. Messages can be exchanged over different networks, based on the relation, configuration, direction, message type, and order type combination.
Conversion Setup	This indicates which conversion setup to use. The conversion setup defines the layout of the ASCII file containing the message data. It contains information on the mapping of data elements between the BAAN application tables and the ASCII files. Although predefined conversion setups are available and may be imported from the Defaults.edi file, you can create your own custom conversion setups.
Person Responsible	The person responsible for this relation/message type/order type combination. This is for information and reporting purposes only.
Block	Upon receipt of a purchase order through EDI, the resulting sales order can optionally be blocked for further processing,
Print	For outgoing messages, set this field to Yes to generate the outgoing message and create a hard copy of the document. For incoming messages, set this field to Yes to create a remarks report that a message of this type has been received.
Incoming Message Processing Type	Identifies whether the incoming message is processed automatically or interactively. If this field is Automatic, the message is read and processed during direct network communication. If this field is Interactive, the message is read and stored in Saved Message to be Received without any validation during direct network communication. Then, these messages can be modified, approved, and processed. See Chapter 5, Incoming message data, for additional information.

### 3 Setting up your company

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The screenshot shows a software window titled "tcedi0111m000 : Maintain EDI Messages Supported by Relations [653]". The window has a menu bar with "File", "Edit", "Group", "Options", "Order", "Tools", "Special", and "Help". Below the menu bar is a toolbar with various icons for navigation and editing. The main area contains a form with two tabs, "Form 1" and "Form 2", with "Form 2" selected. The form displays the following data:

Relation	2003	Helen's Test Supplier
Organization	X12	ANSI X12
EDI Message	850	X12 Purchase Order
Direction	Out	
Order Type	NE	Normal Order
Character Conversion	<input type="text"/>	
SLS Order Type	<input type="text"/>	
Order Procedure	<input type="text"/>	
Series	<input type="text"/>	
Item Code System	<input type="text"/>	

*Figure 3-4 Maintain EDI Messages Supported by Relations (tcedi0111m000), form 2*

<b>Explanation of fields</b>	
<b>Field</b>	<b>Explanation</b>
Character Conversion	For outgoing messages you can define how to convert certain characters (for example, all characters to upper case). Multiple conversions of characters can be defined, each stored with a different identifier (character conversion code).
SLS Order Type	This field determines what sales order type is assigned to the order when an incoming purchase order is received.  This field is only used for incoming messages.
Order Procedure	This field determines what sales order procedure is assigned to the order when an incoming purchase order is received. This field is optional.  This field is only used for incoming messages.
Series	This field determines what first free number series is assigned to the order when an incoming purchase order is received.  This field is only used for incoming messages.  When you define the series with the Maintain First Free Numbers (tcmcs0147m000) session, set the Blocked for Input field to Yes to prevent this series from being used for non-EDI sales orders.
Item Code System	Used for incoming messages to determine if a specific item code system (for item code translations) is used. (This field is optional.)  This can be used to convert items based on the item code system instead of using the EDI item code conversion tables.

The information in this section focused on the message 850/ORDERS, Purchase Order (direction out). Other conversion setups used for a Purchasing company that should be defined include:

- 855/ORDRSP, Purchase Order Acknowledgment (direction in)
- 860/ORDCHG, Purchase Order Change (direction out)
- 865, Purchase Order Change Acknowledgment (direction in) (optional)
- 856/DESADV, Advanced Shipping Notice (Standard) (direction in)
- 810/INVOIC, Invoice (direction in)

Figures 3-5 through 3-9 show examples of the Maintain EDI Messages Supported by Relations (tcedi0111m000) session for each of these messages.

### 3 Setting up your company

The screenshot shows a software window titled "tcedi0111m000 : Maintain EDI Messages Supported by Relations [653]". The window has a menu bar with "File", "Edit", "Group", "Options", "Order", "Tools", "Special", and "Help". Below the menu bar is a toolbar with various icons for navigation and editing. The main area is a form with two tabs, "Form 1" and "Form 2", with "Form 2" selected. The form contains the following fields and values:

Relation	2003	Helen's Test Supplier
Organization	X12	ANSI X12
EDI Message	855	X12 Order Acknowledgment
Direction	In	
Order Type	NE	Normal Order
Type of Number		
Network	XT-NET	External Trade Network
Conversion Setup	855.U	PO Acknowledgment (Update In)
Person Responsible	bsp	General_User
Block	No	
Print	Yes	
Incoming Message		
Processing Type	Automatic	

At the bottom right of the form, there is a "modify" button.

Figure 3-5 855/ORDRSP, Purchase Order Acknowledgment, Direction In



tcedi0111m000 : Maintain EDI Messages Supported by Relations [653]

File Edit Group Options Order Tools Special Help

Form 1 Form 2

Relation 2003 Helen's Test Supplier

Organization X12 ANSI X12

EDI Message 860 X12 Purchase Order Change

Direction Out

Order Type ME Normal Order

Type of Number Purchase Order

Network XT-NET External Trade Network

Conversion Setup 860 Purchase Order Change (Out)

Person Responsible bsp General\_User

Block

Print Yes

Incoming Message

Processing Type

Figure 3-6 860/ORDCHG, Purchase Order Change, Direction Out

### 3 Setting up your company

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tcedi0111m000 : Maintain EDI Messages Supported by Relations [653]

File Edit Group Options Order Tools Special Help

Form 2

Relation	2003	Helen's Test Supplier
Organization	X12	ANSI X12
EDI Message	865	X12 Order Change Acknowledgmt
Direction	In	
Order Type	ME	Normal Order
Type of Number		
Network	XT-NET	External Trade Network
Conversion Setup	865.U	PO Acknowledgment (Update In)
Person Responsible	bsp	General_User
Block	No	
Print	Yes	
Incoming Message		
Processing Type	Automatic	

*Figure 3-7 865, Purchase Order Change Acknowledgment, Direction In*

tcedi0111m000 : Maintain EDI Messages Supported by Relations [653]

File Edit Group Options Order Tools Special Help

Form 2

Relation	2003	Helen's Test Supplier
Organization	X12	ANSI X12
EDI Message	856	X12 Advance Shipment Notice
Direction	In	
Order Type	ME	Normal Order
Type of Number	Receipt	
Network	XT-NET	External Trade Network
Conversion Setup	856	Advanced Shipment Notice (In)
Person Responsible	bsp	General_User
Block	No	
Print	Yes	
Incoming Message		
Processing Type	Automatic	

Figure 3-8 856/DESADV, Advanced Shipping Notice, Direction In

The screenshot shows a software window titled "tcedi0111m000 : Maintain EDI Messages Supported by Relations [653]". The window contains a menu bar (File, Edit, Group, Options, Order, Tools, Special, Help) and a toolbar with various icons. Below the toolbar is a form titled "Form 2" with the following fields and values:

Relation	2003	Helen's Test Supplier
Organization	X12	ANSI X12
EDI Message	810	X12 Invoice
Direction	In	
Order Type	NE	Normal Order
Type of Number	Purchase Invoice	
Network	XT-NET	External Trade Network
Conversion Setup	810	Invoice (In)
Person Responsible	bsp	General_User
Block	No	
Print	Yes	
Incoming Message		
Processing Type	Automatic	

Figure 3-9 810/INVOIC, Invoice, Direction In

## Sales company

Your company is defined as a selling entity. This means that selling activities are pursued within this company. The selling activities may be classified as internal only (multisite), external only, or both.

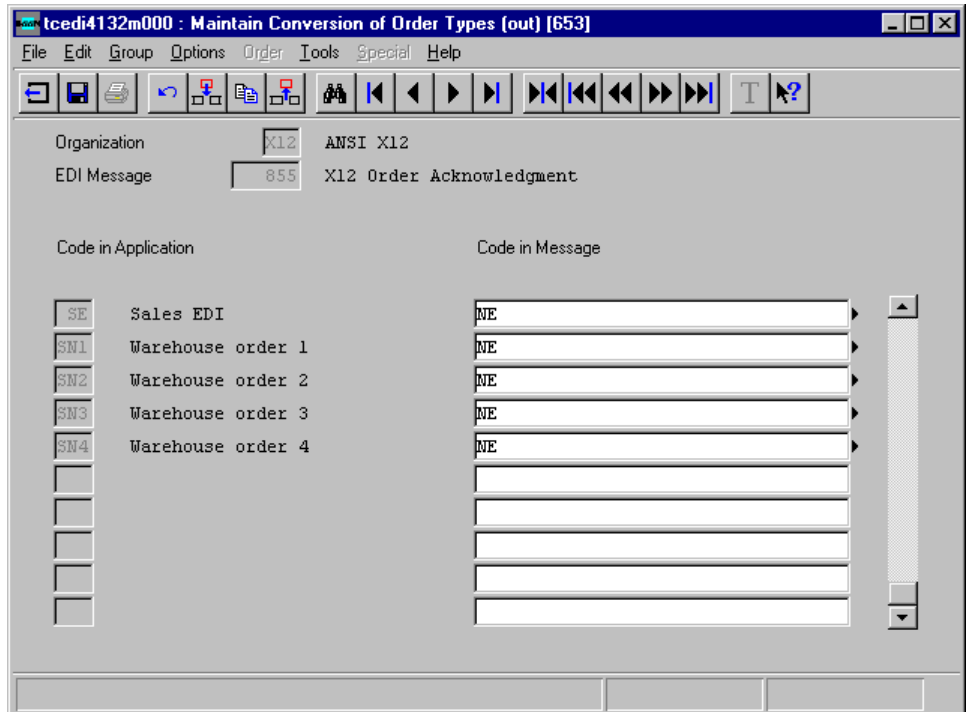
This section describes the specific setup requirements for creating the purchasing EDI relations (customers) in your company.

## Outgoing conversions

In the previous section, you ensured that all purchase order types (for example, PN1 and PN2) were converted to a corresponding code in the EDI message that enables these purchase order types to be sent through EDI.

In this section, you will define how to exchange documents with a buyer. You will specify how to handle outgoing conversion for order acknowledgment, packing slips, and invoices.

These are the current outgoing messages supported by BAAN EDI for which conversion of order types (out) must be defined with the Maintain Conversion of Order Types (Out) (tcedi4132m000) session.



*Figure 3-10 Maintain Conversion of Order Types (out) (tcedi4132m000) session*

As stated previously, the conversion of order types for incoming messages is handled differently.

When a customer purchase order is received as a sales order, the sales order type assigned to the order is determined by the specified code in the EDI Messages Supported by Relation (tcedi0111m000) session. Theoretically, this could be any of the existing sales order types.

Remember that conversion tables allow you to define the relationship between codes in an EDI message and the codes used in the BAAN application.

For example, unit of measure codes are usually unique to a company. However, you may need to conform to a specific unit of measure convention based on your trading relationship.

If you must translate your internal pcs unit of measure code to a standard unit *each*, you would use the conversion code table for units to handle the automatic conversion for you.

Remember, conversion tables only need to be filled when a particular code needs to be converted from an internal value maintained within the BAAN application to one that is used externally. If both parties use the same codes for items and warehouses, for example, conversion of the codes is not necessary.

**NOTE**

The Conversion Table for Order Types (Out) must be filled because it not only specifies the correct conversion of codes, but also determines which BAAN sales order types can be sent through EDI for acknowledgments, packing slips, or invoices.

When you create the conversion table for order types (out), be sure to list all valid order types you wish to send through EDI along with the corresponding code in the message as specified in the code tables.

In the following example, the Code in Application field represents the order type on the BAAN sales order change acknowledgment document; the Code in Message field represents the external value. The code in message is the value to which the code in application will be converted and which will reside in the exported message when the order acknowledgment is exported through BAAN EDI. The code in message must first be defined as an order type in the code tables and may be used to represent the order types used by the EDI standard you are using.

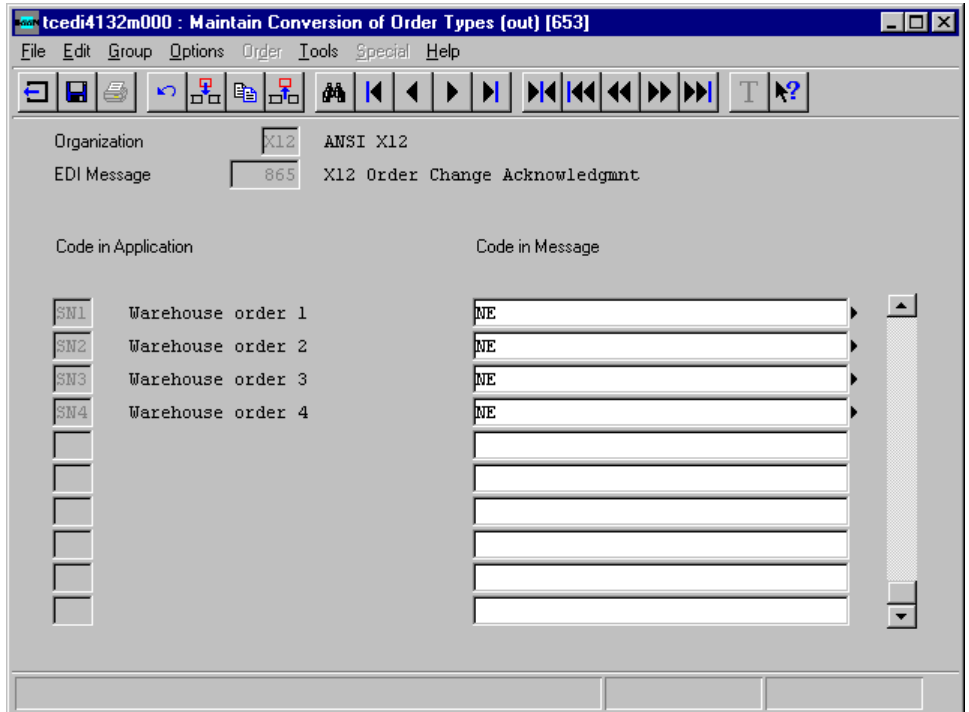


Figure 3-11 Conversion of Order Types for 865

### 3 Setting up your company

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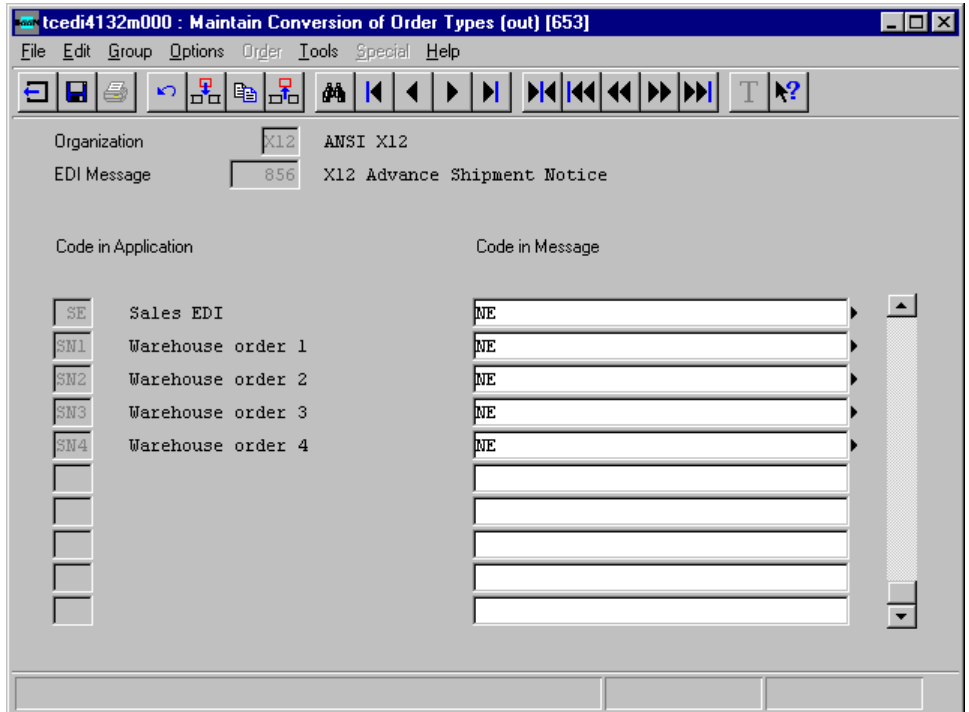


Figure 3-12 Conversion of Order Types for 856/DESADV



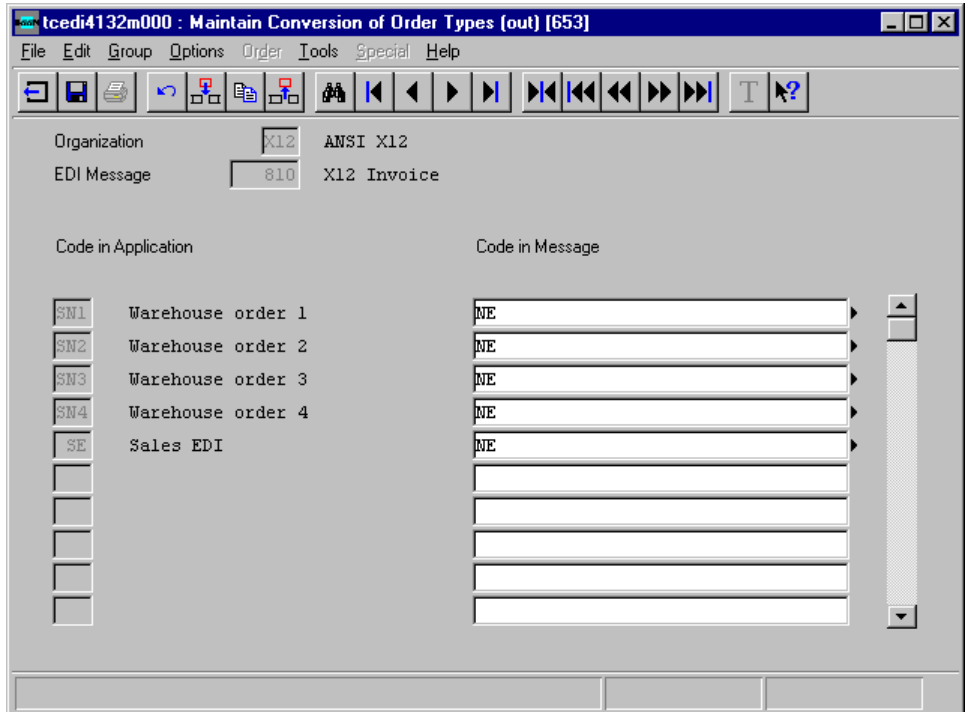


Figure 3-13 Conversion of Order Types for 810/INVOIC

**NOTE**

There is no conversion table for incoming order types. The cross-reference (conversion) of the external order type received to a valid internal order type is handled in the EDI Messages Supported by Relation (tcedi0111m000) session.

## EDI messages supported by relation

After completing the general setup steps, your next step in the setup of your company is to determine what individual EDI messages you will exchange with your customer. Not every relation will necessarily support each implemented message type. Use the Maintain EDI Messages Supported by Relations (tcedi0111m000) session to identify the valid messages you can transmit to or receive from a specific relation. You can also define additional information that could vary by relation. For example, there can be slight differences in the structure (field mapping or conversion setup) of a message between relations; and you might find it desirable to use different conversion setups (file layouts) for different order types.

### 3 Setting up your company

The screenshot shows a software window titled "tcedi0111m000 : Maintain EDI Messages Supported by Relations [653]". The window has a menu bar with "File", "Edit", "Group", "Options", "Order", "Tools", "Special", and "Help". Below the menu bar is a toolbar with various icons for file operations and navigation. The main area contains a form with the following fields:

Relation	2002	Drew Inc.
Organization	X12	ANSI X12
EDI Message	850	X12 Purchase Order
Direction	In	
Order Type	NE	Normal Order
Type of Number	Sales Order	
Network	XT-NET	External Trade Network
Conversion Setup	850	Sales Order (In)
Person Responsible	bsp	General_User
Block	No	
Print	Yes	
Incoming Message		
Processing Type	Automatic	

Figure 3-14 Maintain EDI Messages Supported by Relations (tcedi0111m000), form 1

<b>Explanation of fields</b>	
<b>Field</b>	<b>Explanation</b>
Relation	Enter the relation code for defining this EDI message.
Organization	The organization identifier for the set of messages you are using.
EDI Message	A valid EDI message code in the selected organization.
Direction	Choice of In or Out.
Order Type	Standard external order type (must be a valid code defined in the Order Type Code table).
Type of Number	Indicates the type of document. For incoming orders, it also determines what type of first free number will be used with the received document.
Network	This specifies the directory where the ASCII files containing the message data are read or written. Messages can be exchanged over different networks, based on the relation, organization, direction, message type, and order type combination.
Conversion Setup	This indicates which conversion setup is used. The conversion setup defines the layout of the ASCII file containing the message data. It contains information on the mapping of data elements between the BAAN application tables and the ASCII files. Although predefined conversion setups are available and may be imported from the Defaults.edi file, it is possible to create your own custom conversion setups.
Person Responsible	The person responsible for this relation/message type/order type combination. This is for information and reporting purposes only.
Block	Upon receipt of a purchase order through EDI, the resulting sales order can optionally be blocked for further processing,
Print	For outgoing messages, set this field to Yes to generate the outgoing message and create a hard copy of the document. For incoming messages, set this field to Yes to create a remarks report that a message of this type has been received.

<p>Incoming Message Processing Type</p>	<p>For incoming messages, identifies whether the message is processed automatically or interactively.</p> <p>If this field is Automatic, the message is read and processed during direct network communication.</p> <p>If this field is Interactive, the message is read and stored in the Saved Message to be Received table without any validation during direct network communication. Then, these messages can be modified, approved, and processed. See Chapter 5, Incoming message data, for additional information.</p>
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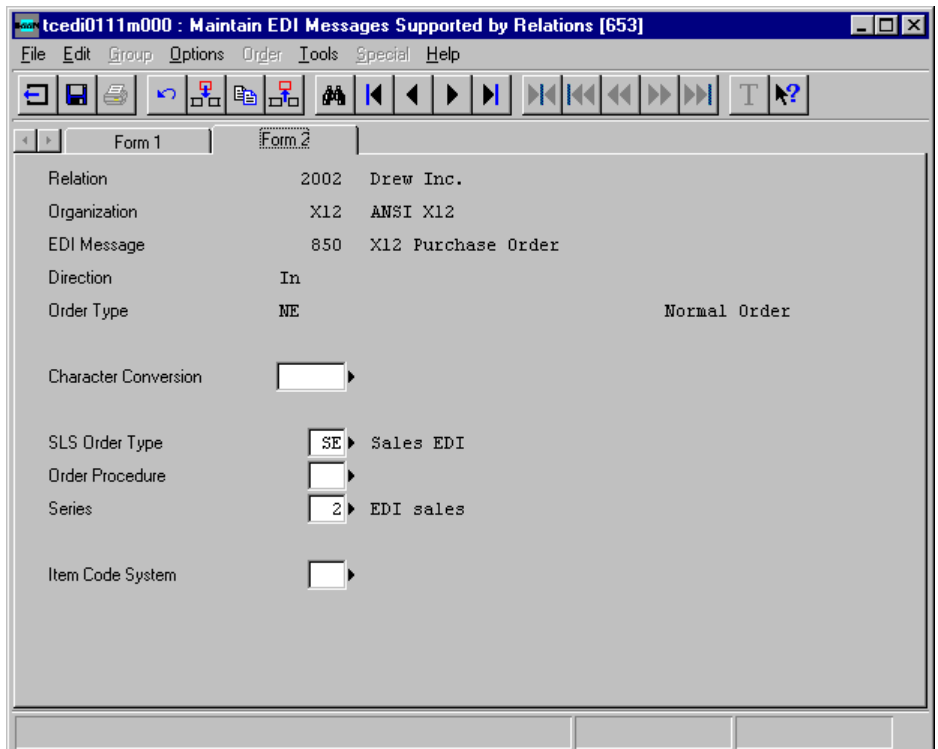


Figure 3-15 Maintain EDI Messages Supported by Relations (tcedi0111m000), form 2

<b>Explanation of fields</b>	
<b>Field</b>	<b>Explanation</b>
Character Conversion	For outgoing messages, you can define how to convert certain characters (for example, all characters to upper case). Multiple conversions of characters can be defined, each stored with a different identifier (character conversion code).
SLS Order Type	This field determines what sales order type is assigned to the order when an incoming purchase order is received.  This field is only used for incoming messages.
Order Procedure	This field determines what sales order procedure is assigned to the order when an incoming purchase order is received. This field is optional.  This field is only used for incoming messages.
Series	This field determines what first free number series is assigned to the order when an incoming purchase order is received.  This field is only used for incoming messages.
Item Code System	Used for incoming messages to determine if a specific item code system (for item code translations) is used. This field is optional.  This can be used to convert items based on the item code system instead of using the EDI item code conversion tables.

The information in this section focused on the message 850/ORDERS, Purchase Order (direction in). Other conversion setups used for a selling company that should be defined include:

- 855/ORDRSP, Purchase Order Acknowledgment (direction out)
- 860/ORDCHG, Purchase Order Change (direction in)
- 865, Purchase Order Change Acknowledgment (direction out), optional
- 856/DESADV, Advanced Shipping Notice (Standard) (direction out)
- 810/INVOIC, Invoice (direction out)

### 3 Setting up your company

tcedi0111m000 : Maintain EDI Messages Supported by Relations [653]

File Edit Group Options Order Tools Special Help

Form 2

Relation 2002 Drew Inc.

Organization X12 ANSI X12

EDI Message 855 X12 Order Acknowledgment

Direction Out

Order Type ME Normal Order

Type of Number

Network XT-NET External Trade Network

Conversion Setup 855 SO Acknowledgement (Out)

Person Responsible bsp General\_User

Block

Print Yes

Incoming Message

Processing Type

modify

*Figure 3-16 855/ORDRSP, Purchase Order Acknowledgment, Direction Out*

The screenshot shows a software window titled "tcedi0111m000 : Maintain EDI Messages Supported by Relations [653]". The window has a menu bar with "File", "Edit", "Group", "Options", "Order", "Tools", "Special", and "Help". Below the menu bar is a toolbar with various icons for file operations and navigation. The main area of the window is a form with the following fields:

Relation	2002	Drew Inc.
Organization	X12	ANSI X12
EDI Message	860	X12 Purchase Order Change
Direction	In	
Order Type	ME	Normal Order
Type of Number	Sales Order	
Network	XT-NET	External Trade Network
Conversion Setup	860	Sales Order Change (In)
Person Responsible	bsp	General_User
Block	No	
Print	Yes	
Incoming Message		
Processing Type	Automatic	

Figure 3-17 860/ORDCHG, Purchase Order Change, Direction In, form 1

### 3 Setting up your company

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The screenshot shows a software window titled "tcedi0111m000 : Maintain EDI Messages Supported by Relations [653]". The window has a menu bar with "File", "Edit", "Group", "Options", "Order", "Tools", "Special", and "Help". Below the menu bar is a toolbar with various icons for file operations and navigation. The main area of the window is a form with two tabs: "Form 1" and "Form 2", with "Form 2" currently selected. The form contains the following fields and values:

Relation	2002	Drew Inc.
Organization	X12	ANSI X12
EDI Message	860	X12 Purchase Order Change
Direction	In	
Order Type	ME	Normal Order
Character Conversion	<input type="text"/>	
SLS Order Type	SE	Sales EDI
Order Procedure	<input type="text"/>	
Series	2	EDI sales
Item Code System	<input type="text"/>	

*Figure 3-18 860/ORDCHG, Purchase Order Change, Direction In, form 2*



The screenshot shows a SAP window titled "tcedi0111m000 : Maintain EDI Messages Supported by Relations [653]". The window contains a menu bar (File, Edit, Group, Options, Order, Tools, Special, Help) and a toolbar with various icons. Below the toolbar, there are two tabs: "Form 1" and "Form 2", with "Form 2" selected. The main area of the window is a form with the following fields and values:

Relation	2002	Drew Inc.
Organization	X12	ANSI X12
EDI Message	865	X12 Order Change Acknowledgmt
Direction	Out	
Order Type	ME	Normal Order
Type of Number		
Network	XT-NET	External Trade Network
Conversion Setup	865	S0 Change Acknowledgment (Out)
Person Responsible	bsp	General_User
Block		
Print	Yes	
Incoming Message		
Processing Type		

Figure 3-19 865, Purchase Order Change Acknowledgment, Direction Out

### 3 Setting up your company

tcedi0111m000 : Maintain EDI Messages Supported by Relations [653]

File Edit Group Options Order Tools Special Help

Form 1 Form 2

Relation 2002 Drew Inc.

Organization X12 ANSI X12

EDI Message 856 X12 Advance Shipment Notice

Direction Out

Order Type ME Normal Order

Type of Number Packing Slip Sales Order

Network XT-NET External Trade Network

Conversion Setup 856 Advanced Shipment Notice (Out)

Person Responsible bsp General\_User

Block

Print Yes

Incoming Message

Processing Type

*Figure 3-20 856/DESADV, Advanced Shipping Notice, Direction Out*

The screenshot shows a software window titled "tcedi0111m000 : Maintain EDI Messages Supported by Relations [653]". The window has a menu bar with "File", "Edit", "Group", "Options", "Order", "Tools", "Special", and "Help". Below the menu bar is a toolbar with various icons for file operations and navigation. The main area is a form titled "Form 2" with the following fields:

Relation	2002	Drew Inc.
Organization	X12	ANSI X12
EDI Message	810	X12 Invoice
Direction	Out	
Order Type	ME	Normal Order
Type of Number	Sales Invoice	
Network	XT-NET	External Trade Network
Conversion Setup	810	Invoice (Out)
Person Responsible	bsp	General_User
Block		
Print	Yes	
Incoming Message		
Processing Type		

Figure 3-21 810/INVOIC, Invoice, Direction Out



# 4 Running EDI

Now that you have completed the basic setup of BAAN EDI, you want to get BAAN EDI up and running. This section describes how to receive and generate the ASCII files exchanged with your communication/translation software using the sessions found on the Communication menu in the EDI module. Chapter 5, Incoming message data, describes message handling and error processing. Chapter 6, EDI procedure, explains the procedural steps required to exchange specific messages.

## Processing files

The Direct Network Communication (tcedi7205m000) session can be used to receive incoming EDI messages (to read the ASCII files received from your trading partner through your translation/communication software or directly from another internal BAAN company).

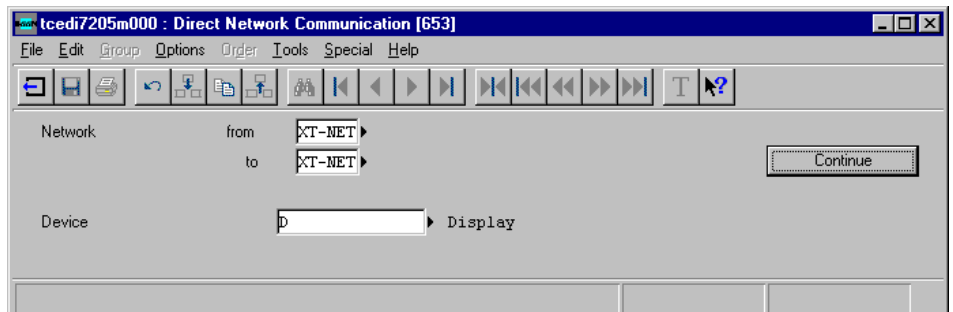
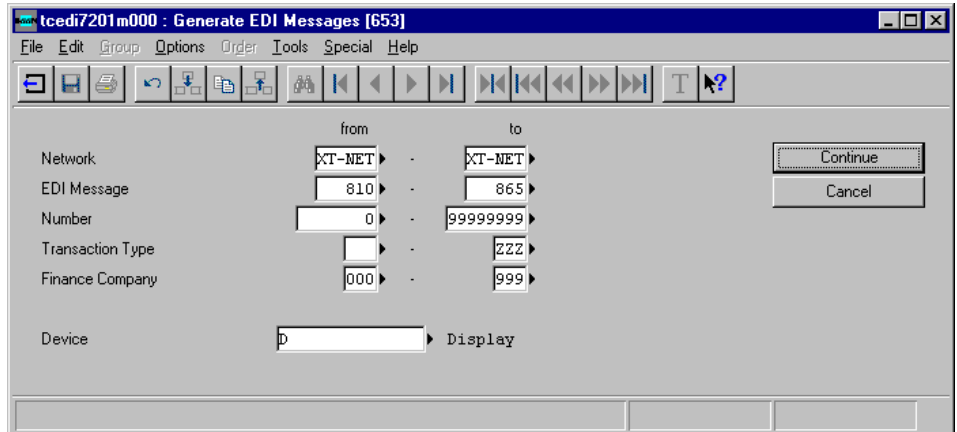


Figure 4-1 Direct Network Communication (tcedi7205m000) session

You can use the Generate EDI Messages (tcedi7201m000) session to generate outgoing EDI messages. This session creates the ASCII files that will be exported from the BAAN application by your translation/communication software for prepared documents (Chapter 6, EDI procedure, provides a full explanation of the steps required to prepare documents).



*Figure 4-2 Generate EDI Message (tcedi7201m000) session*

Alternatively, you can use the Direct Network Communication (tcedi7205m000) session to both receive and generate EDI messages. Setting the Generate Outgoing Messages before Connection field at the network (see Figure 2-7) to Yes will result in the Direct Network Communication (tcedi7205m000) session generating all outgoing messages (equivalent to running the Generate EDI Messages (tcedi7201m000) session) prior to reading incoming messages.

Although you can run these sessions to manually initiate the receipt or generation of EDI messages, you can also automate the process by using the EDI Interchange controller to initiate direct network communication via a schedule that you define.

## EDI interchange controller

The Job Management module in BAAN IV Tools handles the automation of EDI processing by creating a job that runs the Direct Network Communication (tcedi7205m000) session at a regular interval. However, this means that you must start several of these jobs when EDI messages for different networks must be generated at different intervals. So the status of the individual jobs cannot be displayed in one single screen which leads to the loss of job manageability.

To provide a more flexible way of determining intervals and provide a better overview of the communication status of the individual networks, the EDI module offers an Interchange controller. The rest of this section describes the setup and use of this controller.

## Controller setup

The first step is to determine which networks should have automated communication and at what time interval. Figure 4-3 shows how these connect frequencies (communication intervals) can be recorded. You can define as many frequencies as required. Each column represents a different frequency.

In this example, a single frequency is recorded for the External Trade Network. The active frequency runs on each workday of the year 1997 (5 days a week) through the end of December. The Direct Network Communication (tcedi7205m000) session is started multiple times each day beginning at 6:00 A.M. A new session is launched every 30 minutes (time interval) until 5:30 P.M. (17:30).

The screenshot shows a software window titled "tcedi0122m000 : Maintain Connect Frequencies by Network [653]". The window has a menu bar with "File", "Edit", "Group", "Options", "Order", "Tools", "Special", and "Help". Below the menu bar is a toolbar with various icons for navigation and editing. The main area of the window is a form for configuring a network connection. The "Network" field is set to "EXT-NET" and "External Trade Network". The "Status" is set to "Active". The "Date" range is from "01-01-1997" to "12-31-1997". The "Day" range is from "Monday" to "Friday". The "Time" range is from "06:00" to "17:30". The "Interval" is set to "30" minutes. There are three empty columns to the right of the form, likely for defining multiple frequencies.

Figure 4-3 Maintain Connect Frequencies by Network (tcedi0122m000) session

You can generate a list of individual connect times (the moments that communication must be activated) per network that are based on the frequencies. Instead of having to maintain the next connect time with the Maintain Connect Times by Network (tcedi0125m000) session, BAAN can calculate the connect times for you by using the data defined in the Maintain Connect Frequencies by Network (tcedi0122m000) session.

The individual connect times are generated with the Generate Connect Times by Network (tcedi0225m000) session.

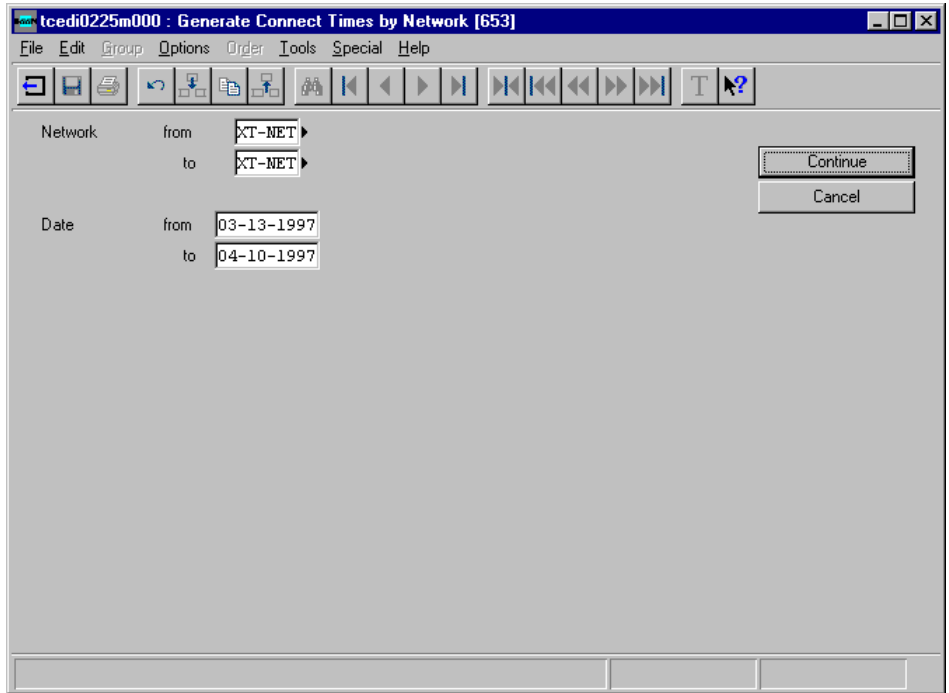
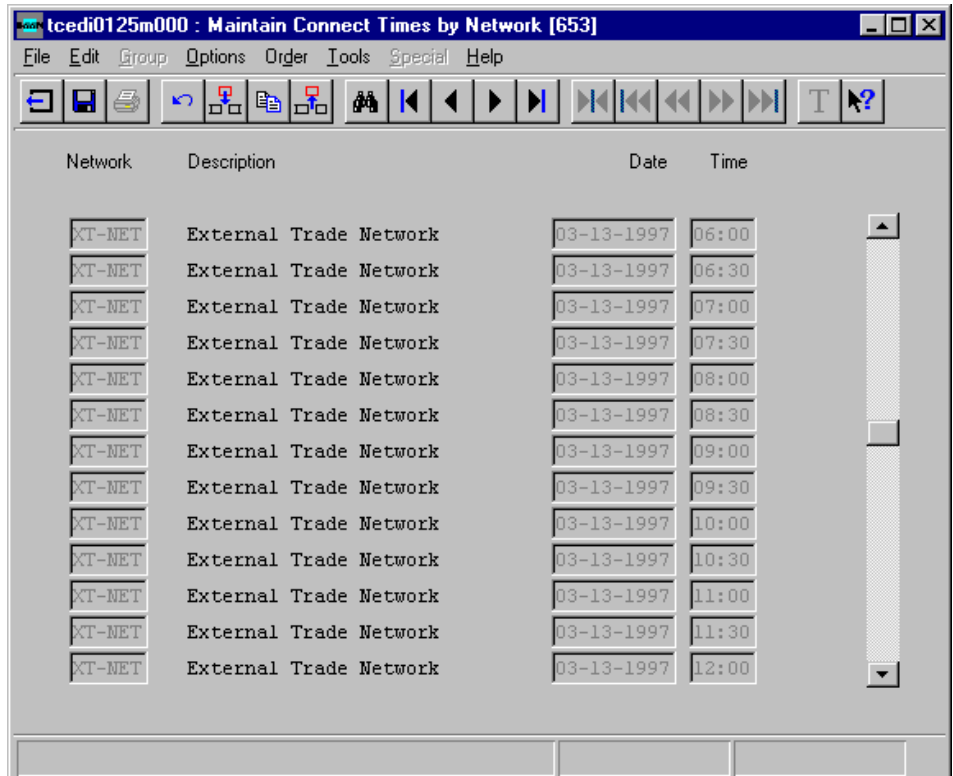


Figure 4-4 Generate Connect Times by Network (tcedi0225m000) session



The result can be displayed or modified with the Maintain Connect Times by Network (tcedi0125m000) session. Notice that the specified frequency indeed results in two connect times each 30 minutes beginning at 6:00 A.M.



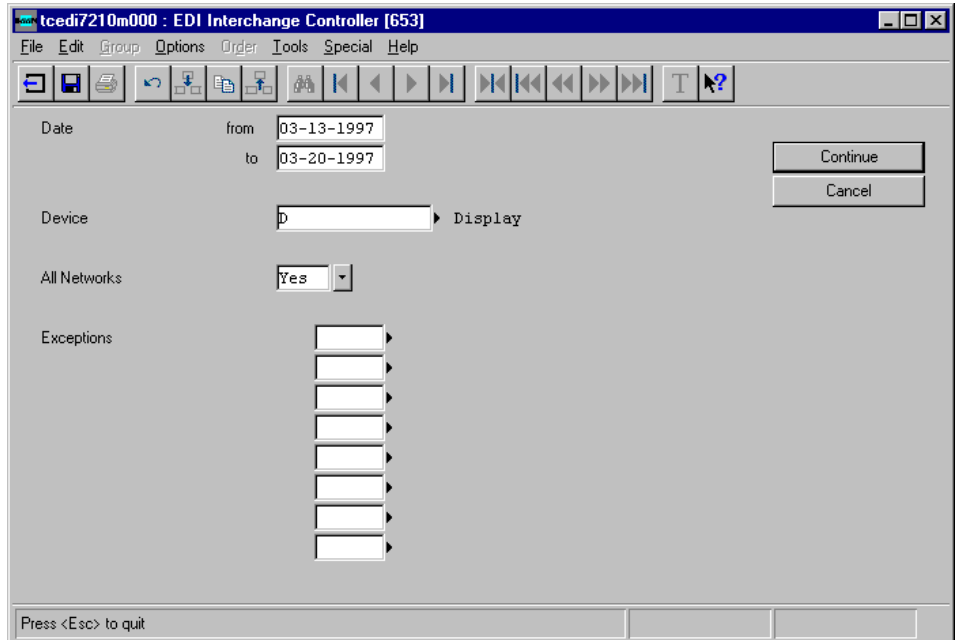
The screenshot shows a window titled "tcedi0125m000 : Maintain Connect Times by Network [653]". The window has a menu bar with "File", "Edit", "Group", "Options", "Order", "Tools", "Special", and "Help". Below the menu bar is a toolbar with various icons for navigation and editing. The main area contains a table with the following data:

Network	Description	Date	Time
XT-NET	External Trade Network	03-13-1997	06:00
XT-NET	External Trade Network	03-13-1997	06:30
XT-NET	External Trade Network	03-13-1997	07:00
XT-NET	External Trade Network	03-13-1997	07:30
XT-NET	External Trade Network	03-13-1997	08:00
XT-NET	External Trade Network	03-13-1997	08:30
XT-NET	External Trade Network	03-13-1997	09:00
XT-NET	External Trade Network	03-13-1997	09:30
XT-NET	External Trade Network	03-13-1997	10:00
XT-NET	External Trade Network	03-13-1997	10:30
XT-NET	External Trade Network	03-13-1997	11:00
XT-NET	External Trade Network	03-13-1997	11:30
XT-NET	External Trade Network	03-13-1997	12:00

Figure 4-5 Maintain Connect Times by Network (tcedi0125m000) session

## Using the interchange controller

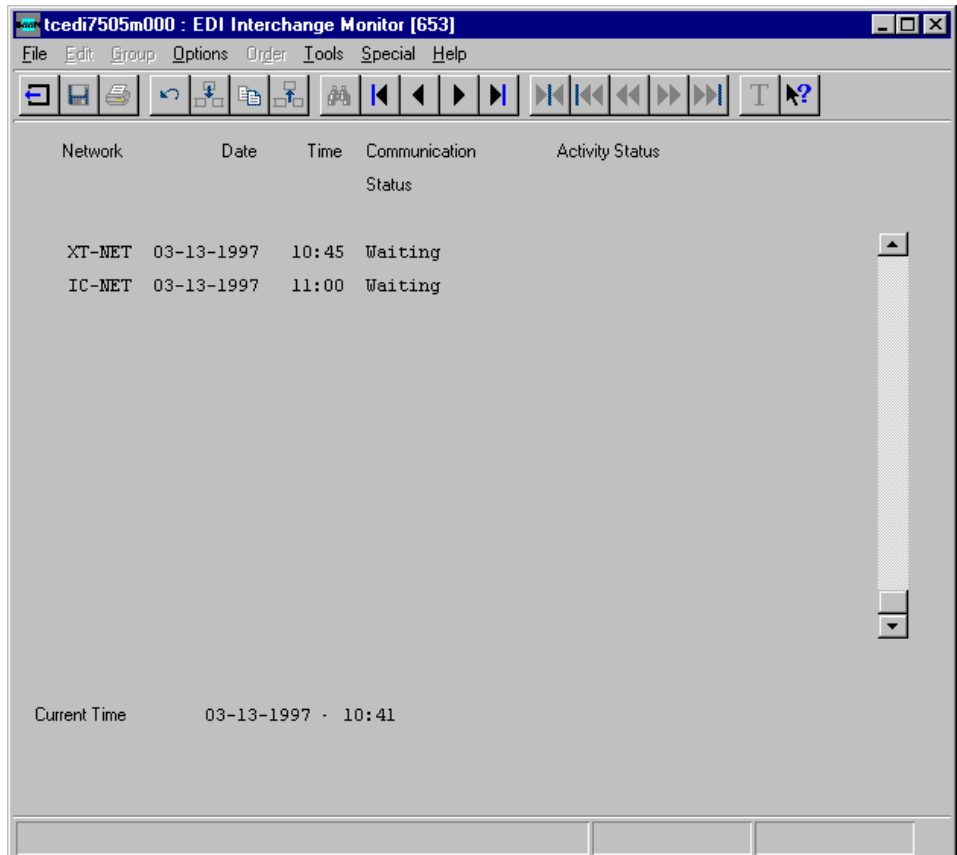
Based on the generated or manually entered connect times, the interchange controller will start the Direct Network Communication (tcedi7205m000) session for the appropriate network at regular intervals. The interchange controller is activated as a background process. After making the desired selections, click Continue and let the session run in the background.



*Figure 4-6 EDI Interchange Controller (tcedi7210m000) session*

The interchange controller can be activated for all networks, or exclude individual networks. The controller is deactivated by pressing ESC.

With the active controller running in the background, the interchange monitor can be used to check the communication status of the individual networks. Unlike Job Management in BAAN IV Tools, the pending jobs (connect times) of all networks are displayed in a single screen. The interchange monitor will only show the pending jobs for the current day. After a job is finished it is removed from the list.



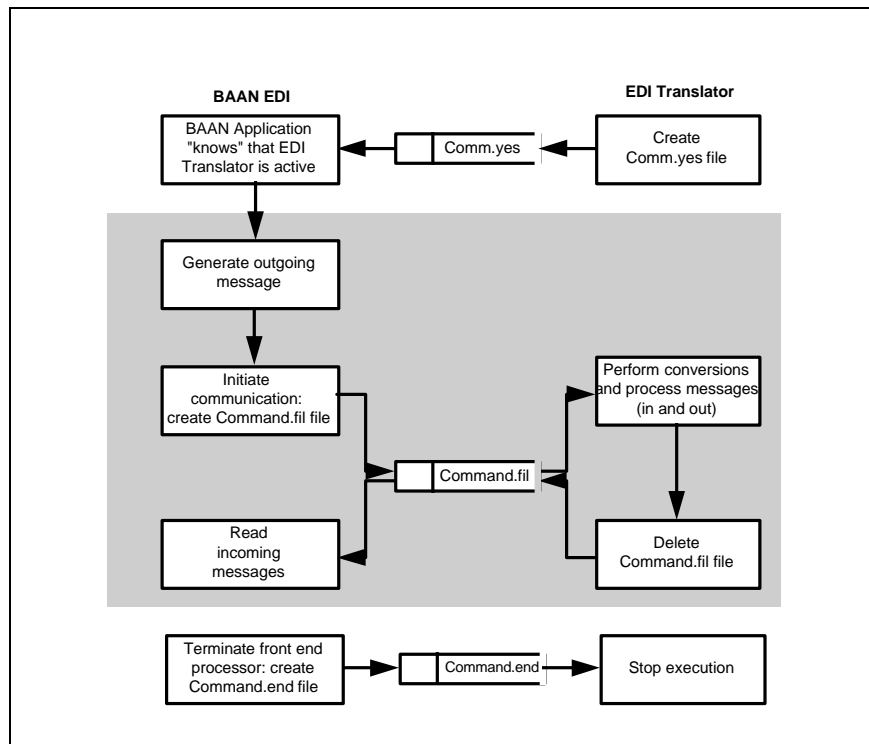
*Figure 4-7 EDI Interchange Monitor (tcedi7505m000) session*

When a connect time for one of the networks is reached, the Direct Network Communication (tcedi7205m000) session is started for that network. The interchange monitor will show which networks are active when the monitor is started (the Communication Status will be Active), and what particular activity is currently performed by the network (displayed under the Activity Status).

## External EDI network communication

Whenever the interchange controller initiates the Direct Network Communication (tcedi7205m000) session, it uses semaphores to indicate to the external software/communication software that it is currently processing messages. The semaphore mechanism uses empty files in the command directory of the network to indicate that a certain process is active or is ready for activation. This mechanism ensures that BAAN EDI and the communication/translation software do not try to simultaneously access the same files in the same directory.

Figure 4-8 illustrates the use of semaphores during a direct network communication if you are not suppressing standard communication for the network.



*Figure 4-8 Semaphores*

When the translation/communication software (translator) becomes active, it creates a file called `Comm.yes` in the command directory. This lets BAAN EDI know that a translator is active (but not necessarily processing).

If the external EDI network is set up to generate EDI messages in addition to importing messages during direct network communication, BAAN EDI will generate outgoing messages first, then create a file called Command.fil in the command directory when it has completed generating the outgoing messages. If the process is not generating outgoing messages, it will create the Command.fil file upon activation of direct network communication. The existence of the Command.fil file lets the translation/communication software know that BAAN EDI is finished processing and that the translation/communication software is free to begin processing.

The translation/communication software reads any messages created by BAAN EDI and generates any messages received from external trading partners. Once it has completed processing, it deletes the Command.fil file from the command directory. The lack of the Command.fil file lets BAAN EDI know that the translation/communication software has completed its processing, and that BAAN EDI is free to begin reading incoming messages.

Finally, you may run the Terminate Front-End EDI Processor (tcedi0249m000) session within the EDI module, to terminate communication to your translation/communication software. This session creates a file called Command.end in the command directory. The existence of this file may be used to terminate the translation/communication software.

To use this semaphore mechanism provided by BAAN EDI, your translation/communication software must create/delete/check these semaphore files as indicated.

To avoid unnecessary allocation of CPU resources during the create/delete/check process before semaphores have been removed, the interchange controller within BAAN EDI and the scheduling mechanism within the translation/communication software should be activated at sequenced, staggered intervals, such as the following:

	<b>BAAN application company</b>	<b>Translation/communication software</b>
<b>Connect times</b>	06:00	08:00
	12:00	14:00
	18:00	20:00



# 5 Incoming message data

## Processing interactive messages

Inbound messages can be processed interactively or automatically (see EDI messages supported by relation in Chapter 3).

If messages are set up as interactive, running the Direct Network Communication (tcedi7205m000) session will result in the message being stored directly in the Saved Messages to Be Received (tcedi750) table, without validation. This allows you to preview incoming messages before they are validated and before they update the BAAN application. Use the Maintain Messages to be Received (tcedi7150m000) session to view, modify, approve, and process these messages.

## Reprocessing messages with errors

When processing incoming messages, BAAN sometimes finds validation errors that prevent the message from being updated in the BAAN application. In this case, the entire message is stored in the Saved Messages to be Received table. Use the Maintain Messages to be Received (tcedi7150m000) session to view and correct data errors, approve, and reprocess the message.

The session flow for incoming messages processed with errors or processed interactively is shown in Figure 5-1:

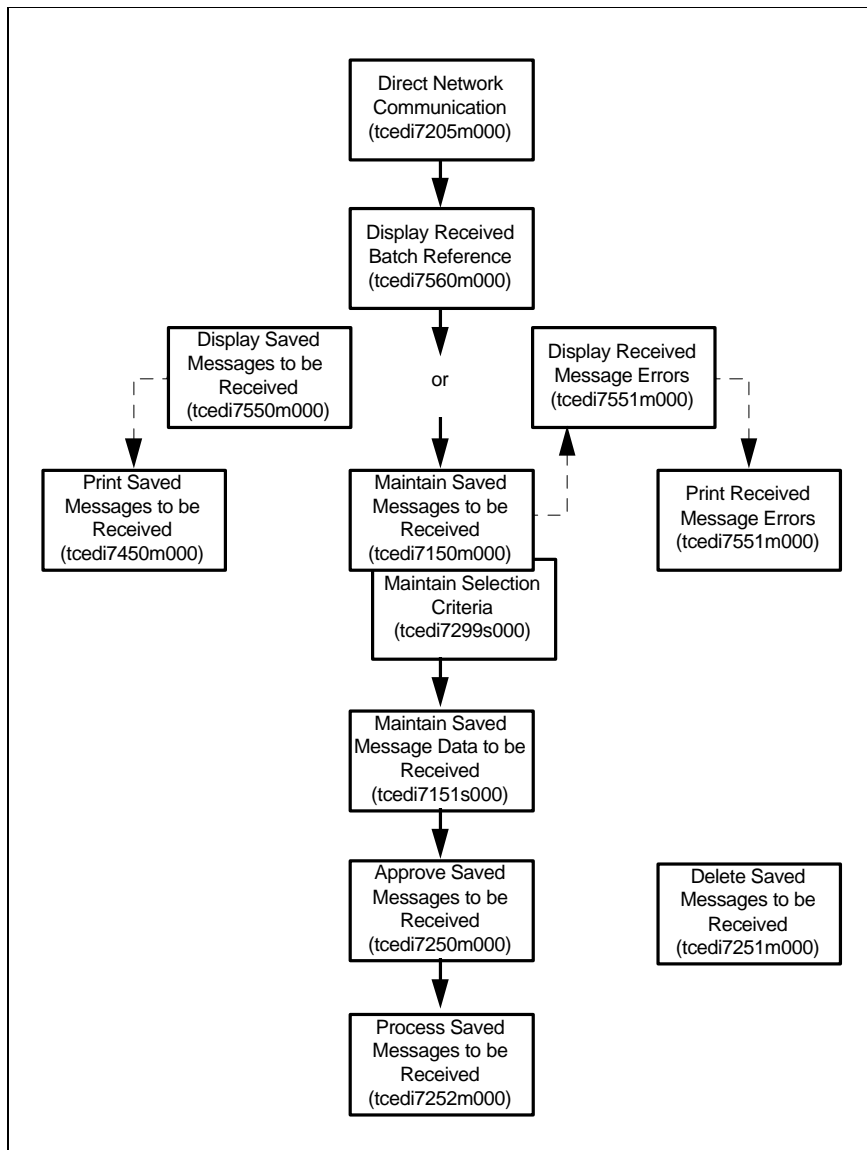


Figure 5-1 Message processing session flow



For each processing occurrence, a unique batch number is assigned for each network. The following session records all processed (successful or unsuccessful) incoming messages.

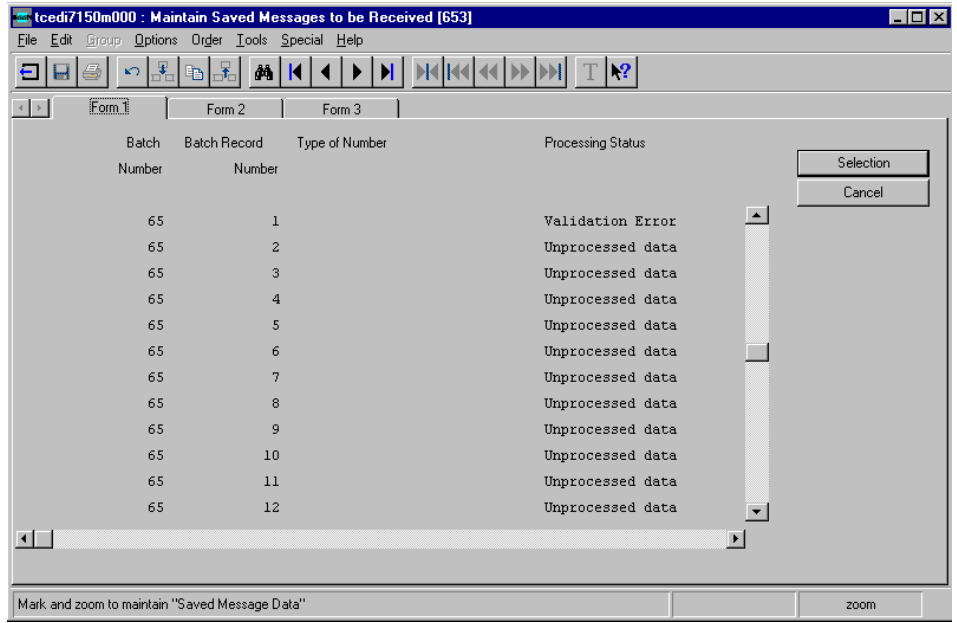
Batch Number: 74

Org	EDI Message	Network	Date Processed	Time Processed	Trace File Number	Store Receive Directory
X12	850	XT-NET	03-06-1997	10:46	266	970306-1046

*Figure 5-2 Display Batch Reference (tcedi7560m000) session*

## 5 Incoming message data

Use the following session to view and/or correct data for reprocessing. You can view interactive data or validation data.



*Figure 5-3 Maintain Saved Messages to be Received (tcedi7150m000) session*

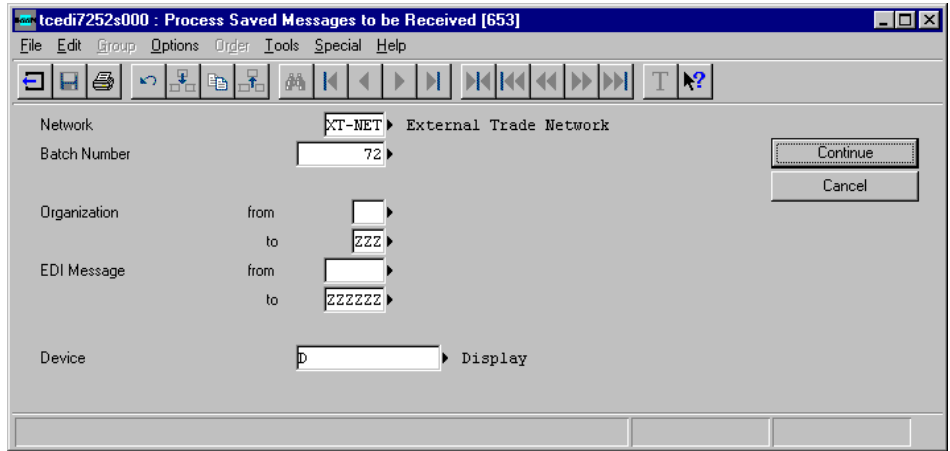
After selecting a record, use the following form to correct the message data in the selected record. The number of forms used depends on the number of fields in the record.

Figure 5-4 shows the first error/warning message. If additional error/warning messages exist for this record, the More Messages field is set to Yes, and you can zoom from this form to view all corresponding error/warning messages.

Field	Value	Description
Batch Number	65	
Level ID	68397012300001	Envelope
tcedi702.reno	653	Relation
tcedi702.msno	41	Order Reference
	654	
tcedi702.orga	X12	Organization
tcedi702.mess	850	EDI Message
tcedi702.koor	NE	Order Type
tcedi702.test		Test Message
tcedi702.send	970123	Date sent
tcedi702.sent	0859	Time sent
Error/Warning	RELATION 653 NOT FOUND (MESSAGE ABORTED)	
More Messages	No	

Figure 5-4 Maintain Saved Message Data to be Received (tcedi7151s000) session

After approving the messages with the Approve Saved Messages to be Received (tcedi7250m000) session, use the following session to reprocess them.



*Figure 5-5 Process Saved Messages to be Received (tcedi7252m000) session*

# 6 EDI procedure (standard plus GLO)

This section explains the procedural steps that should be completed for a full order cycle, using all supported EDI messages (except for the Remittance Advice). Note that this example assumes manually initiating direct network communication to both receive and generate messages, instead of using the interchange controller to automate this step.

## General procedures: purchasing company

If you are the purchasing company exchanging documents with your supplier, the following diagram and list explains the procedural steps that should be completed for a full purchasing cycle.

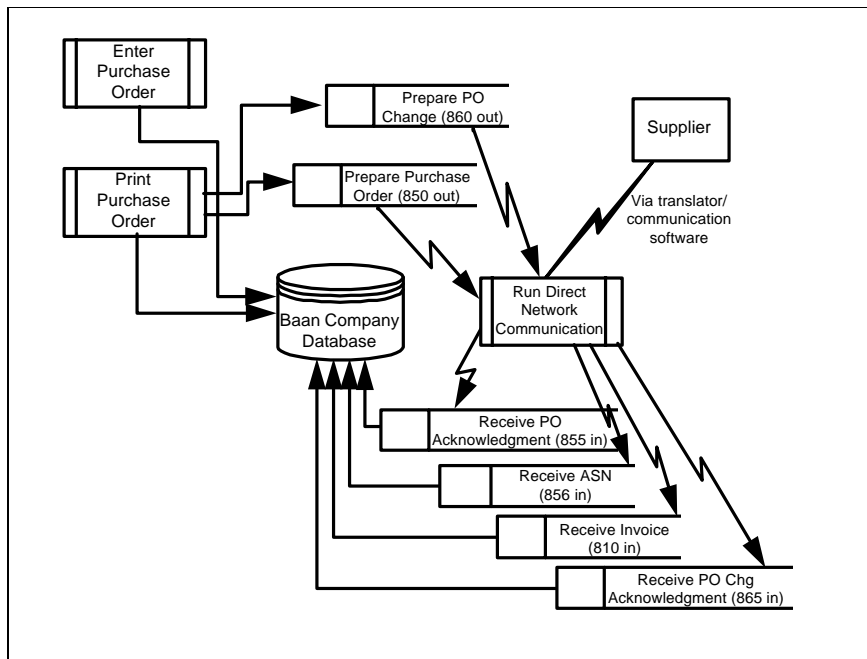


Figure 6-1 Purchasing EDI procedure

- Create and print a purchase order. Printing the purchase order will prepare the EDI message for transmission.
- Run the Direct Network Communication (tcedi7205m000) session to send the purchase order (850/ORDERS out) to your supplier.
- Optionally, maintain the purchase order and print changed lines. Run the Direct Network Communication (tcedi7205m000) session to send a Purchase Order Change to your supplier (available in IVb GLO and IVc).
- Optionally, run direct network communication to receive either a Purchase Order Change Acknowledgment (865 in) or a Purchase Order Acknowledgment (855/ORDRSP in) (the 865 is available in IVb GLO and IVc)
- Run direct network communication to receive the Purchase Order Acknowledgment (855/ORDRSP in), the Advance Ship Notice (856/DESADV in) and the Invoice (810/INVOIC in). Processing the incoming 856/DESADV creates an entry in the Dispatch Advice Interim Table that you can select and receive against in the Maintain Receipts (tdpur4120m000) session.

**For all outgoing messages:**

Messages will be prepared if the following conditions can be met:

- The supplier on the purchase order is linked to an EDI relation.
- The relation is linked to a network.
- The purchase order type is identified in the Conversion of Order Types (Out) (tcedi432) table.
- The EDI Messages Supported by Relation (tcedi011) table is filled for the combination: Relation, message, converted order type, and direction for the organization.
- The record in this table must specify the same network as the one linked to the relation.
- The record in this table must specify a conversion setup.

**For all incoming messages:**

The following conditions must be met (as explained in the setup sections of this document):

- The customer specified in the incoming file (message) is valid and is linked to an EDI relation.
- The relation is linked to a network.
- The sales order type specified in the file (if any) is present in the Order Types table.
- The EDI Messages Supported by Relation (tcedi011) table is filled for the combination: relation, message, specified order type and the direction, for the specified organization.
- The ASCII files must reside in the Appl\_to subdirectory in the directory specified for the Network in the EDI Messages Supported by Relation (tcedi011) table for this message type (850/ORDERS) and relation.
- The record in EDI Messages Supported by Relation (tcedi011) table must specify a conversion setup.
- The ASCII file Command.fil must be removed from the command directory if you are not suppressing standard communication and if the relation is an external EDI trading partner.

## General procedures: selling company

If you are the selling company, the following diagram and list explains the procedural steps that should be completed for a full sales cycle.

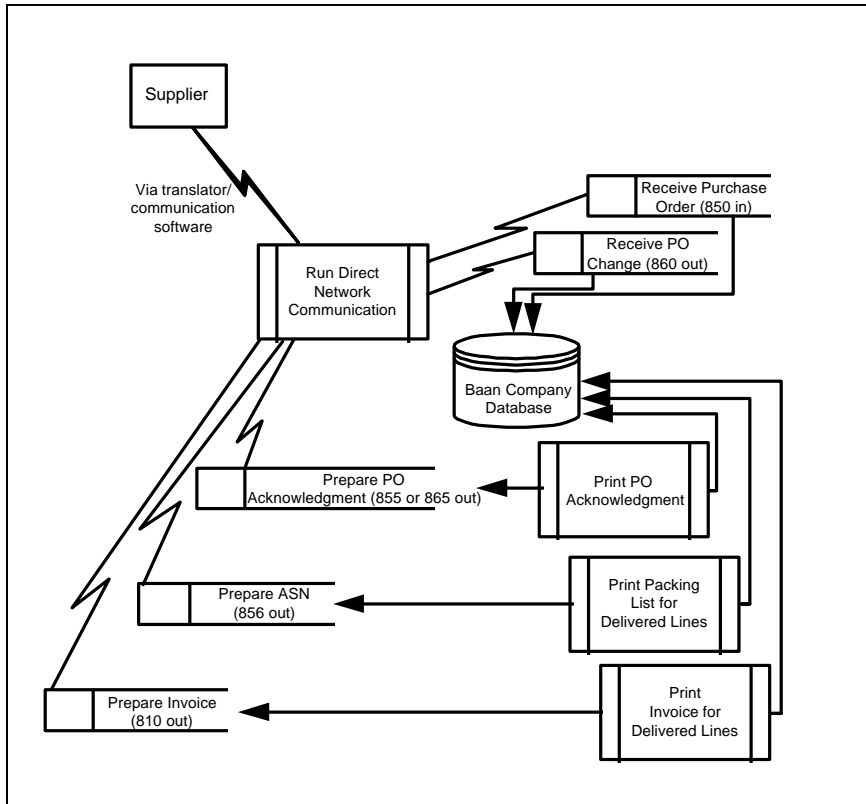


Figure 6-2 Selling EDI procedure



- Run direct network communication to receive the customer purchase order (850/ORDERS in). This will create a sales order in your BAAN company.
- Evaluate sales order and print the order acknowledgment. This will prepare the outgoing Order Acknowledgment (855/ORDRSP out) for transmission.
- Run direct network communication to send the order acknowledgment (855/ORDRSP out) to your customer.
- Optionally, run direct network communication to receive a Purchase Order Change (860/ORDCHG in) (available in IVb GLO and IVc).
- Optionally, run direct network communication to send either a Purchase Order Change Acknowledgment (865 out) or a Purchase Order Acknowledgment (855/ORDRSP out) for any subsequently changed or new lines you want to convey to your supplier (the 865 is available in IVb GLO and IVc).
- Maintain deliveries. Print packing slip. This will prepare the Advance Ship Notice (856/DESADV out) for transmission.
- Run direct network communication to send the Advance Ship Notice (856/DESADV out) to your customer.
- Print the sales invoice. This will prepare the Invoice (810/INVOIC out) for transmission.
- Run direct network communication to send the Invoice (810/INVOIC out) to your customer.

The next sections walk you through an example in which each step is explained in more detail.

## The purchasing company

This section demonstrates the steps required to exchange EDI documents with your supplier. You are the purchasing company.

### Enter and print purchase order

Figure 6-3 shows the Print Purchase Order (tdpur4401m000) session. This session prepares the outgoing Purchase Order EDI message. When you run this session the system verifies that the order or orders should have EDI messages prepared and stored in the Messages to be Generated (tcedi700) table. If a message has been prepared successfully, a pop-up window will appear.

Enter Specific Orders		No
Supplier	from	2003
	to	2003
Purchase Order	from	71
	to	72
Finance Company	from	000
	to	999
Print Prices		Yes
Order Line Types to Print		All Lines
Quantity to Print		Ordered Quantity
Print Variant Option Descriptions		Yes
Delivery address per orderline. Y/N ?		Yes

Figure 6-3 Print Purchase Orders (tdpur4401m000) session

If any one of the conditions listed in General procedures: purchasing company in Chapter 6, is not met there will be no trigger; no message can be prepared. However, the hard copy of the purchase order will still be printed. This hard copy can also be printed when the previous conditions are met if the Print field is set to Yes in the Maintain EDI Messages Supported by Relation (tcedi0111m000) session.

Figure 6-4 shows that the remark EDI Copy is present on all purchase orders that are both printed and transmitted through EDI.

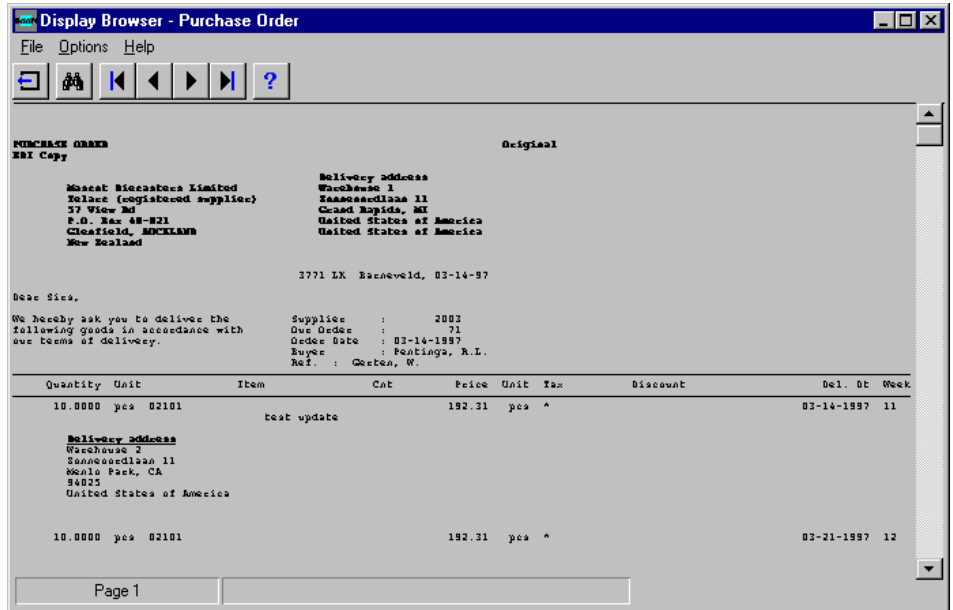


Figure 6-4 Purchase Order Output

## Sending the purchase order (850/ORDERS)

If you are not using the interchange controller to automate the process, you can manually generate the outgoing message in one of two ways.

The first method is to use the Generate EDI Messages (tcedi7201m000) session. This session will construct the outgoing messages that are:

- Eligible for transmission (present in tcedi700 table)
- Within the specified selection range

For external EDI relations, the messages are placed in the Appl\_from directory in the directory defined for the network specified for the Message by Relation. See Processing files in Chapter 4.

The second method is to run the Direct Network Communication (tcedi7205m000) session. This session generates any outgoing messages (if the network is set up to do so) and then reads in any incoming messages. See Processing files in Chapter 4.

The session displays the reference number, message and order number of the order that is currently processed. Notice that the reference number is built up as defined in the Maintain Networks (tcedi0120m000) session.

Both sessions generate a report to show which messages have been generated. This is the Remarks in Generated Messages (tcedi7601m000) report.

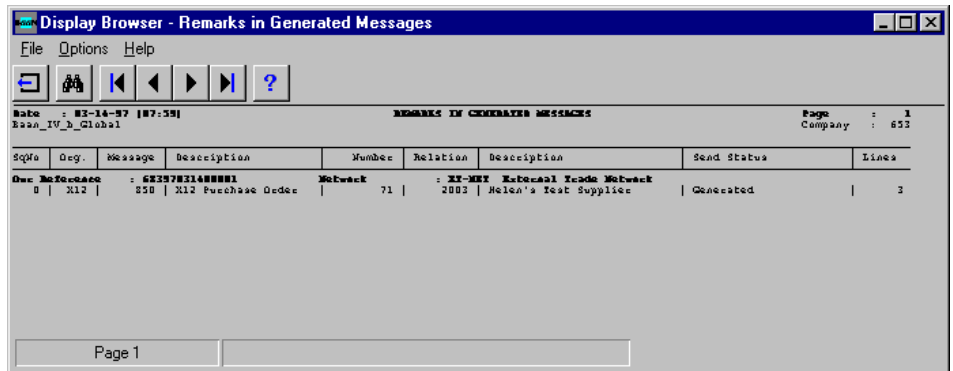


Figure 6-5 Remarks in Generated Messages (tcedi7601m000) report

## Receiving the order acknowledgment (855/ORDRSP)

Your supplier can send order acknowledgments after receiving your purchase order. You receive order acknowledgments as an 855/ORDRSP incoming transactions. Once the order acknowledgment is received, the ASCII files are translated from their standard format into the file format defined by your conversion setups, if external EDI and the resulting ASCII file is placed in the appropriate directory by the translation/communication software. You must run the Direct Network Communication (tcedi7205m000) session to receive the order acknowledgment.

You can set up the incoming order acknowledgment message to:

- Update the purchase order with any values specified on the acknowledgment that do not agree with the purchase order
- Report the differences only

This is defined within the conversion setups, on a field by field basis. In BAAN IV, there are two separate conversion setups for the 855/ORDRSP incoming. One is for comparison only (855,C); one is for update only (855,U). See Appendix A, Conversion setups, for more detailed information about the conversion setups.

In the output examples shown in Figures 6-6 and 6-7, the conversion setup was defined to update the purchase order with the value changes specified in the received acknowledgment. The discount of order line 30 was changed from 0% to 2%. On the acknowledgment, the Reference B field was filled with the additional order information. Last, the Confirmed Delivery Dates on the purchase order line were updated with the delivery date on the acknowledgment.

Order#	Pos.	Field	Old Value	New Value
71		Confirmed Delivery Date		04-03-1997
71		Reference B		Original Order
71		Currency	USD	USD
71	20	Confirmed Delivery Date		03-21-1997
71	30	Line Discount	0.00	2.00
71	30	Amount	3346.20	3768.28

Note : \* indicates a new orderline on the order response

Figure 6-6 Differences between purchase order and order response

Type of Number	Number	Line	Remarks
	20026	30	Note: inventory higher than maximum inventory
	20026	30	Note: inventory higher than maximum inventory

Figure 6-7 Remarks in copied messages

## Changing the purchase order (860/ORDCHG) IVb GLO only and IVc

If you are using VRC B40bGLO or IVc, you have the option of transmitting a Purchase Order Change transaction to your supplier to reflect any changes you have made to your purchase order.

To use this function, you must use change type codes in Purchase Control. Change type codes can be assigned to a purchase order; they are used to indicate the type of change that was last made against the order.

Change type codes must be assigned to new or changed order lines if the 850/ORDERS message for the order has already been generated and you want to transmit 860/ORDCHG for the changes via EDI.

This provides you with some flexibility because you can select what types of changes you transmit to your supplier.

**NOTE**

There is no way to directly transmit the cancellation of a purchase order line. To do this, you must change the order line quantity to zero and process the line as a change.

Before you print purchase orders to prepare the outgoing messages, you can run the Print Purchase Orders to be Printed (tdpur7403m000) session, which shows the purchase order lines that will be included and prepared when the next time you run the Print Purchase Order (tdpur4401m000) session. Use this report to ensure that change type codes have been assigned.

Figure 6-8 shows the Print Purchase Order (tdpur4401m000) session. This session prepares the outgoing Purchase Order Change EDI message for order lines that were assigned a change type code. When you run this session the system verifies that the order or orders should have EDI messages prepared and stored in the Messages to be Generated (tcedi700 and tcedi708) table. If a message has been prepared, the session will indicate that a message was successfully prepared with a pop-up message box.

When you are running this session for EDI purchase order changes, set the Order Line Types to Print field to Only Changed Lines, to include changed lines only, or Exclude Printed Lines, to include new lines added to the order since the order's last generation. This ensures that only new or changed lines, and their corresponding change type codes, are included in the message.

tdpur4401m000 : Print Purchase Orders [653]

File Edit Group Options Order Tools Special Help

Enter Specific Orders No

Supplier from [ ] to ZZZZZZ

Purchase Order from 71 to 71

Finance Company from 000 to 999

Print Prices Yes

Order Line Types to Print Only Changed Lines

Quantity to Print Ordered Quantity

Print Variant Option Descriptions Yes

Delivery address per orderline. Y/N ? Yes

Continue

Cancel

*Figure 6-8 Print Purchase Orders (tdpur4401m000) session*

If any one of the conditions listed in General procedures: purchasing company in Chapter 6, is not met there will be no trigger; that means no message can be prepared. However, the hard copy of the purchase order will still be printed. This hard copy can also be printed when the previous conditions are met if the Print field is Yes in the Maintain EDI Messages Supported by Relation (tcedi0111m000) session.

The remark EDI Copy is present on all purchase order changes that are both printed and transmitted through EDI.

## **Sending the purchase order change (860/ORDCHG) IVb GLO and IVc only**

If you are not using the interchange controller to automate the process, you can manually generate the outgoing message in one of two ways.

The first method is to use the Generate EDI Messages (tcedi7201m000) session. This session will construct the outgoing messages that are:

- Ready for transmission (present in table tcedi700)
- Within the specified selection range

For external EDI relations, the messages are placed in the Appl\_from directory in the directory defined for the network specified for the Message by Relation. See Processing files in Chapter 4.

The second method is to run the Direct Network Communication (tcedi7205m000) session. This session generates any outgoing messages (if the network is set up to do so) and then reads in any incoming messages. See Processing files in Chapter 4.

The session displays the reference number, message and order number of the order that is currently processed. Notice that the reference number is built up as defined in the Maintain Networks (tcedi0120m000) session.

Both of these sessions generate a report to show which messages have been generated. This is the Remarks in Generated Messages (tcedi7601m000) report.

### **Receiving the purchase order change acknowledgment (865) IVb GLO and IVc only**

You can receive order change acknowledgments from your supplier after he receives your purchase order change. An order change acknowledgment can be received as an 855/ORDRSP or an 865 incoming transaction. This depends on the value of the Change Order Response field for your relation and whether you are set up to receive messages in the Maintain EDI Messages Supported by Relations (tcedi0111m000) session. Once the order acknowledgment is received, the ASCII files are translated from their standard format into the file format defined by your conversion setups. The resulting ASCII file is placed in the appropriate directory by the translation/communication software. You need to run the Direct Network Communication (tcedi7205m000) session to receive in the order acknowledgment.

You can set up the incoming order acknowledgment message to:

- Update the purchase order with any values specified on the acknowledgment that do not agree with the purchase order
- Report the differences only

This is defined within the conversion setups, on a field by field basis. In BAAN IV, there are two separate conversion setups for the 865 incoming. One is for comparison only (865,C); one is for update only (865,U). See Appendix A, Conversion setups, for detailed information about conversion setups.



## Receiving the dispatch note (856/DESADV)

Executing the Direct Network Communication (tcedi7205m000) session will read in the incoming dispatch note (856/DESADV), when the ASCII files have been placed in the appropriate directory by your translation/communication software.

Notice the heading of the report shown in Figure 6-9: Interim Table Dispatch Advice. The received packing slip is stored in this table, against which receipts can be maintained with the Maintain Receipts (tdpur4120m000) session.

Display Browser - Interim Table Dispatch Advice

File Options Help

Date 03-14-97 18:44      INTERIM TABLE DISPATCH ADVICE      Page 1  
 Essn\_IV\_b\_Global      Company 653

Supplier : Mascat Biocasters Limited  
 Packing Slip Number :

Order Pos.	Item	Qty	Description	Rec. Date	Pack. Slip Qty	Back Order Qty	O.X.
71	02101		test update	03-14-1997	20.0000 lpcal	0.0000 lpcal	

Date 03-14-97 18:44      INTERIM TABLE DISPATCH ADVICE      Page 2  
 Essn\_IV\_b\_Global      Company 653

Supplier : JHEE Mascat Biocasters Limited  
 Packing Slip Number : 24

Order Pos.	Item	Qty	Description	Rec. Date	Pack. Slip Qty	Back Order Qty	O.X.
71	02101		test update	03-14-1997	10.0000 lpcal	0.0000 lpcal	

Page 1

Figure 6-9 Report of received and successfully read receipt note(s)

Figure 6-10 shows the form that is displayed after zooming on the Packing Slip field when maintaining the receipts for the purchase order with the Maintain Receipts (tdpur4120m000) session, based on the information from the dispatch note.

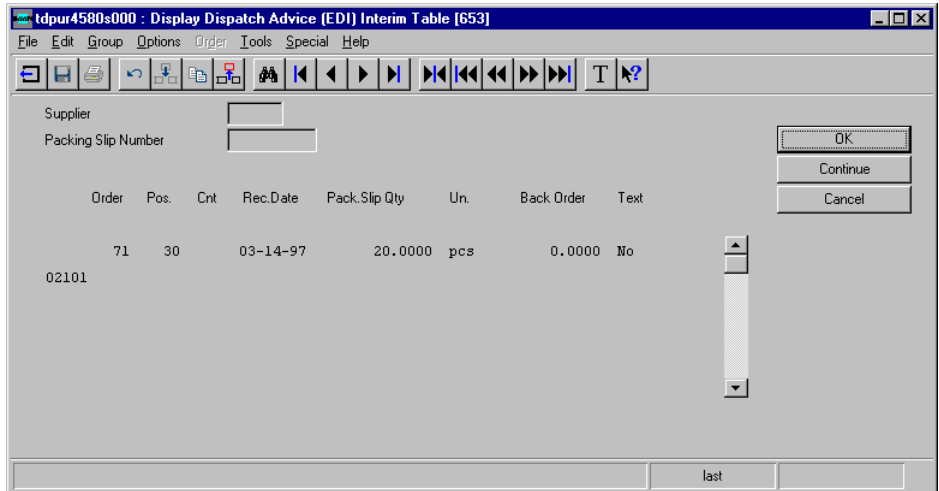


Figure 6-10 Receipt of goods based on received EDI dispatch note (ASN)

After marking the lines and clicking Continue, you transfer the quantities of the packing slip to the receipt lines, instead of the order line quantities. This will improve the accuracy of the receipts.

### Receiving the sales invoice (810/INVOIC)

Executing the Direct Network Communication (tcedi7205m000) session will read in the EDI messages (ASCII files) which reside in the appropriate directories. In addition to the following report, the Incoming EDI Purchase Invoices report is generated.

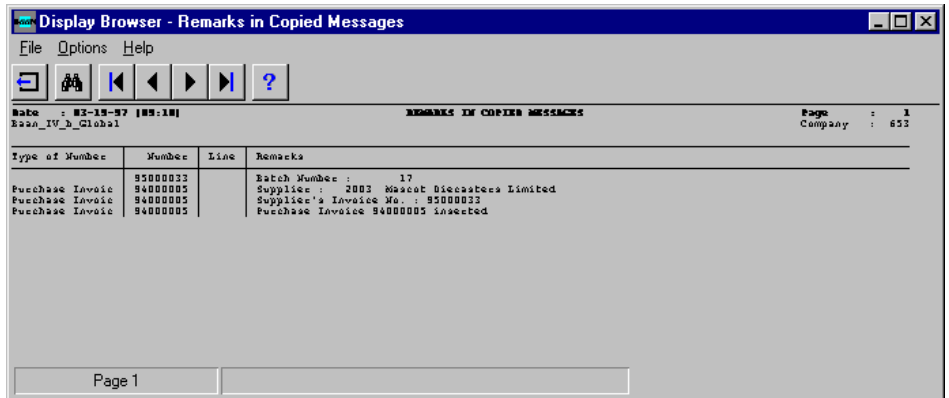


Figure 6-11 Report of received and successfully read invoice(s)

When the ordered goods are received in the purchasing company before the receipt of the invoice, the invoice will automatically be matched if goods have been received.

This concludes an example of a normal order cycle, using the EDI messages supported by BAAN EDI, when you are exchanging EDI documents with a supplier. However, the orders still need to be closed.

See EDI interchange controller in Chapter 4, for an explanation on how the execution of the Direct Network Communication (tcedi7205m000) session can be automated, so that you do not need to initiate this step unless immediate transfer is required.

## **The selling company**

This example illustrates the steps required to exchange EDI documents with a buyer when you are the supplier.

### **Receiving the sales order (850/ORDERS)**

Once you receive the customer purchase order (850/ORDERS) from your customer, and the ASCII files are translated from their standard format into the file format defined by your conversion setups and placed in the appropriate Appl\_to directory by the translation/communication software if an external EDI relation, use the Direct Network Communication (tcedi7205m000) session to receive in the order.

All conditions listed in General procedures; purchasing company in Chapter 6, must be met before the message can be read.

The Direct Network Communication (tcedi7205m000) session generates a report to show which messages have been successfully received:

Display Browser - Remarks in Copied Messages

File Options Help

Base : 83-14-77 [02:13] REMARKS IN COPIED MESSAGES Page : 1  
Base\_IV\_b\_Global Company : 632

Type of Number	Number	Line	Remarks
	71		Customer has overdue invoices
Sales Order	20026		Customer : 2002 New Inc.
Sales Order	20026		Sales Order 20026 inserted
Sales Order	20026	10	Item : 02101 test update
Sales Order	20026	10	Price : 192.31 ( 436.05)
Sales Order	20026	10	Sales Order 20026 position 10 inserted
Sales Order	20026	20	Item : 02101 test update
Sales Order	20026	20	Price : 192.31 ( 436.05)
Sales Order	20026	20	Sales Order 20026 position 20 inserted
Sales Order	20026	30	Item : 02101 test update
Sales Order	20026	30	Price : 192.31 ( 436.05)
Sales Order	20026	30	Sales Order 20026 position 30 inserted

Page 1

Figure 6-12 Report of received and successfully read orders

## Printing and sending the order acknowledgment (855/ORDRSP)

When running the Print Order Acknowledgments (tdsls4401m000) session, set the Order Line Types to Print field to *Only Changed Lines*, to include changed lines only, or *Exclude Printed Lines*, to include new lines only. Note that if your customer is set up to be Acknowledged by Exception in the Maintain Customers (tcom1101m000) session, only those order lines with an assigned acknowledgment code will be recognized as changed or new. These codes are assigned in the Maintain Sales Acknowledgment Code Assignments (tdsls7101m000) session.

As with all outgoing messages, printing the order acknowledgment with the Print Order Acknowledgment (tdsls4401m000) session prepares the document to be sent through EDI. See Enter and print purchase order in Chapter 6, for a detailed explanation of how the printing of outgoing documents corresponds to the generation of outgoing EDI messages.

Printing the order acknowledgment results in a hard copy of the acknowledgment (if enabled in the Maintain EDI Messages Supported by Relation (tcedi0111m000) session), and informs you of new EDI messages prepared.

tdsls4401m000 : Print Order Acknowledgements [653]

File Edit Group Options Order Tools Special Help

Enter Specific Orders No

Customer from to ZZZZZZ

Sales Order from 20026 to 20026

Finance Company from 0 to 999

Order Line Types to Print Excl. Printed Lines

Quantity to Print Ordered Quantity

Variant Option Descriptions Yes

Variant Sales Price Struct. Yes

Continue

Cancel

*Figure 6-13 Print Order Acknowledgments*

Once prepared, and if not using the interchange controller to automate the EDI processing of files, the actual transfer of the order can be achieved in two ways (as explained in The Purchasing company in Chapter 6). The first option is to use the Generate EDI Messages (tcedi7201m000) session. The other option is to run direct network communication, if the network is designated to generate messages during direct network communication.

As with the purchase order, a report is generated showing which EDI messages have been generated; if an external EDI relation, messages (ASCII files) are placed in the Appl\_from directory in the directory specified for the network, from which the translation/communication software will retrieve them. See Chapter 7, Internal (multisite) EDI, for information about generating messages for internal EDI relations.

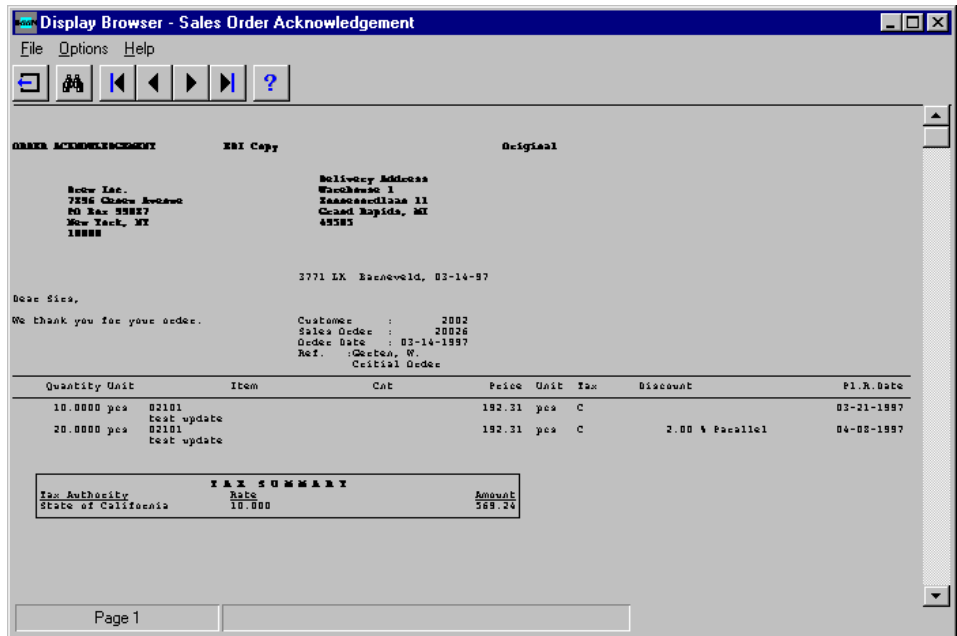


Figure 6-14 Sales Order Acknowledgment

## Receiving the sales order change (860/ORDCHG) IVb GLO and IVc only

Once the customer purchase order change (860/ORDCHG) is received from your customer, and the ASCII files are translated from their standard format into the file format defined by your conversion setups and placed in the appropriate directory by the translation/communication software, use the Direct Network Communication (tcedi7205m000) session to receive in the order.

The change type codes, passed in the incoming message that are validated against the change type codes defined in the Maintain Change Type Codes (tcms0157m000) session, govern the type of change action that will be processed (for example: add, change, delete, replace). If you are recording sales history (defined in the Maintain SLS Parameters (tdsls4100m000) session), the changes and change codes received/processed will be recorded in sales history.

If one of the conditions listed in General procedures: purchasing company in Chapter 6, is not met, the message will not be read.

The Direct Network Communication (tcedi7205m000) session generates a report to show which messages and changes have been successfully received:

Display Browser -

File Options Help

03-14-97 10:30 DIFFERENCES FOR CHANGED SALES ORDER Page 1  
 Esaa\_IV\_b\_Global Company : 652

Customer : 2002 New Inc.

Order	Pos.	Field	Old Value	New Value
20026	10	Ordered Quantity	10.00	15.00
20026	10	Price	192.31	105.26

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Figure 6-15 Report of received and successfully read orders

Display Browser - Remarks in Copied Messages

File Options Help

03-14-97 10:30 REMARKS IN COPIED MESSAGES Page : 1  
 Esaa\_IV\_b\_Global Company : 652

Type of Number	Number	Line	Remarks
Sales Order	20026	10	Customer : 2002 New Inc.
Sales Order	20026	10	Sales Order 20026 position 10 changed

Page 1

Figure 6-16 Remarks in Copied Messages

## Printing and sending the order change acknowledgment (865) IVb GLO and IVc only

When running the Print Order Acknowledgments (tdsls4401m000) session, you must set the Order Line Types to Print field to Only Changed Lines, to include changed lines only, or Exclude Printed Lines, to include new lines only. Note that if your customer is set up to be Acknowledged by Exception in the Maintain Customers (tccom1101m000) session, only those order lines with an assigned acknowledgment code will be recognized as changed or new. These codes are assigned in the Maintain Sales Acknowledgment Code Assignments (tdsls7101m000) session.

As with all outgoing messages, printing the order change acknowledgment prepares the document to be sent through EDI. See section 6 for a detailed explanation of how the printing of outgoing documents corresponds to the generation of outgoing EDI messages.

Printing the order acknowledgment results in a hard copy of the acknowledgment (if you have enabled this option in the Maintain EDI Messages Supported by Relation (tcedi0111m000) session, and informs you of new EDI messages prepared.

Once prepared, and if not using the interchange controller to automate the EDI processing of files, the actual transfer of the order can be achieved in two ways (as explained in The Purchasing company in Chapter 6). The first option is to use the Generate EDI Messages (tcedi7201m000) session. The other option is to run the Direct Network Communication (tcedi7205m000) session, if the network is designated to generate messages during direct network communication.

As with the purchase order, a report is generated showing which EDI messages have been generated; for external EDI, messages (ASCII files) are placed in the Appl\_from directory in the directory specified for the network, from which the translation/communication software will retrieve them.

### **Printing and sending the dispatch note (856/DESADV)**

Once the ordered goods are delivered, the packing slip can be printed with the Print Packing Slips (tdsls4403m000) session. The same logic applies for the printing of the packing slip as with the printing of the order and the acknowledgment. The print session informs you of new EDI messages prepared, and a hard copy of the packing slip is printed, if desired. Executing the Direct Network Communication (tcedi7205m000) session will result in a report that lists the generated messages.



*Figure 6-17 Print Packing Slips*

As with the purchase order and acknowledgment, a report is generated showing which EDI messages have been generated; for external EDI, messages (ASCII files) are placed in the Appl\_from directory in the directory specified for the network, from which the translation/communication software will retrieve them.

## Printing and sending the sales invoice (810/INVOIC)

After delivering the ordered goods, the sales invoice can be printed with the Print Sales Invoices (tdsls4404m000) session. The same logic applies for the printing of the sales invoice as with the printing of the order, the acknowledgment and the packing slip. The print session informs you of new EDI messages prepared, and a hard copy of the invoice is printed, if desired. Executing the Direct Network Communication (tcedi7205m000) session will result in a report that lists the generated messages.

As with the purchase order, acknowledgment and dispatch note, a report is generated showing which EDI messages have been generated; for external EDI, messages (ASCII files) are placed in the Appl\_from directory in the directory specified for the network, from which the translation/communication software will retrieve them.

The screenshot shows a software window titled "tdsls4404m000 : Print Sales Invoices [653]". The window has a menu bar with "File", "Edit", "Group", "Options", "Order", "Tools", "Special", and "Help". Below the menu bar is a toolbar with icons for navigation and printing. The main area contains the following fields and options:

- Print Already Printed Documents: No (dropdown)
- Invoice Date: 05-13-1997 (text field)
- Text: (empty text field)
- Enter Specific Orders: Yes (dropdown)
- Finance Company: From 000 - To 999 (range selection)
- Customer: (empty text field)
- Sales Order: From (empty) - To 999999 (range selection)
- Order Type: (empty text field)
- Invoice Amount: From -999999999.00 - To 999999999.00 (range selection)
- Final Invoices: Yes (dropdown)
- Process Delivered Sales Orders: No (dropdown)
- Print Checksums: No (dropdown)
- Print Variant Option Descriptions: Yes (dropdown)
- Print Variant Sales Price Structure: Yes (dropdown)

On the right side of the window, there are two buttons: "Continue" and "Cancel".

Figure 6-18 Print Sales Invoices

This concludes an example of a normal order cycle, using the EDI messages supported by BAAN EDI, when you are exchanging EDI documents with a supplier. However, the orders still need to be closed.

See EDI interchange controller in Chapter 4, for an explanation on how the execution of the Direct Network Communication (tcedi7205m000) session can be automated, so that you do not need to initiate this step unless immediate transfer is required.

# 7 EDI procedure (SCH supply chain)

This section explains the procedural steps that must be completed for a full order cycle, using all supported EDI messages. Note that this example assumes manually initiating direct network communication to both receive and generate messages, instead of using the interchange controller to automate this step.

## **General procedures: purchasing company**

If you are the purchasing company exchanging documents with your supplier, the following diagram and list explains the procedural steps that should be completed for a full purchasing cycle.

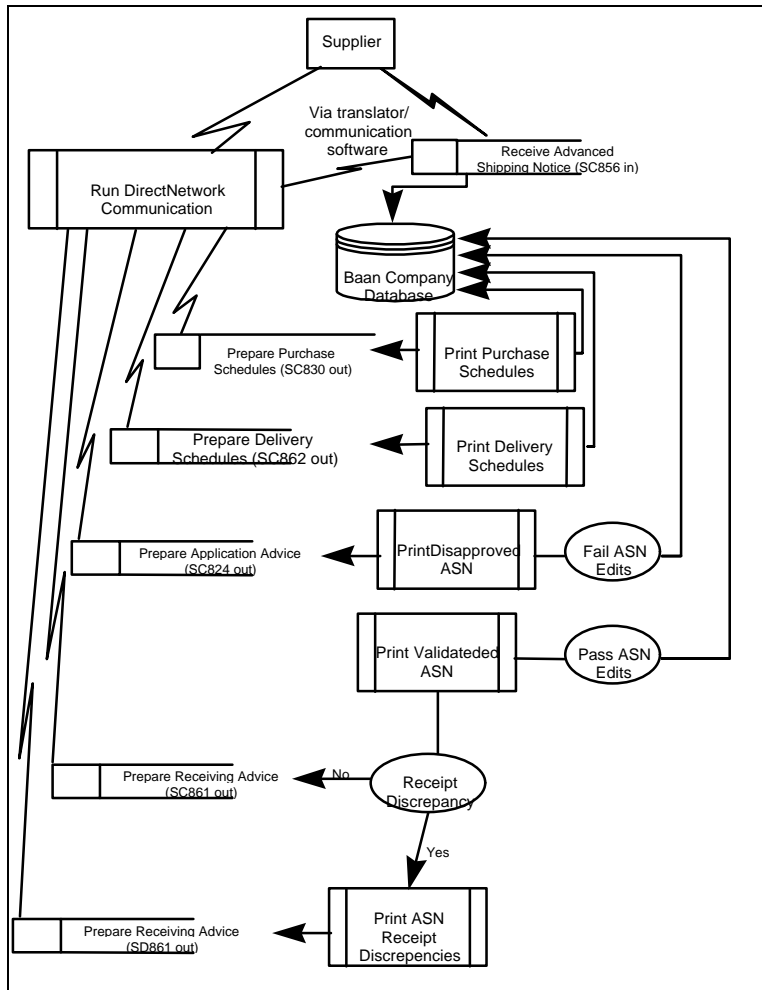


Figure 7-1 Purchasing EDI procedure

- Create and print a purchase schedule. As a rule, purchase schedules are sent out on a weekly basis. Printing the purchase schedule will prepare the EDI message for transmission.
- Run the Direct Network Communication (tcedi7205m000) session to send the purchase schedule (SC830/SC830S out) to your supplier.
- Create and print a delivery schedule. Delivery schedules are sent out daily to let the supplier know what needs to be delivered the next day. Printing the delivery schedule will prepare the EDI message for transmission.

- Run the Direct Network Communication (tcedi7205m000) session to send the delivery schedule (SC862/SC862S out) to your supplier.
- Run the Direct Network Communication (tcedi7205m000) session to receive the Advance Shipping Notice (SC856/SC856S in). Processing the incoming SC856/SC856S creates an entry in the ASN Header and ASN Lines Tables, that you can select and receive against in the Validate Received ASN (tdpsc0240m000) session.
- For the Advanced shipping notices that do not pass the validation process, print the disapproved ASN. Printing the disapproved ASN will prepare the EDI message for transmission.
- Run the Direct Network Communication (tcedi7205m000) session to send the disapproved ASN (SC824/SC824S out) to your supplier.
- For the Advanced shipping notices that pass the validation process, print the validated ASN. Printing the validated ASN will prepare the EDI message for transmission.
- Run the Direct Network Communication (tcedi7205m000) session to send the validated ASN (SC861/SC861S out) to your supplier.
- For the Validated Advanced shipping notices, you can select and receive against them in the Maintain Receipts (tdpur4120m000) session. If there is a discrepancy in the receipted items against the ASN, prints the ASN receipt discrepancy. Printing the ASN receipt discrepancy will prepare the EDI message for transmission.
- Run the Direct Network Communication (tcedi7205m000) session to send the ASN receipt discrepancy (SD861/SD861S out) to your supplier.

**For all outgoing messages:**

Messages will be prepared if the following conditions can be met:

- The supplier on the purchase order is linked to an EDI relation.
- The relation is linked to a network.
- The purchase order type is identified in the Conversion of Order Types (Out) (tcedi432) table.
- The EDI Messages Supported by Relation (tcedi011) table is filled for the combination: relation, message, converted order type, and direction for the organization.
- The record in this table must specify the same network as the one linked to the relation.

- The record in this table must specify a conversion setup.

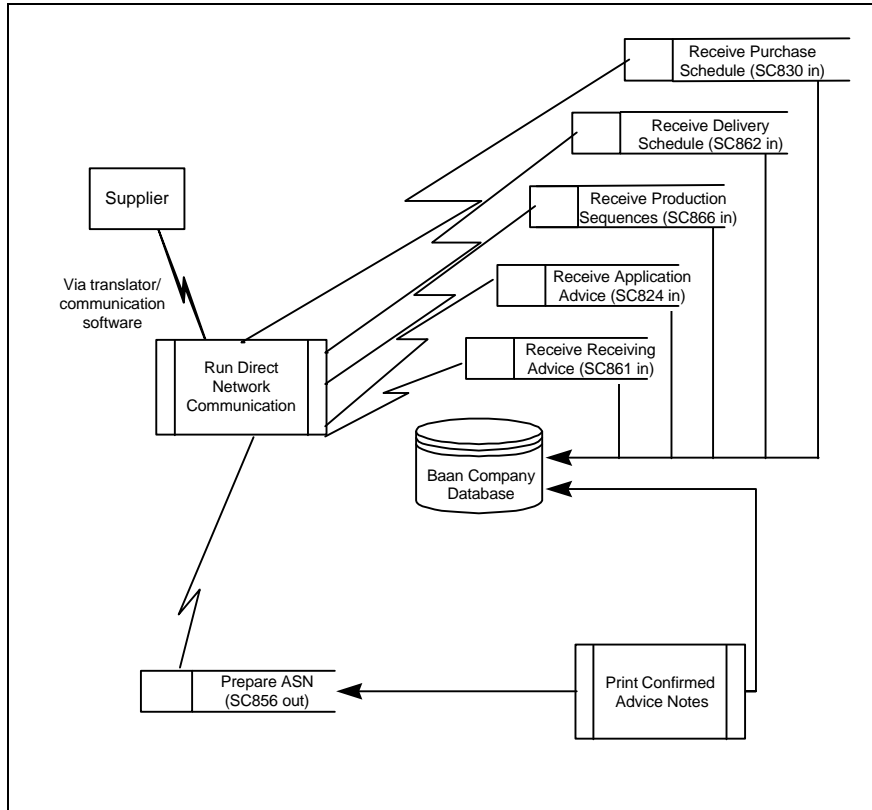
**For all incoming messages:**

The following conditions must be met (as explained in the setup sections of this document):

- The customer specified in the incoming file (message) is valid and is linked to an EDI relation.
- The relation is linked to a network.
- The sales order type specified in the file (if any) is present in the Order Types table.
- The EDI Messages Supported by Relation (tcedi011) table is filled for the combination: relation, message, specified order type and the direction, for the specified organization.
- The ASCII files must reside in the Appl\_to subdirectory in the directory specified for the Network in the EDI Messages Supported by Relation (tcedi011) table for this message type (SC856/SC856S in) and relation.
- The record in EDI Messages Supported by Relation (tcedi011) table must specify a conversion setup.
- The ASCII file Command.fil must be removed from the command directory if you are not suppressing standard communication, and if the relation is an external EDI trading partner.

## General procedures: selling company

If you are the selling company, the following diagram and list explains the procedural steps that must be completed for a full sales cycle.



*Figure 7-2 Selling EDI procedure*

- Run direct network communication to receive the customer purchase schedules (SC830/SC830S in). This will create a sales schedule in your BAAN company.
- Run direct network communication to receive the customer delivery schedules (SC862/SC862S in). This will create a shipping schedule in your BAAN company.
- Run direct network communication to receive the customer production sequence schedules (SC866/SC866S in). This will create a production sequence schedule in your BAAN company.

- Run direct network communication to send the Advance Shipping Notice (SC856/SC856S out) to your customer.
- Run direct network communication to receive the application advice (SC824/SC824S in). These will be sent when there is a validation problem with your outbound ASN.
- Run direct network communication to receive the receiving advice (SC861/SC861S in). These will be sent for all valid Advanced shipping notices. If there is a discrepancy in the receipt process, the message will also contain text indicating the reason for the discrepancy.

The next sections walk you through an example in which each step is explained in more detail.



## The purchasing company

This section demonstrates the steps required to exchange EDI documents with your supplier. You are the purchasing company.

### Enter and print purchase schedules

Figure 7-3 shows the Print Purchase Schedules (tdpsc0402m000) session. This session prepares the outgoing Purchase Schedule EDI message. When you run this session the system verifies that the schedule or schedules should have EDI messages prepared and stored in the Messages to be Generated (tcedi700) table. If a message has been prepared successfully, a pop-up window will appear.

Figure 7-3 Print Purchase Schedules (tdpsc0402m000) session

If any one of the conditions listed in General procedures: purchasing company in Chapter 7 is not met, there will be no trigger and no message can be prepared. However, the hard copy of the purchase order will still be printed. This hard copy can also be printed when the previous conditions are met, if the Print field is set to Yes in the Maintain EDI Messages Supported by Relation (tcedi0111m000) session.

Figure 7-4 shows that the remark EDI Copy is present on all purchase schedules that are both printed and transmitted through EDI

**PURCHASE SCHEDULE - FOR TOTAL QUANTITIES** (Outstanding Quantities) EDI Copy

Testartikel MB4

Last Receipt No. :	100417	Cum. Released Schedules :	6451,00
Last Receipt Date :	20-08-1997	Cumulative Requirements :	1000,00
Last Receipt Qty :	10,0000	Received Qty This Year :	5473,00
Last Invoice No. :	144	Cum. Balance +/- :	4473,00
Issue Date :	18-08-1997		

total Qty	Cumulatives / EDI Info	Monday /	Tuesday /	Wednesday /	Thursday /	Friday /
978,0000	978,0000	178,0000	200,0000	200,0000	200,0000	200,0000

**PURCHASE SCHEDULE - FOR TOTAL QUANTITIES** (Outstanding Quantities) EDI Copy

Testartikel MB4

Last Receipt No. :	100404	Cum. Released Schedules :	2009,00
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Figure 7-4 Purchase Schedule Output

## Sending the purchase schedules (SC830/SC830S)

If you are not using the interchange controller to automate the process, you can manually generate the outgoing message in one of two ways.

The first method is to use the Generate EDI Messages (tcedi7201m000) session. This session will construct the outgoing messages that are:

- Eligible for transmission (present in tcedi700 table)
- Within the specified selection range

For external EDI relations, the messages are placed in the Appl\_from directory in the directory defined for the network specified for the Message by Relation. See Processing files in Chapter 4.

The second method is to run the Direct Network Communication (tcedi7205m000) session. This session generates any outgoing messages (if the network is set up to do so) and then reads any incoming messages. See Processing files in Chapter 4.

The session displays the reference number, message and order number of the order that is currently processed. Notice that the reference number is built up as defined in the Maintain Networks (tcedi0120m000) session.

Both sessions generate a report to show which messages have been generated. This is the Display Messages to be Generated (tcedi7500m000) session.

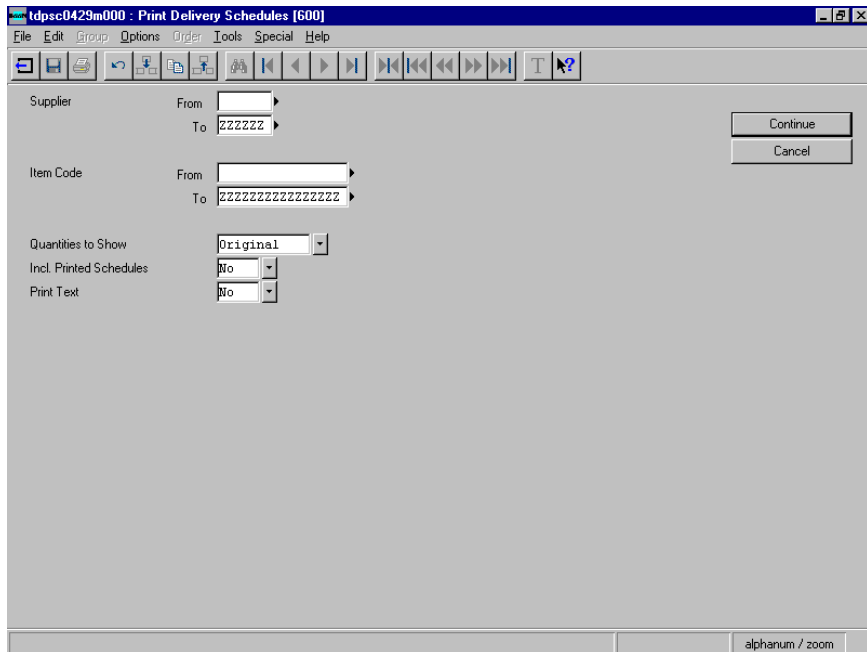
The screenshot shows a software window titled "tcedi7500m000: Display Messages to be Generated [600]". The window contains a table with the following data:

EDI Message	Org.	Network	Parent-Relation	Order Type	Number	Relation
SCH830	X12	X12866	100	830	100135	100
SCH830	X12	X12866	100	830	100197	100
SCH830	X12	X12866	100	830	100198	100
SCH830	X12	X12866	100	830	100231	100
SCH830	X12	X12866	100	830	100252	100
SCH830	X12	X12866	100	830	100256	100
SCH830	X12	X12866	100	830	100257	100
SCH830	X12	X12866	100	830	100260	100
SCH830	X12	X12866	100	830	100264	100

Figure 7-5, Display Messages to be Generated (tcedi7601m000)

## Enter and print delivery schedules

Figure 7-6 shows the Print Delivery Schedules (tdpsc0429m000) session. This session prepares the outgoing Delivery Schedule EDI message. When you run this session, the system verifies that the schedule, or schedules, should have EDI messages prepared and stored in the Messages to be Generated (tcedi700) table. If a message has been prepared successfully, a pop-up window will appear.



*Figure 7-6, Print Delivery Schedules (tdpsc0429m000) session*

If any one of the conditions listed in General procedures: purchasing company in Chapter 7 is not met, there will be no trigger and no message can be prepared. However, the hard copy of the purchase order will still be printed. This hard copy can also be printed when the previous conditions are met, if the Print field is set to Yes in the Maintain EDI Messages Supported by Relation (tcedi0111m000) session.

The remark EDI Copy is present on all delivery schedules that are both printed and transmitted through EDI.

## **Sending the delivery schedules (SC862/SC862S)**

If you are not using the interchange controller to automate the process, you can manually generate the outgoing message in one of two ways.

The first method is to use the Generate EDI Messages (tcedi7201m000) session. This session will construct the outgoing messages that are:

- Eligible for transmission (present in tcedi700 table)
- Within the specified selection range

For external EDI relations, the messages are placed in the Appl\_from directory which is in the directory defined for the network, specified for the Message by Relation. See Processing files in Chapter 4.

The second method is to run the Direct Network Communication (tcedi7205m000) session. This session generates any outgoing messages (if the network is set up to do so) and then reads any incoming messages. See Processing files in Chapter 4.

The session displays the reference number, message, and order number of the order that is being processed. The reference number is built up as defined in the Maintain Networks (tcedi0120m000) session.

Both sessions generate a report to show which messages have been generated. This is the Display Messages to be Generated (tcedi7500m000) session.

## Receiving the Advanced Shipping Notice (SC856/SC856S)

Your supplier will send advanced shipping notices (ASNs) once your delivery schedules have been received. You receive advanced shipping notices as an SC856/SC856S incoming transaction. You must run the Direct Network Communication (tcedi7205m000) session to receive the ASN. Once the ASN is received, the ASCII files are translated from their standard format into the file format defined by your conversion setups. This is the case if external EDI and the resulting ASCII file is placed in the appropriate directory by the translation/communication software.

After receiving the ASN message, the ASN will be validated using the Validate Received ASN (tdpsc1440m000) session. This session will process the incoming fields on the ASN and mark it as invalid if any of the checks fail.

tdpsc0240m000 : Validate Received ASN [600]

File Edit Group Options Order Tools Special Help

Supplier From  To 222222

Advice Note Number From  0 To 999999

Continue

Cancel

Supplier

Advice Note Number 0

alphanum

Figure 7-7, Validate Received ASN (tdpsc0240m000)

If the ASN is invalid, the Update Invalid ASN (tdpsc1240m000) session will copy these ASN data to separate tables defined for invalid ASN data. The Invalid ASN data is then available so that the rejected ASN can be sent back out to the supplier.

tdpsc1240m000 : Update Invalid ASN - EDI [600]

File Edit Group Options Order Tools Special Help

Supplier From  To

Advice Note Number From  To

Continue

Cancel

Supplier

Advice Note Number 0

alphanumeric

Figure 7-8, Updated Invalid ASN (tdpsc1240m000)

## Enter and print disapproved ASN

The Print Disapproved ASN (tdpsc1445m000) session prepares the Application Advice EDI message for any invalid ASNs that were processed in the Update Invalid ASN session. When you run this session, the system verifies that the invalid ASNs should have EDI messages prepared and stored in the Messages to be Generated (tcedi700 and tcedi708) tables. If a message has been prepared, the session will indicate that a message was successfully prepared with a pop-up message box

*Figure 7-9, Print Disapproved ASN (tdpsc1445m000)*

If any one of the conditions listed in General procedures: purchasing company in Chapter 7 is not met, there will be no trigger. In other words: no message can be prepared. However, the hard copy of the disapproved ASN will still be printed. This hard copy can also be printed when the previous conditions are met if the Print field is Yes in the Maintain EDI Messages Supported by Relation (tcedi0111m000) session.

The remark EDI Copy is present on all disapproved ASNs that are both printed and transmitted through EDI.



## **Sending the disapproved ASN (SC824/SC824S)**

If you are not using the interchange controller to automate the process, you can manually generate the outgoing message in one of two ways.

The first method is to use the Generate EDI Messages (tcedi7201m000) session. This session will construct the outgoing messages that are:

- Ready for transmission (present in table tcedi700)
- Within the specified selection range

For external EDI relations, the messages are placed in the Appl\_from directory which is in the directory defined for the network, specified for the Message by Relation. See Processing files in Chapter 4.

The second method is to run the Direct Network Communication (tcedi7205m000) session. This session generates any outgoing messages (if the network is set up to do so) and then reads any incoming messages. See Processing files in Chapter 4.

The session displays the reference number, message and order number of the order that is being processed. The reference number is built up as defined in the Maintain Networks (tcedi0120m000) session.

Both sessions generate a report to show which messages have been generated. This is the Display Messages to be Generated (tcedi7500m000) session.

## Enter and print validated ASN

For all valid ASNs, the Print Validated ASN (tdpsc1440m000) session will be run. The Print Validated ASN (tdpsc1440m000) session prepares the Receiving Advice EDI message for any valid ASNs that were processed in the Validated ASN session. When you run this session, the system verifies that the valid ASNs should have EDI messages prepared and stored in the Messages to be Generated (tcedi700 and tcedi708) tables. If a message has been prepared, the session will indicate that a message was successfully prepared with a pop-up message box.

The screenshot shows a software dialog box titled "tdpsc1440m000 : Print Validated ASN [600]". The dialog has a menu bar with "File", "Edit", "Group", "Options", "Order", "Tools", "Special", and "Help". Below the menu bar is a toolbar with various icons for navigation and actions. The main area of the dialog is divided into two sections. The first section is labeled "Supplier" and contains two fields: "From" (empty) and "To" (containing "ZZZZZZ"). The second section is labeled "Advice Note Number" and contains two fields: "From" (containing "0") and "To" (containing "999999"). To the right of these fields are two buttons: "Continue" and "Cancel". At the bottom right of the dialog, the text "alphanumeric" is visible.

*Figure 7-10, Print Validated ASN (tdpsc1440m000)*

If any one of the conditions listed in General procedures: purchasing company in Chapter 7 is not met, there will be no trigger. In other words: no message can be prepared. However, the hard copy of the Validated ASN will still be printed. This hard copy can also be printed when the previous conditions are met, if the Print field is Yes in the Maintain EDI Messages Supported by Relation (tcedi0111m000) session.

The remark EDI Copy is present on all validated ASNs that are both printed and transmitted through EDI.

## **Sending the receiving advice - validated ASN (SC861/SC861S)**

If you are not using the interchange controller to automate the process, you can manually generate the outgoing message in one of two ways.

The first method is to use the Generate EDI Messages (tcedi7201m000) session. This session will construct the outgoing messages that are:

- Ready for transmission (present in table tcedi700)
- Within the specified selection range

For external EDI relations, the messages are placed in the Appl\_from directory which is in the directory defined for the network, specified for the Message by Relation. See Processing files in Chapter 4.

The second method is to run the Direct Network Communication (tcedi7205m000) session. This session generates any outgoing messages (if the network is set up to do so) and then reads any incoming messages. See Processing files in Chapter 4.

The session displays the reference number, message and order number of the order that is being processed. The reference number is built up as defined in the Maintain Networks (tcedi0120m000) session.

Both sessions generate a report to show which messages have been generated. This is the Display Messages to be Generated (tcedi7500m000) session.

## Enter and print ASN receipt discrepancies

The Maintain Receipts (tdpur4120m000) session is used to maintain the items on the ASN when they are received at the customer site. The items received are compared against the ASN. If there are any discrepancies, a reason is recorded and the information is sent out to the customer.

The screenshot shows the 'Maintain Receipts' window with the following data:

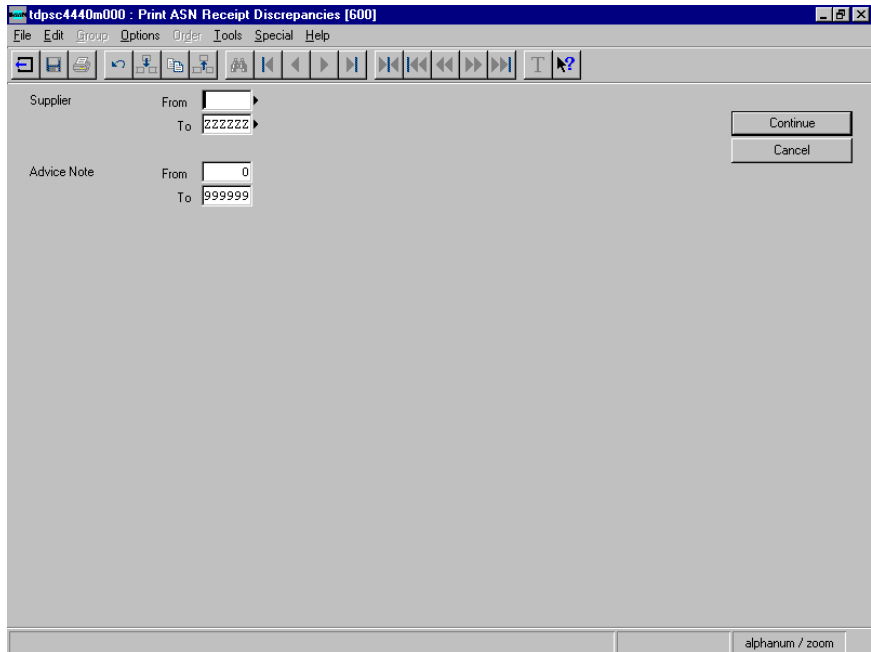
Order	Pos.	Item Code	Cont.	Pack Slip Qty	Rec.Date	Delivered Qty
200221	10	ITEM A 4	Scenario 4 Item A	50,0000	27-08-97	50,0000
200221	20	ITEM C 4	Scenario 4 Item C	25,0000	27-08-97	20,0000

A pop-up window titled 'tdpsc1246s000 : Maintain Disapproved ASN Lines - EDI [600]' is overlaid on the table. It shows the following details:

- Supplier: 401
- Advice Note: 200012
- Position: 10
- Code: 08
- Reason for Blocking: Rejected

Figure 7-11, Mantain Receipts (tdpur4120m000)

If there is a discrepancy, the Print ASN Receipt Discrepancy (tdpsc4440m000) session will be run. The Print ASN Receipt Discrepancy (tdpsc4440m000) session prepares the Receiving Advice EDI message for any valid ASNs that had a receipt discrepancy and were processed in the Maintain Receipts session. When you run this session, the system verifies that the valid ASNs should have EDI messages prepared and stored in the Messages to be Generated (tcedi700 and tcedi708) tables. If a message is prepared, the session will indicate with a pop-up message box that it is successful.



*Figure 7-12, Print ASN Receipt Discrepancies (tdpsc4440m000)*

If any one of the conditions listed in General procedures: purchasing company in Chapter 7 is not met, there will be no trigger. In other words, no message can be prepared. However, the hard copy of the ASN Receipt Discrepancy will still be printed. This hard copy can also be printed when the previous conditions are met, if the Print field is Yes in the Maintain EDI Messages Supported by Relation (tcedi0111m000) session.

The remark EDI Copy is present on all ASN Receipt Discrepancies that are both printed and transmitted through EDI.

### **Sending the validated ASN receipt discrepancy (SD861/SD861S)**

If you are not using the interchange controller to automate the process, you can manually generate the outgoing message in one of two ways.

The first method is to use the Generate EDI Messages (tcedi7201m000) session. This session will construct the outgoing messages that are:

- Ready for transmission (present in table tcedi700)
- Within the specified selection range

For external EDI relations, the messages are placed in the Appl\_from directory which is in the directory defined for the network, specified for the Message by Relation. See Processing files in Chapter 4.

The second method is to run the Direct Network Communication (tcedi7205m000) session. This session generates any outgoing messages (if the network is set up to do so) and then reads any incoming messages. See Processing files in Chapter 4.

The session displays the reference number, message and order number of the order that is being processed. The reference number is built up as defined in the Maintain Networks (tcedi0120m000) session.

Both sessions generate a report to show which messages have been generated. This is the Display Messages to be Generated (tcedi7500m000) session.

## The selling company

This example illustrates the steps required to exchange EDI documents with a buyer, when you are the supplier.

### Receiving the sales schedule (SC830/SC830S)

Once you receive the sales schedule (SC830/SC830S) from your customer, the ASCII files are translated from their standard format into the file format defined by your conversion setups. They are placed in the appropriate Appl\_to directory by the translation/communication software. This is the case if an external EDI relation was defined. You can use the Direct Network Communication (tcedi7205m000) session to receive in the schedule.

All conditions listed in the General procedures: purchasing company in Chapter 7, must be met before the message can be read.

The Direct Network Communication (tcedi7205m000) session generates a report to show which messages have been successfully received:

**Display Browser - Remarks in Copied Messages**

File Options Help

Date : 28-08-97 [17:38] REMARKS IN COPIED MESSAGES  
Baan\_IUb2 SCH 3rd Release

Type of Number	Number	Line	Remarks
SCH Sales Sched	100810		Schedule Number.....: 100810
SCH Sales Sched	100810		Customer.....: 102
SCH Sales Sched	100810		Delivery Address.....: 102
SCH Sales Sched	100810		Item.....: ITEM B 1
SCH Sales Sched	100810		Contract/Position.....: 100117/10
SCH Sales Sched	100810		Last Shipment Number..: 0
SCH Sales Sched	100810	10	SCH Sales Schedule 100810 inserted

Page 1

*Figure 7-13, Report of received and successfully read sales schedules*

The Direct Network Communication (tcedi7205m000) session also generates a report to show which messages have errors:

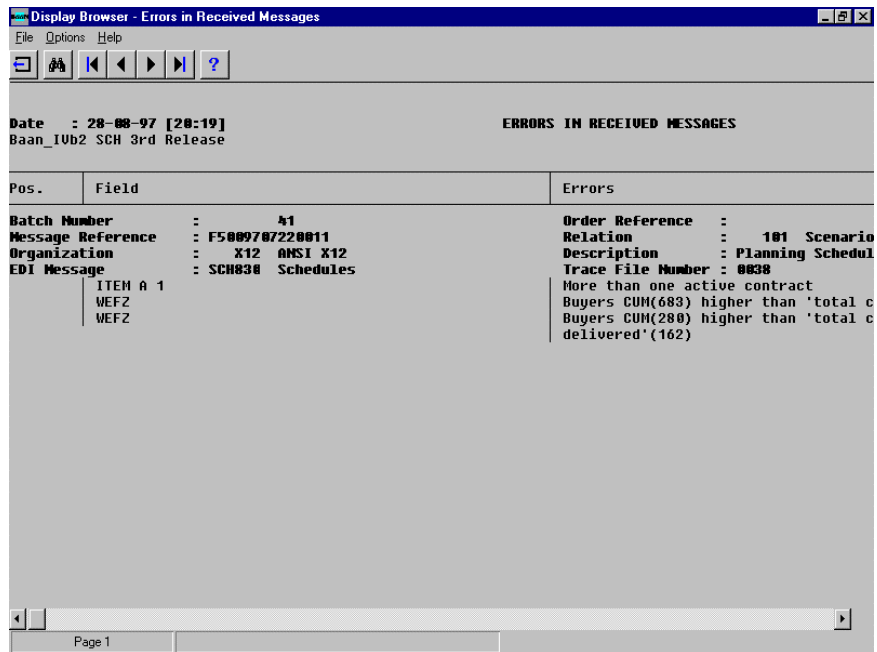


Figure 7-14, Report of errors in received sales schedules

## Receiving the shipping schedule (SC862/SC862S)

Once you receive the shipping schedule (SC862/SC862S in) from your customer, the ASCII files are translated from their standard format into the file format defined by your conversion setups. The files are placed in the appropriate Appl\_to directory by the translation/communication software if an external EDI relation was defined. You can use the Direct Network Communication (tcedi7205m000) session to receive in the schedule.

All conditions listed in the General procedures: purchasing company in Chapter 7, must be met before the message can be read.

The Direct Network Communication (tcedi7205m000) session generates a report to show which messages have been successfully received, as well as a report of the errors in received messages.



## Receiving the production sequence (SC866/SC866S)

Once you receive the production sequence (SC866/SC866S in) from your customer, the ASCII files are translated from their standard format into the file format defined by your conversion setups. They are placed in the appropriate Appl\_to directory by the translation/communication software if an external EDI relation was defined. You can use the Direct Network Communication (tcedi7205m000) session to receive in the schedule. All conditions listed in General procedures: purchasing company in Chapter 7, must be met before the message can be read.

The Direct Network Communication (tcedi7205m000) session generates a report to show which messages have been successfully received, as well as a report of the errors in received messages.

Enter and print the ASN (SC856/SC856S). Once the shipment has been planned and confirmed, the ASN can be printed with the Print Confirmed Advice Notes (tdssc2417m000) session. When you run this session, the system verifies that the ASN (or ASNs) should have EDI messages prepared and stored in the Messages to be Generated (tcedi700) table. The print session informs you of new EDI messages prepared, and , if desired, a hard copy of the ASN is printed.

Figure 7-15, Print Packing Slips

## **Sending the purchase schedules (SC830/SC830S)**

If you are not using the interchange controller to automate the process, you can manually generate the outgoing message in one of two ways.

The first method is to use the Generate EDI Messages (tcedi7201m000) session. This session will construct the outgoing messages that are:

- Eligible for transmission (present in tcedi700 table)
- Within the specified selection range

For external EDI relations, the messages are placed in the Appl\_from directory, which is in the directory defined for the network specified for the Message by Relation. See Processing files in Chapter 4.

The second method is to run the Direct Network Communication (tcedi7205m000) session. This session generates any outgoing messages (if the network is set up to do so) and then reads any incoming messages. See Processing files in Chapter 4.

The session displays the reference number, message and order number of the order that is being processed. The reference number is built up as defined in the Maintain Networks (tcedi0120m000) session.

Both sessions generate a report to show which messages have been generated. This is the Display Messages to be Generated (tcedi7500m000) session.

EDI Message	Org.	Network	Parent-Relation	Order Type	Number	Relation
\$CH856	X12	X12866	100	856	300023	100

Figure 7-16, Display Messages to be Generated (tcedi7601m000)

## Receiving the application advice (SC824/SC824S)

Once you receive the application advice (SC824/SC824S in) from your customer, the ASCII files are translated from their standard format into the file format defined by your conversion setups. They are placed in the appropriate Appl\_to directory by the translation/communication software if an external EDI relation was defined. You can use the Direct Network Communication (tcedi7205m000) session to receive in the schedule.

All conditions listed in the General procedures: purchasing company in Chapter 7, must be met before the message can be read.

The Direct Network Communication (tcedi7205m000) session generates a report to show which messages have been successfully received, as well as a report of the errors in received messages.

## **Receiving the receiving advice (SC861/SC861S)**

Once you receive the receiving advice (SC861/SC861S in) from your customer, the ASCII files are translated from their standard format into the file format defined by your conversion setups. They are placed in the appropriate Appl\_to directory by the translation/communication software if an external EDI relation was defined. You can use the Direct Network Communication (tcedi7205m000) session to receive in the schedule.

All conditions listed in General procedures; purchasing company in Chapter 7, must be met before the message can be read.

The Direct Network Communication (tcedi7205m000) session generates a report to show which messages have been successfully received as well as a report of errors in received messages.

# 8 Internal (multisite) EDI

## Introduction

As stated in earlier chapters, the BAAN EDI module can generate and read ASCII files with a flexible format. In external EDI, these ASCII files must be transferred over commercial or noncommercial networks. This requires translation of the ASCII files to and from standardized encrypted messages, to ensure high data integrity and security, and to provide a universal format supported by all parties.

However, in multisite EDI implementations (also referred to as internal EDI), the ASCII files are transferred over the internal company network (LAN or WAN), which means that encryption is not required. Also, because all companies in the multisite structure use the same format for the ASCII files, translation to an external EDI standard, such as EDIFACT or ANSI X12, is not required.

Internal EDI can only be accomplished between sites (companies) that share a common directory on the company network (either by using the same data server, or through NFS). In addition, all sites must use the same application server, to allow site A (company 654) to start a background process in site B (company 653) that reads messages just sent from A to B, for example. If this real-time transfer of messages is not required, the transfer of internal EDI messages is similar to an external EDI situation, with the exception of the translation and communication software.

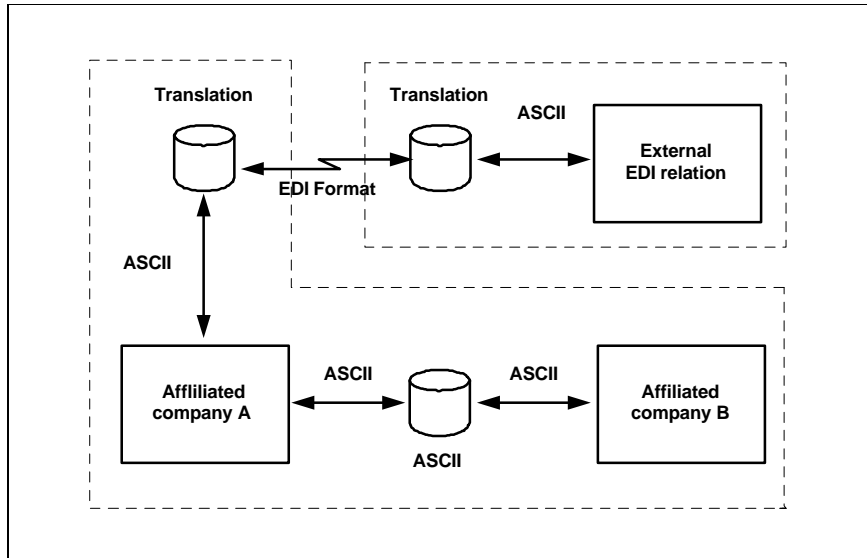


Figure 8-1 External and internal EDI

All messages explained in previous chapters are available for use in a multisite environment:

For the purchasing company:

- 850/ORDERS, Purchase Order (direction out)
- 855/ORDRSP, Purchase Order Acknowledgment (direction in)
- 860/ORDCHG, Purchase Order Change (direction out)
- 865, Purchase Order Change Acknowledgment (direction in) (optional)
- 856/DESADV, Advanced Shipping Notice (Standard) (direction in)
- 810/INVOIC, Invoice (direction in)

For the sales company:

- 850/ORDERS, Purchase Order (direction in)
- 855/ORDRSP, Purchase Order Acknowledgment (direction out)
- 860/ORDCHG, Purchase Order Change (direction in)
- 865, Purchase Order Change Acknowledgment (direction out), optional
- 856/DESADV, Advanced Shipping Notice (Standard) (direction out)
- 810/INVOIC, Invoice (direction out)

This chapter provides setup and procedures for the purchasing and sales companies. When setup or procedure is the same as external EDI, you will be referred to the appropriate section.

## General setup

In this chapter, two companies, 653 and 654, will be referred to in examples. Company 654 purchases from company 653.

### Company data

In company 654, company 653 must be defined as a supplier; in company 653, company 654 must be defined as a customer. In addition, the customer and supplier must be defined as affiliated companies. This requires the presence of both company numbers in the Companies (tccom000) table of each company. This can be accomplished in one of two ways:

- 1 Add the missing company and related data in the tccom000 table of both companies with the Table Manager. The Maintain Company Data (tccom0100m000) session only allows you to edit the data of the current company.
- 2 Share tccom000 between the two companies, with the data of both companies present in the table.

Use the Maintain Logical Tables (ttaad4120m000) session to share the tccom000 table of company 654 between the two companies. This can be done in either company. Remember to select Convert to Runtime in the Special menu.

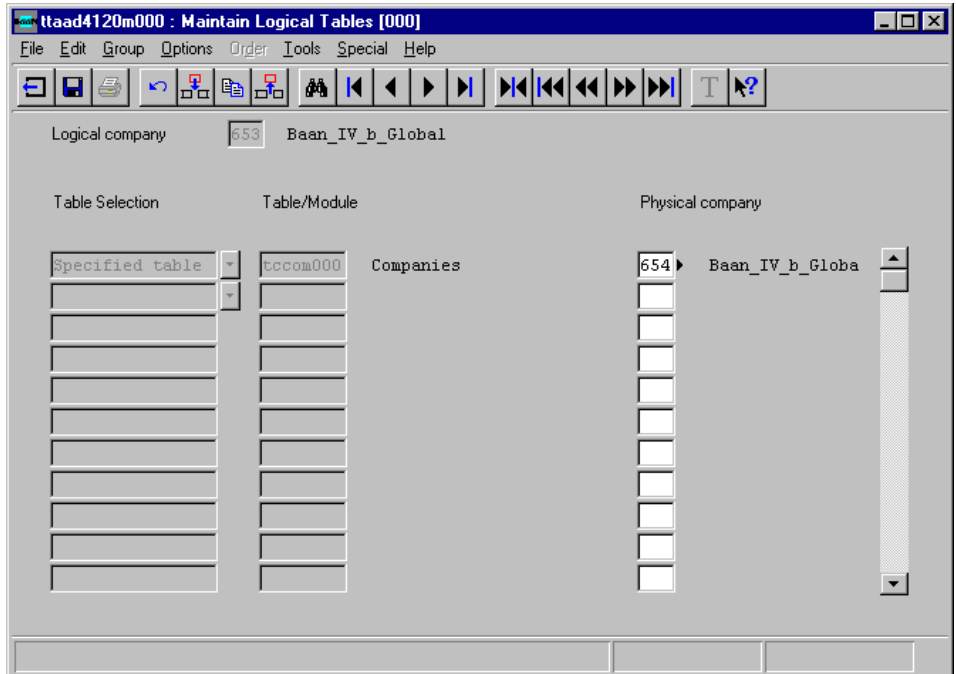


Figure 8-2 Maintain Logical Tables

Now that company 653 references the company data of 654 for its company data, you must add the company data of 653 to that table. Use the Maintain Company Data (tccom0100m000) session in company 653.

### Customer and supplier data

In order to transfer goods using purchase orders and sales orders, both companies must identify each other as customer and/or supplier. Although you can use any customer/supplier code, using the company number is recommended.



Customer 654 Company 654

Bank

Tax No

Tax Number

Verification Date

Financial Customer Group USA Cust. United States of America

Affiliated Company Yes

Affiliated Company No. 654 Standard Company wit

Credit Limit 0.00

Credit Limit Insured 0.00

Credit Insurance Company

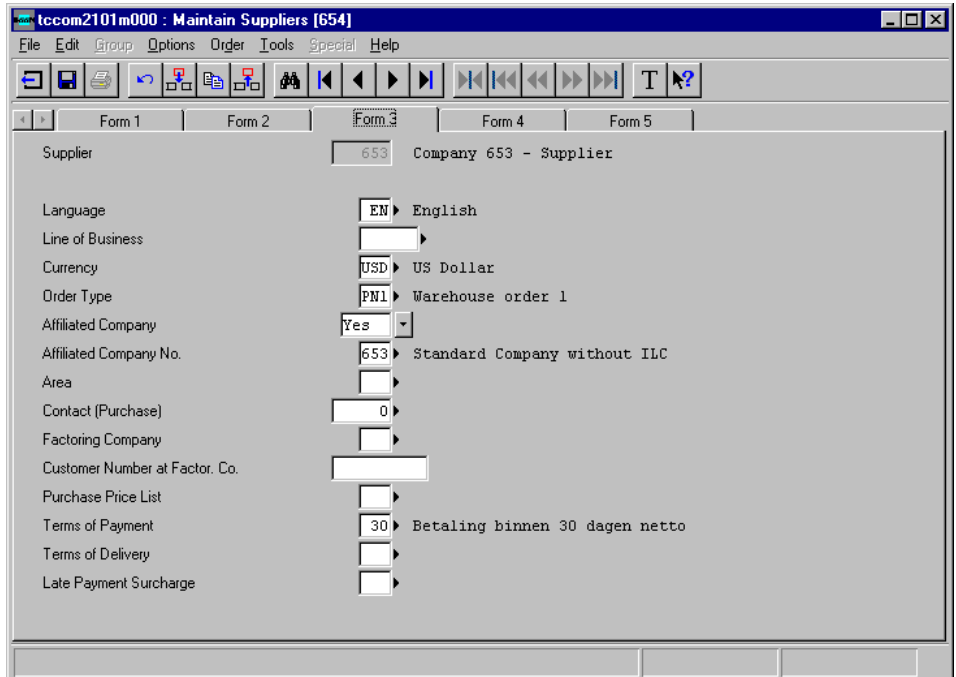
Reference Credit Insurance Company

Expiry Date of Insured Credit Limit

Continue

*Figure 8-3 Maintain Customers*

The Affiliated Company No. field determines whether the customer or supplier is a multisite related company.



Supplier	653	Company 653 - Supplier
Language	EN	English
Line of Business		
Currency	USD	US Dollar
Order Type	PM1	Warehouse order 1
Affiliated Company	Yes	
Affiliated Company No.	653	Standard Company without ILC
Area		
Contact (Purchase)	0	
Factoring Company		
Customer Number at Factor. Co.		
Purchase Price List		
Terms of Payment	30	Betaling binnen 30 dagen netto
Terms of Delivery		
Late Payment Surcharge		

*Figure 8-4 Maintain Suppliers*

### Parameters

See Parameters in Chapter 2, for information on setting the EDI parameters.

### Default EDI data

See EDI default data in Chapter 2, for information on exporting and importing default EDI data.

### Networks

Because data for internal relations does not need to be translated into actual EDI messages, internal EDI data should be separated from external EDI data by defining a separate network. See Networks in Chapter 2, for information on networks for external EDI data.

The screenshot shows a software window titled "tcedi0120m000 : Maintain Networks [654]". The window contains a menu bar with "File", "Edit", "Group", "Options", "Order", "Tools", "Special", and "Help". Below the menu bar is a toolbar with various icons. The main area is a form titled "Form 2" with the following fields:

- Network: MS-NET
- Description: Multisite Network
- Path: /baan2/baanIWbl/bse/edi/msnet/
- Our Identification: C654
- Multicompany: Yes
- Start Read Batch after Generating: Yes
- General Reference: Yes
- Fixed Part: (empty)
- Date Format: (empty)
- First Free Number: (empty)
- Action on New Date: (empty)

*Figure 8-5 Maintain Networks*

The following fields relate directly to a multisite environment:

#### Explanation of fields

Field	Explanation
Multicompany	If this field is Yes, the system will create the appropriate subdirectories.
Start Read Batch After Generating	Indicate if you want the system to automatically start a <i>Read Messages Batch</i> in a receiving company after sending a message to that company.

As explained in Chapter 2, General setup for EDI, the result of saving the network definition is that subdirectories are created under the specified path. However, for internal EDI the subdirectories are not the same as those created for external EDI.

Subdirectory	Description
appl_comm	The directory where all generated and received EDI messages are stored.
appl_text	If a message contains any text fields, this directory contains temporary files that are used to build up the text blocks.
appl_trace	This directory contains the created log (trace) files.
command	<p>This directory is used by the system for semaphores. The semaphore, or flagging, mechanism is used to indicate whether a process is active or can be activated. For example, when messages are read in company 654, a semaphore named multicmp.654 will be placed in the command directory. This indicates to other companies that they cannot place any new messages in the appl_comm/c654 directory for the duration of the process.</p> <p>See External EDI network communication in Chapter 4, for additional information about semaphores.</p>
store_send	This is where sent messages are archived based on EDI parameter settings.
store_rcv	This is where received messages are archived based on EDI parameter settings.

For each company in which you define the same network with the same path, a subdirectory is created under the Appl directories with the name *cXXX* (where XXX is the company number). For example, purchase orders sent from any company to company 653 are placed in the directory Appl\_comm/c653. Therefore, with internal EDI/multisite networks, you do not have to use the company number when specifying the directory path for the network, because the appropriate company numbers are created by BAAN.

## EDI relations

In company 654 (the purchasing company), company 653 must be defined as a supplier relation.

Relation	653
Description	Company 653
Customer	
Supplier	653 Company 653 - Supplier
Network	MS-NET Multisite Network
Incrementing Reference Numbers	No
Check Duplicate Order Numbers	Yes
Sales Order Change Response	Order Acknowledgement

*Figure 8-6 Maintain Relations*

In company 653 (the sales company), company 654 must be defined as a customer relation.

See EDI relations in Chapter 2, for field information.

### Relation data by network

See Relation data by network in Chapter 2, for additional information.

This information serves as the technical address of the relation and is used in the envelope information of any EDI message. In internal EDI, the routing is implicit because the relation number determines which customer or supplier is the recipient of the message. The affiliated company number of the customer or supplier determines in which directory the messages are placed.

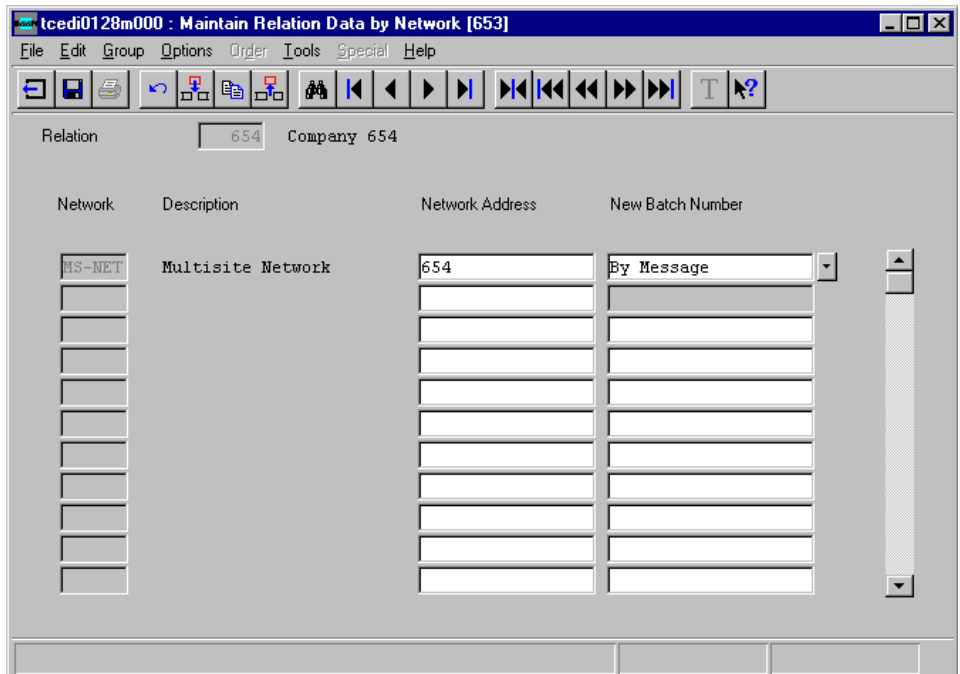


Figure 8-7 Maintain Relation Data by Network

Relation 653 must also be defined in company 654.

### Code and conversion tables

See Code and conversion tables in Chapter 2.

## Purchasing company setup

See Purchasing company, and Outgoing conversions in Chapter 3, for additional information.

As explained in EDI messages supported by relation in Chapter 3, you need to determine which purchasing documents you want to exchange with your supplier. In this case, your supplier is another company in your multisite environment. The available purchasing documents are:

- 850/ORDERS, Purchase Order (direction out)
- 855/ORDRSP, Purchase Order Acknowledgment (direction in)
- 860/ORDCHG, Purchase Order Change (direction out)
- 865, Purchase Order Change Acknowledgment (direction in) (optional)
- 856/DESADV, Advanced Shipping Notice (Standard) (direction in)
- 810/INVOIC, Invoice (direction in)

Examples of each of these messages are shown for company 654.

The screenshot shows a software window titled "tcedi0111m000 : Maintain EDI Messages Supported by Relations [654]". The window has a menu bar (File, Edit, Group, Options, Order, Tools, Special, Help) and a toolbar with various icons. The main area is a form with the following fields:

Relation	653	Company 653
Organization	X12	ANSI X12
EDI Message	850	X12 Purchase Order
Direction	Out	
Order Type		
Type of Number	Purchase Order	
Network	MS-NET	Multisite Network
Conversion Setup	850	Purchase Order (Out)
Person Responsible	bsp	General_User
Block		
Print	Yes	
Incoming Message		
Processing Type		

Figure 8-8 850/ORDERS, Purchase Order (direction out)

tcedi0111m000 : Maintain EDI Messages Supported by Relations [654]

File Edit Group Options Order Tools Special Help

Form 2

Relation 653 Company 653

Organization X12 ANSI X12

EDI Message 855 X12 Order Acknowledgment

Direction In

Order Type

Type of Number

Network MS-NET Multisite Network

Conversion Setup 855.U PO Acknowledgment (Update In)

Person Responsible bsp General\_User

Block No

Print Yes

Incoming Message

Processing Type Automatic

Figure 8-9 855/ORDRSP, Purchase Order Acknowledgment (direction in)



The screenshot shows a software window titled "tcedi0111m000 : Maintain EDI Messages Supported by Relations [654]". The window contains a menu bar (File, Edit, Group, Options, Order, Tools, Special, Help) and a toolbar with various icons. Below the toolbar, there are two tabs labeled "Form 1" and "Form 2", with "Form 2" being the active tab. The main area of the window is a form with the following fields and values:

Relation	653	Company 653
Organization	X12	ANSI X12
EDI Message	860	X12 Purchase Order Change
Direction	Out	
Order Type		
Type of Number	Purchase Order	
Network	MS-NET	Multisite Network
Conversion Setup	860	Purchase Order Change (Out)
Person Responsible	bsp	General_User
Block		
Print	Yes	
Incoming Message		
Processing Type		

Figure 8-10 860/ORDCHG, Purchase Order Change (direction out)

The screenshot shows a software application window with the following details:

- Title Bar:** tcedi0111m000 : Maintain EDI Messages Supported by Relations [654]
- Menu Bar:** File Edit Group Options Order Tools Special Help
- Toolbar:** Contains icons for navigation and editing.
- Form Fields:**
  - Relation: 653 Company 653
  - Organization: X12 ANSI X12
  - EDI Message: 865 X12 Order Change Acknowledgmt
  - Direction: In
  - Order Type: (Empty)
  - Type of Number: (Dropdown)
  - Network: MS-NET Multisite Network
  - Conversion Setup: 865.U PO Acknowledgment (Update In)
  - Person Responsible: bsp General\_User
  - Block: No
  - Print: Yes
  - Incoming Message: (Empty)
  - Processing Type: Automatic

Figure 8-11 865, Purchase Order Change Acknowledgment (direction in)

The screenshot shows a software window titled "tcedi0111m000 : Maintain EDI Messages Supported by Relations [654]". The window contains a menu bar (File, Edit, Group, Options, Order, Tools, Special, Help) and a toolbar with various icons. Below the toolbar, there are two tabs labeled "Form 1" and "Form 2", with "Form 2" being the active tab. The main area of the window is a form with the following fields and values:

Relation	653	Company 653
Organization	X12	ANSI X12
EDI Message	856	X12 Advance Shipment Notice
Direction	In	
Order Type		
Type of Number	Receipt	
Network	MS-NET	Multisite Network
Conversion Setup	856	Advanced Shipment Notice (In)
Person Responsible	bsp	General_User
Block	No	
Print	Yes	
Incoming Message		
Processing Type	Automatic	

Figure 8-12 856/DESADV, Advanced Shipping Notice (direction in)

The screenshot shows a software window titled "tcedi0111m000 : Maintain EDI Messages Supported by Relations [654]". The window has a menu bar with "File", "Edit", "Group", "Options", "Order", "Tools", "Special", and "Help". Below the menu bar is a toolbar with various icons for navigation and editing. The main area contains a form with two tabs, "Form 1" and "Form 2". The form fields are as follows:

Relation	653	Company 653
Organization	X12	ANSI X12
EDI Message	810	X12 Invoice
Direction	In	
Order Type		
Type of Number	Purchase Invoice	
Network	MS-NET	Multisite Network
Conversion Setup	810	Invoice (In)
Person Responsible	bsp	General_User
Block	No	
Print	Yes	
Incoming Message		
Processing Type	Automatic	

Figure 8-13 810/INVOIC, Invoice (direction in)

## Sales company setup

See Sales company, and, Outgoing conversions in Chapter 3, for additional information.

As explained in EDI messages supported by relation in Chapter 3, you need to determine which selling documents you want to exchange with your customer. In this case, your customer is another company in your multisite environment. The available selling documents are:

- 850/ORDERS, Purchase Order (direction in)
- 855/ORDRSP, Purchase Order Acknowledgment (direction out)
- 860/ORDCHG, Purchase Order Change (direction in)
- 865, Purchase Order Change Acknowledgment (direction out), optional
- 856/DESADV, Advanced Shipping Notice (Standard) (direction out)
- 810/INVOIC, Invoice (direction out)

The screenshot shows a software window titled "tcedi0111m000 : Maintain EDI Messages Supported by Relations [653]". The window has a menu bar (File, Edit, Group, Options, Order, Tools, Special, Help) and a toolbar with various navigation and action icons. Below the toolbar, there are two tabs: "Form 1" (selected) and "Form 2". The main area contains a form with the following fields and values:

Relation	654	Company 654
Organization	X12	ANSI X12
EDI Message	850	X12 Purchase Order
Direction	In	
Order Type		
Type of Number	Sales Order	
Network	MS-NET	Multisite Network
Conversion Setup	850	Sales Order (In)
Person Responsible	bsp	General_User
Block	No	
Print	Yes	
Incoming Message		
Processing Type	Automatic	

Figure 8-14 850/ORDERS, Purchase Order (direction in), form 1

The screenshot shows a software window with the following content:

Window Title: tcedi0111m000 : Maintain EDI Messages Supported by Relations [653]

Menu: File Edit Group Options Order Tools Special Help

Form Fields:

Relation	654	Company 654
Organization	X12	ANSI X12
EDI Message	850	X12 Purchase Order
Direction	In	
Order Type		
Character Conversion	<input type="text"/>	
SLS Order Type	<input type="text" value="SE"/>	Sales EDI
Order Procedure	<input type="text"/>	
Series	<input type="text" value="2"/>	EDI sales
Item Code System	<input type="text"/>	

Figure 8-15 850/ORDERS, Purchase Order (direction in), form 2

The screenshot shows a software window titled "tcedi0111m000 : Maintain EDI Messages Supported by Relations [653]". The window contains a menu bar (File, Edit, Group, Options, Order, Tools, Special, Help) and a toolbar with various icons. Below the toolbar, there are two tabs labeled "Form 1" and "Form 2", with "Form 2" being the active tab. The main area of the window is a form with the following fields and values:

Relation	654	Company 654
Organization	X12	ANSI X12
EDI Message	855	X12 Order Acknowledgment
Direction	Out	
Order Type		
Type of Number		
Network	MS-NET	Multisite Network
Conversion Setup	855	S0 Acknowledgement (Out)
Person Responsible	bsp	General_User
Block		
Print	Yes	
Incoming Message		
Processing Type		

Figure 8-16 855/ORDRSP, Purchase Order Acknowledgment (direction out)

The screenshot shows a software window titled "tcedi0111m000 : Maintain EDI Messages Supported by Relations [653]". The window has a menu bar with "File", "Edit", "Group", "Options", "Order", "Tools", "Special", and "Help". Below the menu bar is a toolbar with various icons for navigation and editing. The main area contains a form with the following fields and values:

Relation	654	Company 654
Organization	X12	ANSI X12
EDI Message	860	X12 Purchase Order Change
Direction	In	
Order Type		
Type of Number	Sales Order	
Network	MS-NET	Multisite Network
Conversion Setup	860	Sales Order Change (In)
Person Responsible	bsp	General_User
Block	No	
Print	Yes	
Incoming Message		
Processing Type	Automatic	

Figure 8-17 860/ORDCHG, Purchase Order Change (direction in), form 1



The screenshot shows a software window titled "tcedi0111m000 : Maintain EDI Messages Supported by Relations [653]". The window has a menu bar with "File", "Edit", "Group", "Options", "Order", "Tools", "Special", and "Help". Below the menu bar is a toolbar with various icons for navigation and editing. The main area displays the configuration for "Form 2" (selected from a tabbed interface with "Form 1" also visible).

Relation	654	Company 654
Organization	X12	ANSI X12
EDI Message	860	X12 Purchase Order Change
Direction	In	
Order Type		
Character Conversion	<input type="text"/>	
SLS Order Type	<input type="text" value="SE"/>	Sales EDI
Order Procedure	<input type="text"/>	
Series	<input type="text" value="2"/>	EDI sales
Item Code System	<input type="text"/>	

Figure 8-18 860/ORDCHG, Purchase Order Change (direction in), form 2

The screenshot shows a software window titled "tcedi0111m000 : Maintain EDI Messages Supported by Relations [653]". The window has a menu bar with "File", "Edit", "Group", "Options", "Order", "Tools", "Special", and "Help". Below the menu bar is a toolbar with various icons for navigation and editing. The main area contains a form with the following fields and values:

Relation	654	Company 654
Organization	X12	ANSI X12
EDI Message	865	X12 Order Change Acknowledgmt
Direction	Out	
Order Type		
Type of Number		
Network	MS-NET	Multisite Network
Conversion Setup	865	S0 Change Acknowledgment (Out)
Person Responsible	bsp	General_User
Block		
Print	Yes	
Incoming Message		
Processing Type		

Figure 8-19 865, Purchase Order Change Acknowledgment (direction out)

The screenshot shows a software window titled "tcedi0111m000 : Maintain EDI Messages Supported by Relations [653]". The window has a menu bar with "File", "Edit", "Group", "Options", "Order", "Tools", "Special", and "Help". Below the menu bar is a toolbar with various icons for navigation and editing. The main area is a form titled "Form 2" with the following fields:

Relation	654	Company 654
Organization	X12	ANSI X12
EDI Message	856	X12 Advance Shipment Notice
Direction	Out	
Order Type		
Type of Number	Packing Slip Sales Order	
Network	MS-NET	Multisite Network
Conversion Setup	856	Advanced Shipment Notice (Out)
Person Responsible	bsp	General_User
Block		
Print	Yes	
Incoming Message		
Processing Type		

Figure 8-20 856/DESADV, Advanced Shipping Notice (Standard) (direction out)

The screenshot shows a software window titled "tcedi0111m000 : Maintain EDI Messages Supported by Relations [653]". The window contains a menu bar (File, Edit, Group, Options, Order, Tools, Special, Help) and a toolbar with various icons. Below the toolbar is a form titled "Form 2" with the following fields and values:

Relation	654	Company 654
Organization	X12	ANSI X12
EDI Message	810	X12 Invoice
Direction	Out	
Order Type		
Type of Number	Sales Invoice	
Network	MS-NET	Multisite Network
Conversion Setup	810	Invoice (Out)
Person Responsible	bsp	General_User
Block		
Print	Yes	
Incoming Message		
Processing Type		

Figure 8-21 810/INVOIC, Invoice (direction out)

## Setup summary

The first four sections in Chapter 7 list examples. If the two companies supply each other, the following applies:

- In both companies, each company (654 and 653) must be defined as customers and suppliers.
- In company 654, relation 653 must be linked to customer 653 and supplier 653.
- In company 653, relation 654 must be linked to customer 654 and supplier 654.
- In both companies, the Order Types (Out) table must be filled for all message types.
- In both companies, the Conversion of Order Types (Out) table must be filled for all message types.

- In both companies, all EDI messages supported by relation must be defined for directions in and out.

## Running EDI

See Processing files and EDI interchange controllers in Chapter 4 for information about processing files and the EDI interchange controller.

### Multisite network communication

When implementing the interchange controller in multisite situations, make sure that the connect times of the intercompany network in the individual companies are not simultaneous.

Whenever the interchange controller initiates the Direct Network Communication (tcedi7205m000) session, it uses a semaphore to indicate to other sites that it is currently processing messages.

Figure 8-22 illustrates the use of semaphores during direct network communication initiated by company 653 for internal EDI. The second row indicates where the messages for company 653 and 654 are stored, as well as the location of the command directory, where the semaphores are stored.

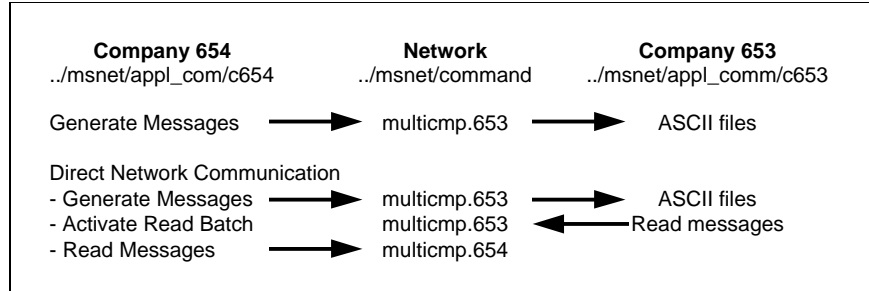


Figure 8-22 Semaphores

There are two ways to send messages from 654 to 653:

- 1 Use the Generate EDI Messages (tcedi7201m000) session.
  - This session checks for the presence of the multicmp.653 semaphore in the command directory. If this semaphore is present, company 653 is currently reading messages.
  - Company 654 will wait until the semaphore is removed by company 653 and, then, generate the messages.

- Company 654 places the multicmp.653 semaphore in the command directory for the duration of message generation, to ensure that other companies do not write to the same files at the same time and that company 653 does not read partially finished files.

2 Use the Direct Network Communication (tcedi7205m000) session.

- First, company 654 performs the activities described for the Generate EDI Messages session.
- Then it activates the Read Messages process in company 653. This process places the multicmp.653 semaphore in the command directory to ensure that the ASCII files are not modified by other sites.
- When 653 is finished reading the ASCII files, the semaphore is removed.
- Then, company 654 continues to read its own messages which places the multicmp.654 semaphore in the command directory for the duration of the read process.

The interaction between the two companies explains the importance of activating the interchange controllers in the individual companies at sequenced intervals. For example:

	<b>Company 654</b>	<b>Company 653</b>
<b>Connect Times</b>	06:00 AM	07:00 AM
	12:00 PM	13:00 PM
	18:00 PM	19:00 PM

## EDI procedure (standard plus GLO)

See Chapter 6, EDI procedure, for a comprehensive explanation about the procedures for purchasing companies and sales companies.

### Purchasing company

Based on the network definition, messages generated from the sending company may be automatically read by the receiving company with no action (the Direct Network Communication (tcedi7205m000) session) to activate the reading of the message on the receiving side.

- Create and print a purchase order. Printing the purchase order will prepare the EDI message for transmission.

- Run the Direct Network Communication (tcedi7205m000) session to send the purchase order (850/ORDERS out) to your supplier.
- Optionally, maintain the purchase order and print changed lines. Run direct network communication to send a Purchase Order Change to your supplier (only for GLO users).
- Optionally, run direct network communication to receive either a Purchase Order Change Acknowledgment (865 in) or a Purchase Order Acknowledgment (855/ORDRSP in) (865 for GLO users only).
- Run direct network communication to receive the Purchase Order Acknowledgment (855/ORDRSP in), the Advance Ship Notice (856/DESADV in) and the Invoice (810/INVOIC in). Processing the incoming 856/DESADV creates an entry in the Dispatch Advice Interim Table that you can select and receive against in the Maintain Receipts (tdpur4120m000) session.

## **Sales company**

- Run direct network communication to receive the customer purchase order (850/ORDERS in). This will create a sales order in your Baan company.
- Evaluate sales order and print the order acknowledgment. This will prepare the outgoing Order Acknowledgment (855/ORDRSP out) for transmission.
- Run direct network communication to send the order acknowledgment (855/ORDRSP out) to your customer.
- Optionally, run direct network communication to receive a Purchase Order Change (860/ORDCHG in) (GLO users only).
- Optionally, run direct network communication to send either a Purchase Order Change Acknowledgment (865 out) or a Purchase Order Acknowledgment (855/ORDRSP out) (GLO users only).
- Maintain deliveries. Print packing slip. This will prepare the Advance Ship Notice (856/DESADV out) for transmission.
- Run direct network communication to send the Advance Ship Notice (856/DESADV out) to your customer.
- Print the sales invoice. This will prepare the Invoice (810/INVOIC out) for transmission.
- Run direct network communication to send the Invoice (810/INVOIC out) to your customer.





# Appendix A Conversion setups

Conversion setups define the file layout of the ASCII files received into and generated from BAAN EDI for your EDI messages. They define the mapping relationship between the ASCII file fields and the BAAN application fields, as well as the rules for each field's validation and translation (conversion).

The fields of the conversion setups are grouped into levels. Levels represent different records within the conversion setup structure. These levels may be distributed over multiple ASCII files (a multfile format) or to a single file (a single file format). For the multfile format, each level is written to a unique ASCII file. For the single file format, all levels for a specific conversion setup are written to a single file where each level is identified with a unique level identifier. In addition, conversion setups may have a delimited or a fixed length. The default conversion setups supplied by BAAN use a delimited structure.

Figure A-1 shows a simplified example of the structure of a BAAN EDI message. In this example, the various segments (for example, message header and body) are distributed over several ASCII files. This is known as a multfile format.

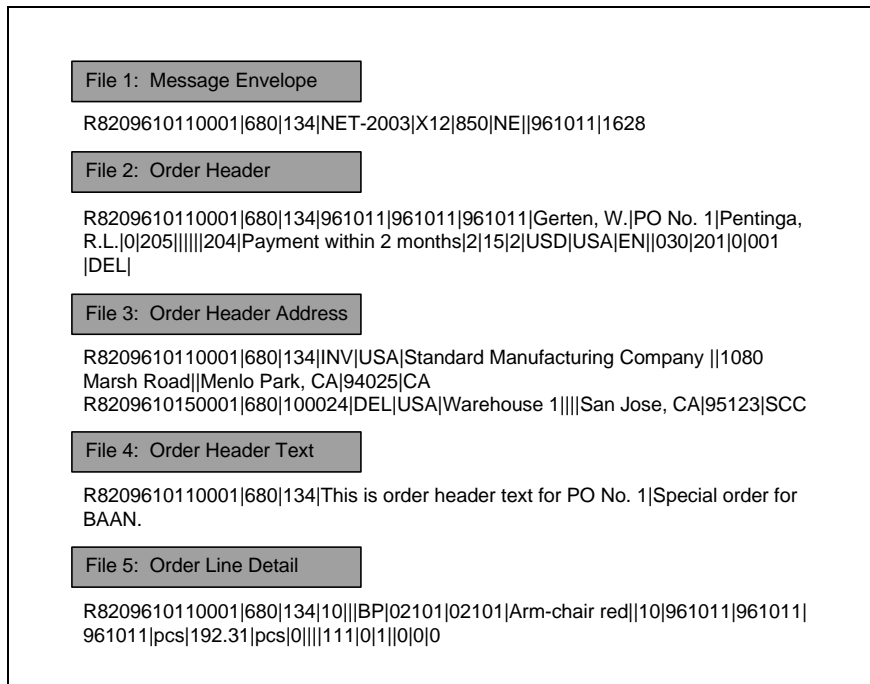


Figure A-1 Sample message structure

The decoding of the message structure is fairly straightforward. Each field has a definition that is contained in the appropriate conversion setup. For example, to decode the envelope level (file 1 in the figure), you can see that there are a total of 10 fields within the record. Each field is delimited by a vertical bar [ | ]. Of the ten possible fields, only 9 are actually populated (field 8 is empty).

The actual field definitions are as follows:

- The envelope or overhead level identifies the transaction being transmitted. The envelope contains a unique reference number that identifies the message (field 1). This code is generated at the time the message is created, based on EDI parameter settings. The transmitting relation identifier is next. This identifies the internal representation of the sending entity (company).
- The order number is the next field in the envelope level. This represents the transmitting organization's internal order number. The fourth field contains the receiving relation's code based on the transmitting organization's identification structure for relations.

- The organization code that is used to determine what coding technique and message structure is applied comes next. It is a mechanism within BAAN EDI that allows grouping by standards such as ANSI X12 or EDIFACT. The next field is the message code that is used to determine the structure of the data file exported from or imported into BAAN EDI.
- In the example shown, the field 8 is empty. Field 9 contains the transmission date and the last field represents the transmission time.

Each one of the files shown in Figure A-1 could be similarly decoded.

Default conversion setups are provided for each supported message in the Defaults.edi file which you imported earlier. This takes care of the general mapping between the ASCII file and the BAAN application. Typically, you will be exchanging EDI documents with your relations using an EDI standard such as the ANSI X12 standard.

If you are exchanging messages with external trading partners, your next step is to define the mapping between the ASCII file and the EDI standard format in which you will transmit or receive the message information with external trading partners. This mapping to the EDI standard is usually handled in your EDI translation/communication software. Use the Print Mapping Information (tcedi5415m000) session to view the file layouts provided for your EDI messages. This will report the file layout that you can use to map to your translation/communication software for the corresponding message.

Conversion setups are provided for each supported message as part of the Defaults.edi data for VRC B40bGLO.

**NOTE** Because the following information is subject to change, the Print Evaluation Expressions (tcedi5105m000) and Print Mapping Information (tcedi5415m000) sessions will provide you with current information about the conversion setups.

**NOTE** All fields in which a conversion is indicated are defined within the conversion setups to convert and to ignore (use the unconverted value without issuing an error) if the conversion does not exist.

## Conversion setup: 810, Invoice

### In direction

Message: 810, Invoice

Organization: X12

Field type: Delimited

**NOTE** Each level is shown in a separate table.

Conversion setup: Global overhead				Level: 1 Envelope - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tcedi702.reno	Relation	2	6			Relation's identification as defined in relation's network address.
tcedi702.msno	Order Reference	4	20			Relation's order number.
tcedi702.orga	Organization	7	3			
tcedi702.mess	EDI Message	8	6			
tcedi702.koor	Order Type	9	35			External reference of order type (code in message).
tcedi702.test	Test Message	10	5			If the text indicator defined for the organization is present, the message will not be processed.
tcedi702.send	Date Sent	11	10			
tcedi702.sent	Time Sent	12	5			

Conversion setup: 810 (In)				Level: 2 Invoice header - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tfacp200.suno	Supplier	2	6	Yes		Defaults from global overhead record's relation. Note: conversion must be set to Yes in order to default from overhead's relation value.
tfacp200.isup	Supplier's Invoice No.	4	20			
tfacp200.orno	Order	6	8			
tfacp200.ccrs	Late Payment Surcharge	17	3	Late Payment Surcharge		
tfacp200.cpay	Terms of Payment	19	3	Terms of Payment Codes		
tfacp200.ccur	Currency	24	3	Currency Codes		
tfacp200.docd	Document Date	32	10			
tfacp200.amnt	Amount	33	19			

**Appendix A Conversion setups**

<b>Conversion setup: 810 (In)</b>				<b>Level: 4 Order header text - optional</b>		
<b>Field name</b>	<b>Description</b>	<b>Pos</b>	<b>Length</b>	<b>Conv.</b>	<b>Eval. expr.</b>	<b>Comments</b>
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tfacp200.suno	Supplier	2	6			Defaults from global overhead record.
tfacp200.isup	Supplier's Invoice No.	4	20			
tfacp200.text	Text	6	80			
tfacp200.text	Text	7	80			Note: multiple text lines may be received. Text is read two fields per record and may loop multiple times.

<b>Conversion setup: 810 (In)</b>				<b>Level: 5 Tax lines - optional</b>		
<b>Field name</b>	<b>Description</b>	<b>Pos</b>	<b>Length</b>	<b>Conv.</b>	<b>Eval. expr.</b>	<b>Comments</b>
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tcedi702.reno	Relation	2	6			Relation's identification as defined in relation's network address.
tcedi702.msno	Order Reference	4	20			Relation's order number.
tfgl102.cvat	Tax Code	6	9			
tfgl102.amnt	Amount	7	19			
tfgl102.vamt	Tax Amount	8	19			

Conversion setup: 810 (In)			Level: 6 Order lines - mandatory			
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tcedi702.reno	Relation	2	6			Relation's identification as defined in relation's network address.
tcedi702.msno	Order Reference	4	20			Relation's order number.
tdpur045.pono	Position Number	7	4			
tdpur041.item	qual1	9	27			
tdpur041.item	Item	10	27	Yes		First converts to Alt. Item Codes (EDI); then to Alternative Item Code.
tdpur045.iqun	Invoiced Quantity	15	19			
tdpur041.cuqp	Purchase Unit	16	3			
tdpur045.iamt	Invoiced Amount	20	19			

## Out direction

Message: 810, Invoice

Organization: X12

Field type: Delimited

NOTE Each level is shown in a separate table.

Conversion setup: Global overhead				Level: 1 Envelope - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdsls480.ttyp	Transaction Type	3	3			Needed for Cash Application if it is possible for same customer to have same invoice number under multiple transaction types.
tdsls480.invn	Invoice Number	4	8			
tdsls045.orno	Sales Order	5	6			
tcedi028.neta	Network Address	6	17			External reference of trading partner (relation) ID number (relation's network address).
tcedi003.code	Code in Message	7	6			Organization (X12).
tcedi001.code	Code in Message	8	6			Message identifier (810).
tcedi011.koor	Order Type	9	35			External reference of order type.
" "	Constant	10	0			May be used to pass a constant for test indicator.
date()	Today's Date	11	0			Date message extracted from BAAN.
time()	Current Time	12	0			Time message extracted from BAAN.



Conversion setup: 810 (Out)				Level: 2 Invoice header - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdsls480.ttyp	Transaction Type	3	3			Needed for cash application if it is possible for same customer to have same invoice number under multiple transaction types.
tdsls480.invn	Invoice Number	4	8			
tdsls045.orno	Sales Order	5	6			
tdsls040.eono	Customer Purchase Order Number	6	30			In BAAN IVb (standard), this is tcedi702.msno for the same data.
tdsls040.odat	Order Date	7	10			Date sales order created.
tdsls040.ddat	Plan.Del.Date	8	10			
tdsls040.refa	Reference A	9	30			Reference field; usually used for customer purchase order number (prior to BAAN IVb GLO).
tdsls040.refb	Reference B	10	20			
tccom001.nama	Name	11	35			Customer's name.
tdsls040.prho	Contract	12	6	Sales Contract Codes		
tdsls040.cdec	Term of Delivery	13	3	Terms of Delivery Codes		BAAN delivery code.
tcmcs041.dsca	Description	14	30			
tdsls040.cfrw	Forwarding Agent	15	3	Forwarding Agent Codes		

**Appendix A Conversion setups**

<b>Conversion setup: 810 (Out)</b>				<b>Level: 2 Invoice header - mandatory</b>		
<b>Field name</b>	<b>Description</b>	<b>Pos</b>	<b>Length</b>	<b>Conv.</b>	<b>Eval. expr.</b>	<b>Comments</b>
tcmcs080.dasca	Description	16	30			
tdsls040.ccrs	Late Payment Surcharge	17	3	Late Payment Surcharges		
tcmcs011.dasca	Description	18	30			
tcmcs040.cpay	Terms of Payment	19	3	Terms of Payment Codes		BAAN payment term code.
tcmcs013.dasca	Description	20	30			Payment term code description.
tcmcs013.pper	Payment Period	21	3			Net payment period.
tcmcs013.disa	Discount Period 1	22	3			Discount period.
tcmcs013.prca	Discount Percentage 1	23	5			Discount percent for period.
tdsls040.ccur	Currency	24	3	Currency Codes		
tdsls040.ccty	Country	25	3	Country Codes		
tdsls040.cdel	Delivery Address	26	3	Delivery Address Codes		BAAN delivery address code on invoice (if present).
tcedi224.code	Code in Message	27	6		SCD	DEL if a delivery address; INV if postal (or invoice) address (defined in EDI address type codes).
tcedi448.cuni	Address Code ID	28	6		SCD	
tdsls040.ccor	Postal Address	29	3	Postal Address Cds (Cust)		BAAN postal address code on invoice (if present).
tcedi224.code	Code in Message	30	6		SCP	DEL if a delivery address; INV if postal (or invoice) address (defined in EDI address type codes).
tcedi450.cuni	Address Code ID	31	6		SCP	
tdsls480.date	Date	32	10			

<b>Conversion setup: 810 (Out)</b>				<b>Level: 2 Invoice header - mandatory</b>		
<b>Field name</b>	<b>Description</b>	<b>Pos</b>	<b>Length</b>	<b>Conv.</b>	<b>Eval. expr.</b>	<b>Comments</b>
tdsls480.invo	Total Invoice Amount	33	19			Total amount of invoice.
tdsls480.good	Total Goods Amount	34	19			Total amount of goods on invoice.
tdsls480.cost	Total Cost/Service Amount	35	19			Total amount of cost and service items on invoice.
tdsls480.disc	Total Invoice Discount	36	19			Total amount of discounts (includes line item discounts) on invoice.
tdsls480.tbvt	Total Tax Base Amount	37	19			
tdsls480.tvat	Total Tax Amount	38	19			Total tax amount on invoice.

Refer to Evaluation expressions in Chapter 8 for information about address line evaluation expressions.

Appendix A Conversion setups

Conversion setup: 810 (Out)				Level: 3 Specific address - optional		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdsls480.ttyp	Transaction Type	3	3			Needed for cash application if it is possible for same customer to have same invoice number under multiple transaction types.
tdsls480.invn	Invoice Number	4	8			
tdsls045.orno	Sales Order	5	6			
tcedi224.code	Code in Message	6	6			DEL if a delivery address; INV if postal (or invoice) address (defined in EDI address type codes).
tcedi224.code	Code in Message	6	6			DEL if a delivery address; INV if postal (or invoice) address (defined in EDI address type codes).
tccom012.ccty	Country	7	3	Country Codes	SCP	
tdsls042.ccty					SSP	
tccom010.ccty					SDP	
tccom013.ccty					SCD	
tdsls042.ccty					SSD	
tccom010.ccty					SDD	
tccom012.nama					Name	
tdsls042.nama	SSP					
tccom010.nama	SDP					
tccom013.nama	SCD					
tdsls042.nama	SSD					
tccom010.nama	SDD					

Conversion setup: 810 (Out)				Level: 3 Specific address - optional		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tccom012.namb	Name 2	9	30		SCP	Additional name (usually blank).
tdsls042.namb					SSP	
tccom010.namb					SDP	
tccom013.namb					SCD	
tdsls042.namb					SSD	
tccom010.namb					SDD	
tccom012.namc	Address	10	30		SCP	
tdsls042.namc					SSP	
tccom010.namc					SDP	
tccom013.namc					SCD	
tdsls042.namc					SSD	
tccom010.namc					SDD	
tccom012.namd	Address 2	11	30		SCP	
tdsls042.namd					SSP	
tccom010.namd					SDP	
tccom013.namd					SCD	
tdsls042.namd					SSD	
tccom010.namd					SDD	
tccom012.name	City	12	30		SCP	Usually city, state.
tdsls042.name					SSP	
tccom010.name					SDP	
tccom013.name					SCD	
tdsls042.name					SSD	
tccom010.name					SDD	
tccom012.namf	City 2	13	30		SCP	Usually zip code.
tdsls042.namf					SSP	
tccom010.namf					SDP	
tccom013.namf					SCD	
tdsls042.namf					SSD	
tccom010.namf					SDD	

**Appendix A Conversion setups**

<b>Conversion setup: 810 (Out)</b>				<b>Level: 3 Specific address - optional</b>		
<b>Field name</b>	<b>Description</b>	<b>Pos</b>	<b>Length</b>	<b>Conv.</b>	<b>Eval. expr.</b>	<b>Comments</b>
tccom012.pstc	Zip Code	14	10		SCP	
tdsls042.pstc					SSP	
tccom010.pstc					SDP	
tccom013.pstc					SCD	
tdsls042.pstc					SSD	
tccom010.pstc					SDD	
tccom012.fovn	Tax Number	15	20		SCP	
tdsls042.fovn	Tax No.				SSP	
tccom010.fovn	Tax Number				SDP	
tccom013.fovn	Tax Number				SCD	
tdsls042.fovn	Tax No.				SSD	
tccom010.fovn	Tax Number				SDD	

Conversion setup: 810 (Out)			Level: 4 Order header text - optional			
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdsls480.ttyp	Transaction Type	3	3			Needed for cash application if it is possible for same customer to have same invoice number under multiple transaction types.
tdsls480.invn	Invoice Number	4	8			
tdsls045.orno	Sales Order	5	6			
tdsls040.txta	Header Text	6	80			One record is written for every two lines of header text. Up to 100 ASCII records (user definable) can be written.

**Appendix A Conversion setups**

<b>Conversion setup: 810 (Out)</b>				<b>Level: 5 Tax lines - optional</b>		
<b>Field name</b>	<b>Description</b>	<b>Pos</b>	<b>Length</b>	<b>Conv.</b>	<b>Eval. expr.</b>	<b>Comments</b>
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdsls480.ttyp	Transaction Type	3	3			Needed for cash application if it is possible for same customer to have same invoice number under multiple transaction types.
tdsls480.invn	Invoice Number	4	8			
tdsls045.orno	Sales Order	5	6			
tdsls481.cvat	Tax Code	6	9	Tax Codes		
tdsls481.bvat	Tax Base Amount	7	19			
tdsls481.avat	Tax Amount	8	19			



Conversion setup: 810 (Out)			Level: 6 Order lines - mandatory			
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdsls480.ttyp	Transaction Type	3	3			Needed for cash application if it is possible for same customer to have same invoice number under multiple transaction types.
tdsls480.invn	Invoice Number	4	8			
tdsls045.orno	Sales Order	5	6			
tdsls482.pono	Position Number	6	4			
tdsls483.pono	Position Number	6	4			For cost item.
tdsls041.epos	Customer Purchase Order Line	7	16			In BAAN IVb (standard), tcedi708.refn.
tdsls041.cprj	Project	8	6	Project Codes		
tdsls041.item	Item	10	27	Alt. Item Codes (EDI)		
tiitm001.dsca	Description	11	30			
tdsls041.item	Item	12	27			
tdsls045.oqua	Ordered Quantity	13	19			
tdsls045.bqua	Back Order	14	19			
tdsls045.dqua	Delivered Quantity	15	19			
tdsls041.cuqs	Sales Unit	16	3	Unit Codes		Unit of measure sold/delivered.
tdsls041.pric	Price	17	19			
tdsls041.cups	Sales Price Unit	18	3	Unit Codes		Unit of measure for sales price.
tdsls045.ddat	Delivery Date	19	10			Date shipped.

**Appendix A Conversion setups**

<b>Conversion setup: 810 (Out)</b>				<b>Level: 6 Order lines - mandatory</b>		
<b>Field name</b>	<b>Description</b>	<b>Pos</b>	<b>Length</b>	<b>Conv.</b>	<b>Eval. expr.</b>	<b>Comments</b>
tdsls045.amnt	Amount	20	19			
tdsls045.fono	Bill of Lading Number	21	6			
tdsls482.pqan	Quantity in Price Unit	22	19			Quantity delivered in sales price unit of measure.
tdsls482.amnt	Invoice Line Amount	23	19			External amount for line item (includes line discount but no line tax or order discount).
tdsls483.amnt	Invoice Line Amount	23	19			External amount for line item (includes line discount but no line tax or order discount) for a cost item.
tdsls482.disc	Line Discount	24	19			Total discount amount on line item.
tdsls483.disc	Line + Order Discount	24	19			Total discount amount on line item for a cost item.

Conversion setup: 810 (Out)			Level: 7 Order line text - optional			
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdsls480.ttyp	Transaction Type	3	3			Needed for cash application if it is possible for same customer to have same invoice number under multiple transaction types.
tdsls480.invn	Invoice Number	4	8			
tdsls045.orno	Sales Order	5	6			
tdsls482.pono	Position Number	6	4			
tdsls041.txta	Order line text	7	80			One record is written for every two lines of order line text. Up to 100 ASCII records (user definable) can be written.

Appendix A Conversion setups

Conversion setup: 810 (Out)		Level: 8 Line's specific delivery address - optional				
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdsls480.ttyp	Transaction Type	3	3			Needed for cash application if it is possible for same customer to have same invoice number under multiple transaction types.
tdsls480.invn	Invoice Number	4	8			
tdsls045.orno	Sales Order	5	6			
tdsls482.pono	Position Number	6	4			
tcedi224.code	Code in Message	7	6		SSD	DEL if a delivery address; INV if postal (or invoice) address (defined in EDI address type codes).
tdsls042.ccty	Country	8	3	Country Codes	SSD	(for line item).
tdsls042.nama	Name	9	35		SSD	Customer's name (for line item).
tdsls042.namb	Name 2	10	30		SSD	Additional name (usually blank) (for line item).
tdsls042.namc	Address	11	30		SSD	(for line item).
tdsls042.namd	Address 2	12	30		SSD	(for line item).
tdsls042.name	City	13	30		SSD	Usually city, state (for line item).
tdsls042.namf	City 2	14	30		SSD	Usually zip code (for line item).
tdsls042.pstc	Zip Code	15	10		SSD	
" "	Constant	16	0			

## Conversion setup: 820, Remittance Advice

### In direction

Message: 820, Remittance Advice

Organization: X12

Field type: Delimited

**NOTE** Each level is shown in a separate table.

Conversion setup: Global overhead				Level: 1 Envelope - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tcedi702.reno	Relation	2	6			Relation's identification as defined in relation's network address.
tcedi702.msno	Order Reference	3	20			Relation's order number.
tcedi702.orga	Organization	5	3			
tcedi702.mess	EDI Message	6	6			
tcedi702.koor	Order Type	7	35			External reference of order type (code in message).
tcedi702.test	Test Message	8	5			
tcedi702.send	Date Sent	9	10			
tcedi702.sent	Time Sent	10	5			

Conversion setup: 820 (In)				Level: 2 Header - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tfcmg506.cuno	Customer	2	6	Yes		Defaults from global overhead record's relation.
tcedi702.msno	Order Reference	3	20			Relation's order number.
tfcmg506.stdt	Statement Date	4	10			

Conversion setup: 820 (In)				Level: 3 Line data - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tfcmg506.cuno	Customer	2	6	Yes		Defaults from global overhead record.
tcedi702.msno	Order Reference	3	20			Relation's order number.
tfcmg501.ttyp	Transaction Type	4	3			
tfcmg501.ninv	Document	5	15			
tfcmg501.docd	Document Date	6	10			
tfcmg501.trnd	Transaction Date	7	10			
tfcmg501.pref	Reference	8	35			
tfcmg501.desc	Description	9	35			
tfcmg501.bano	Bank Account	10	25			
tfcmg501.nama	Name	11	35			
tfcmg501.ccur	Currency	12	3	Currency Code		
tfcmg501.amnt	Amount	13	19			

### Out direction

Not available this release.

## Conversion setup: 850, Purchase Order

### In direction

Message: 850, Purchase Order

Organization: X12

Field type: Delimited

**NOTE** Each level is shown in a separate table.

Conversion setup: Global overhead				Level: 1 Envelope - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tcedi702.reno	Relation	2	6			Relation's identification as defined in relation's network address.
tcedi702.msno	Order Reference	3	20			Relation's order number.
tcedi702.orga	Organization	5	3			
tcedi702.mess	EDI Message	6	6			
tcedi702.koor	Order Type	7	35			External reference of order type (code in message).
tcedi702.test	Test Message	8	5			
tcedi702.send	Date Sent	9	10			
tcedi702.sent	Time Sent	10	5			

Appendix A Conversion setups

Conversion setup: 850 (In)				Level: 2 Order header - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tdsls040.cuno	Customer	2	6	Yes		Defaults from global overhead record.
tdsls040.eono	Customer Purchase Order Number	3	30			In BAAN IVb (standard), tcedi702.msno.
tdsls040.odat	Order Date	4	10			
tdsls040.ddat	Plan.Del.Date	5	10			
tdsls040.prdt	Planned Receipt Date	6	10			
tdsls040.refa	Reference A	7	30			
tdsls040.refb	Reference B	8	20			
tdsls040.prno	Contract	10	6	Sales Contract Codes		
tdsls040.cdec	Term of Delivery	11	3	Term of Delivery Codes		BAAN delivery code.
tdsls040.cfrw	Forwarding Agent	13	3	Forwarding Agent Codes		
tdsls040.ccrs	Late Payment Surcharge	15	3	Late Payment Surcharges		
tdsls040.cpay	Terms of Payment	17	3	Terms of Payment Codes		
tdsls040.ccur	Currency	22	3	Currency Codes		
tdsls040.ccty	Country	23	3	Country Codes		
tdsls040.clan	Language	24	3			
tdsls040.cpls	Sales Price List	25	3			
tdsls040.creg	Area	26	3			
tdsls040.cbrn	Line of Business	27	6			
tdsls040.odis	Order Discount	28	5			



Conversion setup: 850 (In)		Level: 3 Order header addresses - optional				
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tdsls040.cuno	Customer	2	6			Defaults from global overhead record.
tdsls040.eono	Customer Purchase Order Number	3	30			If BAAN IVb (standard), tcedi702.msno.
tdsls042.ckor	Delivery/Invoice Address	4	2			Indicates if delivery or invoice address as defined in Address Type Codes (defaults provided are DEL and INV).
tdsls042.ccty	Country	5	3	Country Codes		
tdsls042.nama	Name	6	35			
tdsls042.namb	Name 2	7	30			
tdsls042.namc	Address	8	30			
tdsls042.namd	Address 2	9	30			
tdsls042.name	City	10	30			
tdsls042.namf	City 2	11	30			
tdsls042.pstc	Zip Code	12	10			

**Appendix A Conversion setups**

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<b>Conversion setup: 850 (In)</b>				<b>Level: 4 Order header text - optional</b>		
<b>Field name</b>	<b>Description</b>	<b>Pos</b>	<b>Length</b>	<b>Conv.</b>	<b>Eval. expr.</b>	<b>Comments</b>
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tdsls040.cuno	Customer	2	6			Defaults from global overhead record.
tdsls040.eono	Customer Purchase Order Number	3	30			If BAAN IVb (standard), tcedi702.msno.
tdsls040.txta	Header Text	4	80			
tdsls040.txta	Header Text	5	80			

Conversion setup: 850 (In)				Level: 5 Order lines - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tdsls040.cuno	Customer	2	6			Defaults from global overhead record.
tdsls040.eono	Customer Purchase Order Number	3	30			If BAAN IVb (standard), tcedi702.msno.
tdsls041.epos	Customer Purchase Order Line	4	16			In BAAN IVb (standard), tcedi708.refn.
tdsls041.eseq	Customer Line Item Schedule Sequence	5	11			If trading partner's order line structure has subdelivery line numbers. In BAAN IVb, there is no equivalent field.
tdsls041.cprj	Project	6	6	Project Codes		
tdsls041.item	qual1	7	6			Item Code ID used to convert item code. Defaults to BP. If qual1 is ZZ, no conversion is performed.
tdsls041.item	Item	8	27	Yes		First converts to Alt. Item Codes (EDI); then to Alternative Item Codes.
tdsls041.cnt	Container	11	3			
tdsls041.oqua	Ordered Quantity	12	19			
tdsls041.odat	Order Date	13	10			
tdsls041.ddta	Planned Delivery Date	14	10			
tdsls041.prdt	Planned Receipt Date	15	10			
tdsls041.cuqs	Sales Unit	16	3	Unit Codes		Unit of measure sold/delivered.
tdsls041.pric	Price	17	19			
tdsls041.cups	Sales Price Unit	18	3	Unit Codes		Unit of measure for sales price.

**Appendix A Conversion setups**

<b>Conversion setup: 850 (In)</b>				<b>Level: 5 Order lines - mandatory</b>		
<b>Field name</b>	<b>Description</b>	<b>Pos</b>	<b>Length</b>	<b>Conv.</b>	<b>Eval. expr.</b>	<b>Comments</b>
tdsls041.disc	Discount Percentage	19	5			
tdsls041.scom	Ship Complete	21	5			
tdsls041.cdis	Discount Code	22	3	Discount Codes		
tdsls041.dmth	Discount Method	23	25			
tdsls041.ldam	Discount Amount	24	19			
tdsls041.lsel	Lot Selection	25	12			
tdsls041.clot	Lot	26	16			
tdsls041.leng	Length	27	8			
tdsls041.widt	Width	28	8			
tipcf500.dsca	Description	29	30			
tipcs020.dsca	Description	30	30			
tipcs020.dscb	Description	31	30			
tipcs020.dsc	Description	32	30			
tipcs020.dscd	Description	33	30			
tipcs020.refe	Reference	34	20			
tdsls041.thic	Thickness	35	8			

Conversion setup: 850 (In)			Level: 6 Order line text - optional			
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tdsls040.cuno	Customer	2	6			Defaults from global overhead record.
tdsls040.eono	Customer Purchase Order Number	3	30			If BAAN IVb (standard), tcedi702.msno.
tdsls041.epos	Customer Purchase Order Line I	4	16			In BAAN IVb (standard), tcedi708.refn.
tdsls041.txta	Order line text	5	80			Two text fields per ASCII file record; multiple ASCII file records can be read.
tdsls041.txta	Order line text	6	80			

**Appendix A Conversion setups**

<b>Conversion setup: 850 (In)</b>		<b>Level: 7 Line's specific delivery address - optional</b>				
<b>Field name</b>	<b>Description</b>	<b>Pos</b>	<b>Length</b>	<b>Conv.</b>	<b>Eval. expr.</b>	<b>Comments</b>
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tdsls040.cuno	Customer	2	6			Defaults from global overhead record.
tdsls040.eono	Customer Purchase Order Number	3	30			If BAAN IVb (standard), tcedi702.msno.
tdsls041.epos	Customer Purchase Order Line	4	16			In BAAN IVb (standard), tcedi708.refn.
tdsls042.ckor	Delivery/Invoice Address	5	2			Indicates if delivery or invoice address as defined in Address Type Codes (defaults provided are DEL and INV).
tdsls042.ccty	Country	6	3	Country Codes		
tdsls042.nama	Name	7	35			
tdsls042.namb	Name 2	8	30			
tdsls042.namc	Address	9	30			
tdsls042.namd	Address 2	10	30			
tdsls042.name	City	11	30			
tdsls042.namf	City 2	12	30			
tdsls042.pstc	Zip Code	13	10			

Conversion setup: 850 (In)		Level: 8 Product variant structure - optional				
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tdsls040.cuno	Customer	2	6			Defaults from global overhead record.
tdsls040.eono	Customer Purchase Order Number	3	30			If BAAN IVb (standard), tcedi702.msno.
tdsls041.epos	Customer Purchase Order Line I	4	16			In BAAN IVb (standard), tcedi708.refn.
tipcf510.opts	Option Set	5	3			
tipcf510.pcf1	Product Configuration	6	2			
tipcf510.item	qual11	7	16			
tipcf510.mitm	qual1	7	6			Item Code ID used to convert item code. Defaults to BP. If qual1 is ZZ, no conversion is performed.
tipcf510.item	Generic Item	8	6	Yes		First converts to Alt. Item Codes (EDI); then to Alternative Item Codes.
tipcf510.mitm	Manufactured Item Stack	9	16	Yes		First converts to Alt. Item Codes (EDI); then to Alternative Item Codes.
tipcf510.pono	Position Number Stack	10	4			
tipcf510.sern	Sequence Number Stack	11	3			

**Appendix A Conversion setups**

<b>Conversion setup: 850 (In)</b>		<b>Level: 9 Product variant options - optional</b>				
<b>Field name</b>	<b>Description</b>	<b>Pos</b>	<b>Length</b>	<b>Conv.</b>	<b>Eval. expr.</b>	<b>Comments</b>
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tdsls040.cuno	Customer	2	6			Defaults from global overhead record.
tdsls040.eono	Customer Purchase Order Number	3	30			If BAAN IVb (standard), tcedi702.msno.
tdsls041.epos	Customer Purchase Order Line I	4	16			In BAAN IVb (standard), tcedi708.refn.
tipcf510.opts	Option Set	5	3			
tipcf520.cpft	Product Feature	6	8			
tipcf520.sern	Sequence Number	7	3			
tipcf520.dsca	Description	8	30			
tipcf520.copt	Option	9	8			



Conversion setup: 850 (In)			Level: 10 Product variant text - optional			
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tdsls040.cuno	Customer	2	6			Defaults from global overhead record.
tdsls040.eono	Customer Purchase Order Number	3	30			If BAAN IVb (standard), tcedi702.msno.
tdsls041.epos	Customer Purchase Order Line	4	16			In BAAN IVb (standard), tcedi708.refn.
tipcf500.txta	Product Variant Text	6	80			Two text fields per ASCII file record; multiple ASCII file records can be read.
tipcf500.txta	Product Variant Text	7	80			

Conversion setup: 850 (In)			Level: 11 Product option set text - optional			
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tdsls040.cuno	Customer	2	6			Defaults from global overhead record.
tdsls040.eono	Customer Purchase Order Number	3	30			If BAAN IVb (standard), tcedi702.msno.
tdsls041.epos	Customer Purchase Order Line	4	16			In BAAN IVb (standard), tcedi708.refn.
tipcf510.opta	Option Set	5	3			
tipcf510.txta	Option Set Text	6	80			Two text fields per ASCII file record; multiple ASCII file records can be read.
tipcf510.txta	Option Set Text	7	80			

Appendix A Conversion setups

Conversion setup: 850 (In)			Level: 12 Variant option text - optional			
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tdsls040.cuno	Customer	2	6			Defaults from global overhead record.
tdsls040.eono	Customer Purchase Order Number	3	30			If BAAN IVb (standard), tcedi702.msno.
tdsls041.epos	Customer Purchase Order Line	4	16			In BAAN IVb (standard), tcedi708.refn.
tipcf510.opt	Option Set	5	3			
tipcf520.cpf	Product Feature	6	8			
tipcf520.txta	Product Variant Option Text	7	80			
tipcf520.txta	Product Variant Option Text	8	80			

Conversion setup: 850 (In)			Level: 13 Footer text - optional			
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tdsls040.cuno	Customer	2	6			Defaults from global overhead record.
tdsls040.eono	Customer Purchase Order Number	3	30			If BAAN IVb (standard), tcedi702.msno.
tdsls040.txtb	Footer Text	4	80			
tdsls040.txtb	Footer Text	5	80			

## Out direction

Message: 850, Purchase Order

Organization: X12

Field type: Delimited

NOTE Each level is shown in a separate table.

Conversion setup: Global overhead				Level: 1 Envelope - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdpur040.orno	Purchase Order	3	6			
tcedi028.neta	Network Address	4	17			External reference of Trading Partner (relation) ID number.
tcedi003.code	Code in Message	5	6			Organization (X12).
tcedi001.code	Code in Message	6	6			External reference of message identifier (850).
tcedi011.koor	Order Type	7	35			External reference of order type.
“ “	Constant	8	0			Record Identifier (EDI Overhead).
date()	Today's Date	9	0			Date message extracted from BAAN.
time()	Current Time	10	0			Time message extracted from BAAN.

Appendix A Conversion setups

Conversion setup: 850 (Out)				Level: 2 Order header - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdpur040.orno	Purchase Order	3	6			
tdpur040.odat	Order Date	4	10			
tdpur040.ddat	Delivery Date	5	10			
tdpur040.ddtc	Confirmed Delivery Date	6	10		CDH	
tdpur040.ddat	Delivery Date	6	10			
tdpur040.ddtc	Confirmed Delivery Date	7	10		CDH	
tdpur040.refa	Reference A	7	30			
tdpur040.refb	Reference B	8	20			
tccom001.nama	Name	9	35			Customer's name.
tdpur040.prno	Contract	10	6	Sales Contract Codes		
tdpur040.cdec	Term of Delivery	11	3	Terms of Delivery Codes		
tcmcs041.dsca	Description	12	30			
tdpur040.cfrw	Forwarding Agent	13	3	Forwarding Agent Codes		
tcmcs080.dsca	Description	14	30			
tdpur040.ccrs	Late Payment Surcharge	15	3	Late Payment Surcharges		
tcmcs011.dsca	Description	16	30			
tdpur040.cpay	Terms of Payment	17	3	Terms of Payment Codes		

Conversion setup: 850 (Out)				Level: 2 Order header - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tdpur040.cpay	Terms of Payment	17	3	Terms of Payment Codes		
tcmcs013.dsca	Description	18	30			
tcmcs013.pper	Payment Period	19	3			
tcmcs013.disa	Discount Period 1	20	3			Discount period.
tcmcs013.prca	Discount Percentage 1	21	5			
tdpur040.ccur	Currency	22	3	Currency Codes		
tdpur040.ccty	Country	23	3	Country Codes		
tdpur040.clan	Language	24	3			
tdpur040.cplp	Purchase Price List	25	3			
tdpur040.creg	Area	26	3			
tdpur040.cbrn	Line of Business	27	6			
tdpur040.odis	Order Discount	28	5			
tdpur040.cwar	Warehouse	29	3	Warehouse Address Codes		
tcedi224.code	Code in Message	30	6		PCD	DEL if a delivery address; INV if postal (or invoice) address (defined in EDI address type codes).
tcedi462.cuni	Address Code ID	31	6		PCD	

**NOTE** A maximum of two address records can be written: one with INV residing in position 4, indicating an invoice address, and one with DEL residing in position 4, indicating a delivery address.

For the invoice address on headers, the conversion setup gets the company address (table tcom000) first.

For the delivery address on headers:

- The conversion setup first checks if a delivery code is specified for the header (field tdpur040.cwar). If it exists, the address is taken from the Warehouse (tcmcs003) table. The evaluation expression is PCD.
- Then, if no delivery code is specified for the header (field tdpur040.cwar) and if no specific delivery address is defined for the header, the company address (table tcom000) is pulled. The evaluation expression is PDD.
- Otherwise, if there is a specific delivery address defined for the header, it is used (from table tdsls042).

Conversion setup: 850 (Out)		Level: 3 Order header addresses - optional				
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdpur040.orno	Purchase Order	3	6			
"INV"		4				Constant indicating invoice address.
tcedi224.code	Code in Message	4	6			DEL if a delivery address; INV if postal (or invoice) address (defined in EDI address type codes).
tccom000.ccty	Country	5	3	Country Codes		
tcmcs003.ccty					PCD	
tccom000.ccty					PDD	
tdpur042.ccty					PSD	
tccom000.nama	Company Name	6	35			Customer's name.
tcmcs003.nama	Name				PCD	
tccom000.nama	Company Name				PDD	
tdpur042.nama	Name				PSD	
tccom000.namb	Name 2	7	30			Additional name (usually blank).
tcmcs003.namb					PCD	
tccom000.namb					PDD	
tdpur042.namb					PSD	

Appendix A Conversion setups

Conversion setup: 850 (Out)		Level: 3 Order header addresses - optional				
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tccom000.namc	Address	8	30			
tcmcs003.namc					PCD	
tccom000.namc					PDD	
tdpur042.namc					PSD	
tccom000.namd	Address 2	9	30			
tcmcs003.namd					PCD	
tccom000.namd					PDD	
tdpur042.namd					PSD	
tccom000.name	City	10	30			Usually city, state.
tcmcs003.name					PCD	
tccom000.name					PDD	
tdpur042.name					PSD	
tccom000.namf	City 2	11	30			Usually zip code.
tcmcs003.namf					PCD	
tccom000.namf					PDD	
tdpur042.namf					PSD	
tccom000.pstc	Zip Code	12	10			
tcmcs003.pstc					PCD	
tccom000.pstc					PDD	
tdpur042.pstc					PSD	



Conversion setup: 850 (Out)				Level: 4 Order header text - optional		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdpur040.orno	Purchase Order	3	6			
tdpur040.txta	Header Text	4	80			One record is written for every two lines of header text. Up to 100 records (user definable) can be written.

Appendix A Conversion setups

Conversion setup: 850 (Out)				Level: 5 Order lines - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdpur040.orno	Purchase Order	3	6			
tdpur041.pono	Position Number	4	6			
tdpur041.cprj	Project	6	6			
tdpur041.item	qual1	7	6			Item Code ID used to convert item code; default value is BP.
tipcs021.dfit	qual1	7	6			Item Code ID used to convert standard item of origin; default value is BP.
tdpur041.item	Item	8	27	Alt. Item Codes (EDI)		
tipcs021.dfit	Standard Item of Origin	8	27	Alt. Item Codes (EDI)	PCI	
tdpur041.item	Item	9	27			Item is repeated in order to provide unconverted code; position 8 is converted.
tipcs021.dfit	Standard Item of Origin	9	27		PCI	Unconverted code.
tiitm001.dsca	Description	10	30			
tipcs021.dsca	Description	10	30		PCI	
tdpur041.cntr	Container	11	3			Record Identifier (EDI Overhead).
tdpur041.oqua	Ordered Quantity	12	19			
tdpur041.odat	Order Date	13	10			

Conversion setup: 850 (Out)				Level: 5 Order lines - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tdpur041.ddtb	Current Planned Delivery	14	10			
tdpur041.ddtc	Confirmed Delivery Date	14	10			
tdpur041.ddtb	Current Planned Delivery	15	10			
tdpur041.ddtc	Confirmed Delivery Date	15	10			
tdpur041.cuqp	Purchase Unit	16	3	Unit Codes		
tdpur041.pric	Price	17	19			
tdpur041.cupp	Purchase Price Unit	18	2	Unit Codes		
tdpur041.disc	Line Discount	19	5			
tdpur041.cvat	Tax Code	20	9	Tax Codes		
tdpur041.cvat	qual1	21	6			Tax code ID used to convert tax code.
tdpur041.cdis	Discount Code	22	3	Discount Codes		

**Appendix A Conversion setups**

<b>Conversion setup: 850 (Out)</b>				<b>Level: 5 Order lines - mandatory</b>		
<b>Field name</b>	<b>Description</b>	<b>Pos</b>	<b>Length</b>	<b>Conv.</b>	<b>Eval. expr.</b>	<b>Comments</b>
tdpur041.dmeth	Discount Method	23	25			
tdpur041.ldam	Order Line Discount Amount	24	19			
tdpur041.lsel	Lot Selection	25	12			
tdpur041.clot	Lot	26	16			
tdpur041.leng	Length	27	8			
tdpur041.widt	Width	28	8			
tipcf500.dsca	Description	29	30			
tipcs020.dsca	Description	30	30		CPV	
tipcs020.dscb	Description	31	30		CPV	
tipcs020.dsc	Description	32	30		CPV	
tipcs020.dscd	Description	33	30		CPV	
tipcs020.refe	Reference	34	20		CPV	
tdpur041.thic	Thickness	35	8			

Conversion setup: 850 (Out)			Level: 6 Order line text - optional			
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdpur040.orno	Purchase Order	3	6			
tdpur041.pono	Position Number	4	6			
tdpur041.txta	Order line text	5	80			Two text fields are written per ASCII file record (where each text field refers to a line of text on the order). Up to 100 records may be written.

For the delivery address on lines:

- The conversion setup first checks if a specific delivery address is specified for the line. If it exists, it is used (from table tds1s042). The evaluation expression is PSD.
- If no specific delivery address defined for the line and a warehouse has been defined, the address is taken from the Warehouse (tcmc003) table. The evaluation expression is PCL.

Appendix A Conversion setups

Conversion setup: 850 (Out)		Level: 7 Line's specific delivery address - optional				
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdpur040.orno	Purchase Order	3	6			
tdpur041.pono	Position Number	4	6			
tcedi224.code	Code in Message	5	6			
tdpur042.ccty	Country	6	3	Country Codes	PSD	
tcmcs003.ccty					PCL	
tdpur042.nama	Name	7	35		PSD	
tcmcs003.nama					PCL	
tdpur042.namb	Name 2	8	30		PSD	
tcmcs003.namb					PCL	
tdpur042.namc	Address	9	30		PSD	
tcmcs003.namc					PCL	
tdpur042.namd	Address 2	10	30		PSD	
tcmcs003.namd					PCL	
tdpur042.name	City	11	30		PSD	
tcmcs003.name					PCL	
tdpur042.namf	City 2	12	30		PSD	
tcmcs003.namf					PCL	
tdpur042.pstc	Zip Code	13	10		PSD	
tcmcs003.pstc					PCL	

Conversion setup: 850 (Out)		Level: 8 Product variant structure - optional				
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdpur040.orno	Purchase Order	3	6			
tdpur041.pono	Position Number	4	6			
tipcf510.opts	Option Set	5	3			
tipcf510.pcf1	Product Configuration L	6	2			
tipcf510.item	qualifier1	7	6			Item Code ID used to convert generic item (default is BP).
tipcf510.mitm	qualifier1	7	6			Item Code ID used to convert Manufactured Item Stack (default is BP).
tipcf510.item	Generic Item	8	16	Alt. Item Codes (EDI)		
tipcf510.mitm	Manufactured Item Stack	9	16	Alt. Item Codes (EDI)		
tipcf510.pono	Position Number Stack	10	4			
tipcf510.sern	Sequence Number Stack	11	3			

Conversion setup: 850 (Out)			Level: 9 Product variant options - optional			
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdpur040.orno	Purchase Order	3	6			
tdpur041.pono	Position Number	4	6			
tipcf510.opts	Option Set	5	3			
tipcf520.cpft	Product Feature	6	8			
tipcf520.sern	Sequence Number	7	3			
tipcf520.dsca	Description	8	30			
tipcf520.copt	Option	9	8			

Conversion setup: 850 (Out)			Level: 10 Product variant text - optional			
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdpur040.orno	Purchase Order	3	6			
tdpur041.pono	Position Number	4	6			
tipcf500.txta	Product variant text	5	80			One record is written for every two lines of internal text; up to 100 (user definable) ASCII file records.



Conversion setup: 850 (Out)			Level: 11 Variant option set text - optional			
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdpur040.orno	Purchase Order	3	6			
tdpur041.pono	Position Number	4	6			
tipcf510.opts	Option Set	5	3			
tipcf510.txta	Option Set Text	6	80			

Conversion setup: 850 (Out)			Level: 12 Variant option text - optional			
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdpur040.orno	Purchase Order	3	6			
tdpur041.pono	Position Number	4	6			
tipcf510.opts	Option Set	5	3			
tipcf520.cpft	Product Feature	6	8			
tipcf520.txta	Product Variant Option Text	80	80			

**Appendix A Conversion setups**

<b>Conversion setup: 850 (In)</b>				<b>Level: 13 Footer text - optional</b>		
<b>Field name</b>	<b>Description</b>	<b>Pos</b>	<b>Length</b>	<b>Conv.</b>	<b>Eval. expr.</b>	<b>Comments</b>
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdpur040.orno	Purchase Order	3	6			
tdsls040.txtb	Footer Text	4	80			One record is written for every two lines of internal text; up to 100 (user definable) ASCII file records.

## Conversion setup: 855, Purchase Order Acknowledgment

### In direction

Message: 855, Purchase Order Acknowledgment

Organization: X12

Field type: Delimited

**NOTE** Each level is shown in a separate table.

Conversion setup: Global overhead				Level: 1 Envelope - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tcedi702.reno	Relation	2	6			Relation's identification as defined in relation's network address.
tcedi702.msno	Order Reference	3	20			Relation's order number.
tcedi702.orga	Organization	5	3			
tcedi702.mess	EDI Message	6	6			
tcedi702.koor	Order Type	7	35			External reference of order type (code in message).
tcedi702.test	Test Message	8	5			
tcedi702.send	Date Sent	9	10			
tcedi702.sent	Time Sent	10	5			

**NOTE** There are two conversion setups for 855. The 855,U updates the purchase order with any changes indicated in the purchase order acknowledgment. The 855,C uses the data on the purchase order and purchase order acknowledgment to generate a report of the changes; it does not update the purchase order.

Appendix A Conversion setups

Conversion setup: 855,C and 855,U (In)				Level: 2 Order header - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tcedi702.reno	Relation	2	6			Relation's identification as defined in relation's network address.
tcedi702.msn o	Order Reference	3	20			Relation's order number.
tdpur040.orno	Purchase Order	4	6			
tdpur040.ddtc	Confirmed Delivery Date	6	10			
tdpur040.refa	Reference A	7	30			
tdpur040.refb	Reference B	8	20			
tdpur040.prno	Contract	10	6	Purchase Contract Codes		
tdpur040.cdec	Term of Delivery	11	3	Terms of Delivery Codes		
tdpur040.cfrw	Forwarding Agent	13	3	Forwarding Agent Codes		
tdpur040.ccrs	Late Payment Surcharge	15	3	Late Payment Surcharges		
tdpur040.cpay	Term of Payment	17	3	Terms of Payment Codes		
tdpur040.ccur	Currency	22	3	Currency Codes		

Conversion setup: 855,C and 855,U (In)				Level: 4 Order header text - optional		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tcedi702.reno	Relation	2	6			Relation's identification as defined in relation's network address.
tcedi702.msno	Order Reference	3	20			Relation's order number.
tdpur040.txta	Header Text	4	80			There are two text fields per ASCII file record; multiple text records can be read.
tdpur040.txta	Header Text	5	80			

Appendix A Conversion setups

Conversion setup: 855,C and 855,U (In)				Level: 5 Order lines - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tcedi702.reno	Relation	2	6			Relation's identification as defined in relation's network address.
tcedi702.msno	Order Reference	3	20			Relation's order number.
tcedi705.refn	Reference Line Number	4	10			Relation's order line (position) number.
tdpur041.pono	Position Number	5	4			
tdpur041.cprj	Project	6	6	Project Codes		
tdpur041.item	qual1	7	6			
tdpur041.item	Item	8	27	Yes		First converts against Alt. Item Codes (EDI); then by Alternative Item Codes.
tdpur041.cntr	Container	11	3			
tdpur041.oqua	Ordered Quantity	12	19			
tdpur041.cuqp	Purchase Unit	14	3	Unit Codes		
tdpur041.pric	Price	15	19			
tdpur041.cupp	Purchase Price Unit	16	3	Unit Codes		
tdpur041.disc	Line Discount	17	5			
tdpur041.amta	Amount	18	19			
tdpur041.ddtc	Confirmed Delivery Date	19	10			
tdpur041.cdis	Discount Code	21	3	Discount Codes		
tdpur041.dmth	Discount Method	22	25			
tdpur041.ldam	Order Line Discount Amount	23	19			
tdpur041.lsel	Lot Selection	24	12			
tdpur041.clot	Lot	25	16			

Conversion setup: 855,C and 855,U (In)				Level: 5 Order lines - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tdpur704.akcd	Acknowledgment Code	26	2	Ack. Codes		In BAAN IVb GLO, there is no equivalent field.
tdpur041.cvat	Tax Code	27	9	Tax Codes		
tdpur041.cvat	qual1	28	6			Tax code ID used to convert tax code; default is CD.

Conversion setup: 855,C and 855,U (In)				Level: 6 Order line text - optional		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tcedi702.reno	Relation	2	6			Relation's identification as defined in relation's network address.
tcedi702.msno	Order Reference	3	20			Relation's order number.
tcedi705.refn	Reference Line Number	4	10			Relation's order line (position) number.
tdpur041.txta	Order line text	5	80			There are two text fields per ASCII file record; multiple text records can be read.
tdpur041.txta	Order line text	6	80			

## Out direction

Message: 855, Purchase Order Acknowledgment

Organization: X12

Field type: Delimited

NOTE Each level is shown in a separate table.

Conversion setup: Global overhead				Level: 1 Envelope - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdpur040.orno	Purchase Order	3	6			
tcedi028.neta	Network Address	4	17			External reference of Trading Partner (relation) ID Number.
tcedi003.code	Code in Message	5	6			Organization (X12).
tcedi001.code	Code in Message	6	6			Message identifier (855).
tcedi011.koor	Order Type	7	35			External reference of order type.
	Constant	8	0			Record Identifier (EDI Overhead).
date()	Today's Date	9	0			Date message extracted from BAAN.
time()	Current Time	10	0			Time message extracted from BAAN.



Conversion setup: 855 (Out)				Level: 2 Order header - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdpur040.orno	Purchase Order	3	6			
tdsls040.eono	Customer Purchase Order	4	30			In BAAN IVb (standard), tcedi702.msno.
tdsls040.odat	Order Date	5	10			Date sales order created.
tdsls040.prdt	Planned Receipt Date	6	10			
tdsls040.refa	Reference A	7	30			
tdsls040.refb	Reference B	8	20			
tccom001.nama	Name	9	35			Customer's name.
tdsls040.prho	Contract	10	6	Sales Contract Codes		
tdsls040.cdec	Term of Delivery	11	3	Terms of Delivery Codes		BAAN delivery code.
tcmcs041.dsca	Description	12	30			
tdsls040.cfrw	Forwarding Agent	13	3	Forwarding Agent Codes		
tcmcs080.dsca	Description	14	30			
tdsls040.ccrs	Late Payment Surcharge	15	3	Late Payment Surcharges		

**Appendix A Conversion setups**

<b>Conversion setup: 855 (Out)</b>				<b>Level: 2 Order header - mandatory</b>		
<b>Field name</b>	<b>Description</b>	<b>Pos</b>	<b>Length</b>	<b>Conv.</b>	<b>Eval. expr.</b>	<b>Comments</b>
tcmcs011.dscs	Description	16	30			
tdsls040.cpay	Terms of Payment	17	3	Terms of Payment Codes		
tcmcs013.dscs	Description	18	30			
tcmcs013.pper	Payment Period	19	3			
tcmcs013.disa	Discount Period 1	20	3			Discount period.
tcmcs013.prca	Discount Percentage 1	21	5			
tdsls040.ccur	Currency	22	3	Currency Codes		
tdsls040.ccty	Country	23	3	Country Codes		
tdsls040.odis	Order Discount	24	5			
tdsls040.cdcl	Delivery Address	25	3	Delivery Address Codes		
tcedi224.code	Code in Message	26	6		SCD	DEL if a delivery address; INV if postal (or invoice) address (defined in EDI address type codes).
tcedi448.cuni	Address Code ID	27	6			
tdsls040.ccor	Postal Address	29	3	Postal Address Cds (Cust)		
tcedi224.code	Code in Message	30	6		SCP	DEL if a delivery address; INV if postal (or invoice) address (defined in EDI address type codes).
tcedi450.cuni	Address Code ID	31	6			

For the postal/invoice address (address type INV) on headers:

The conversion setup first checks if a postal code has been assigned to the sales order header (field tdsls040.ccor). If it exists, the address is taken from the tccom012 table. The evaluation expression is SCP.

Then, if specific postal address assigned to the sales order header, it is used (from table tdsls042). The evaluation expression is SSP.

Otherwise, if no postal address code or specific postal address is defined for the header, the customer address is used (from tccom010) The evaluation expression is SDP.

For the delivery address (address type DEL):

The conversion setup first checks if a delivery address code is defined for the sales order header. If it exists, the address is taken from the tccom013 table. The evaluation expression is SCD.

Then, if a specific delivery address assigned to the sales order header, it is used (from table tdsls042). The evaluation expression is SSD.

Otherwise, if no delivery address code or specific delivery address is defined for the header, the customer address is used (from tccom010). The evaluation expression is SDD.

Appendix A Conversion setups

Conversion setup: 855 (Out)		Level: 3 Order header addresses - optional				
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdpur040.orno	Purchase Order	3	6			
tcedi224.code	Code in Message	4	6			DEL if a delivery address; INV if postal (or invoice) address (defined in EDI address type codes).
tcedi224.code	Code in Message	4	6			DEL if a delivery address; INV if postal (or invoice) address (defined in EDI address type codes).
tccom012.ccty	Country	5	3	Country Codes	SCP	
tdsls042.ccty					SSP	
tccom010.ccty					SDP	
tccom013.ccty					SCD	
tccom010.ccty					SDD	
tccom012.nama					Name	
tdsls042.nama	SSP					
tccom010.nama	SDP					
tccom013.nama	SCD					
tccom010.nama	SDD					
tccom012.namb	Name 2	7	30			SCP
tdsls042.namb					SSP	
tccom010.namb					SDP	
tccom013.namb					SCD	
tccom010.namb					SDD	

Conversion setup: 855 (Out)		Level: 3 Order header addresses - optional				
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tccom012.namc	Address	8	30		SCP	
tdsls042.namc					SSP	
tccom010.namc					SDP	
tccom013.namc					SCD	
tccom010.namc					SDD	
tccom012.namd	Address 2	9	30		SCP	
tdsls042.namd					SSP	
tccom010.namd					SDP	
tccom013.namd					SCD	
tccom010.namd					SDD	
tccom012.name	City	10	30		SCP	Usually city, state.
tdsls042.name					SSP	
tccom010.name					SDP	
tccom010.name					SDD	
tccom012.namf	City 2	11	30		SCP	
tdsls042.namf					SSP	
tccom010.namf					SDP	
tccom010.namf					SDD	
tccom012.pstc	Zip Code	12	10		SCP	
tdsls042.pstc					SSP	
tccom010.pstc					SDP	
tccom010.pstc					SDD	
tccom012.fovn	Tax Number	13	20		SCP	
tdsls042.fovn	Tax No.				SSP	
tccom010.fovn	Tax Number				SDP	
tdsls042.fovn	Tax No.				SSD	
tccom010.fovn	Tax Number				SDD	

**Appendix A Conversion setups**

<b>Conversion setup: 855 (Out)</b>				<b>Level: 4 Order header text - optional</b>		
<b>Field name</b>	<b>Description</b>	<b>Pos</b>	<b>Length</b>	<b>Conv.</b>	<b>Eval. expr.</b>	<b>Comments</b>
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdpur040.orno	Purchase Order	3	6			
tdsls040.txta	Header Text	4	80			One record is written for every two lines of order header text; up to 100 records (user definable) can be written.

Conversion setup: 855 (Out)			Level: 5 Order lines - mandatory			
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdpur040.orno	Purchase Order	3	6			
tdsls041.pono	Position Number	4	4			
tdsls041.epos	Customer Purchase Order	5	16			In BAAN IVb (standard), tcedi708.refn.
tdsls041.cprj	Project	6	6	Project Codes		
tdsls041.item	qual1	7	6			Item Code ID used to convert item code (defaults to BP).
tdsls041.item	Item	8	27	Alt. Item Codes (EDI)		Converted item code.
tdsls041.item	Item	9	27			Item is repeated to include unconverted code (BAAN item code) as well.
tiitm001.dsca	Description	10	27			
tdsls041.cntr	Container	11	3			
tdsls041.oqua	Order Quantity	12	19			
tdsls041.bqua	Back Order	13	19			
tdsls041.cuqs	Sales Unit	14	3	Unit Codes		Unit of measure sold/delivered.
tdsls041.pric	Price	15	19			
tdsls041.cups	Sales Price Unit	16	3	Unit Codes		Unit of measure for sales price.
tdsls041.disc	Discount Percentage	17	5			
tdsls041.amta	Amount	18	19			
tdsls041.prdt	Planned Receipt Date	19	10			
tdsls041.odat	Order Date	20	10			

**Appendix A Conversion setups**

<b>Conversion setup: 855 (Out)</b>				<b>Level: 5 Order lines - mandatory</b>		
<b>Field name</b>	<b>Description</b>	<b>Pos</b>	<b>Length</b>	<b>Conv.</b>	<b>Eval. expr.</b>	<b>Comments</b>
tdsls041.cdis	Discount Code	21	3	Discount Codes		
tdsls041.dmeth	Discount Method	22	25			
tdsls041.ldam	Discount Amount	23	19			
tdsls041.lsel	Lot Selection	24	12			
tdsls041.clot	Lot	25	16			
tdsls703.ackd	Acknowledgment Code	26	2	Ack. Codes		This field is not available in BAAN IVb (standard).
tdsls041.cvat	Tax Code	27	9	Tax Codes		
tdsls041.cvat	qual1	28	6			Tax code ID used to convert tax codes; default is CD.

<b>Conversion setup: 855 (Out)</b>				<b>Level: 6 Order line text - optional</b>		
<b>Field name</b>	<b>Description</b>	<b>Pos</b>	<b>Length</b>	<b>Conv.</b>	<b>Eval. expr.</b>	<b>Comments</b>
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdpur040.orno	Purchase Order	3	6			
tdsls041.pono	Position Number	4	4			
tdsls041.txta	Order line text	5	80			One record is written for every two lines of order line text. Up to 100 ASCII records (user definable) can be written.



Conversion setup: 855 (Out)		Level: 7 Line's specific delivery address - optional				
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdpur040.orno	Purchase Order	3	6			
tdsls041.pono	Position Number	4	4			
tcedi224.code	Code in Message	5	6			DEL if a delivery address; INV if postal (or invoice) address (defined in EDI address type codes).
tdsls042.ccty	Country	6	3	Country Codes		
tdsls042.nama	Name	7	35			Customer's name.
tdsls042.namb	Name 2	8	30			Additional name (usually blank).
tdsls042.namc	Address	9	30			
tdsls042.namd	Address 2	10	30			
tdsls042.name	City	11	30			Usually city, state.
tdsls042.namf	City 2	12	30			
tdsls042.pstc	Zip Code	13	10			
“ “	Constant	14	0			

## Conversion setup: 856, Advance Shipping Notice (Standard)

### In direction

Message: 856, Advance Shipping Notice (Standard)

Organization: X12

Field type: Delimited

**NOTE** Each level is shown in a separate table.

Conversion setup: Global overhead				Level: 1 Envelope - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tcedi702.reno	Relation	2	6			Relation's identification as defined in relation's network address.
tcedi702.msno	Order Reference	3	20			Relation's order number.
tcedi702.orga	Organization	5	3			
tcedi702.mess	EDI Message	6	6			
tcedi702.koor	Order Type	7	35			External reference of order type (code in message).
tcedi702.test	Test Message	8	5			
tcedi702.send	Date Sent	9	10			
tcedi702.sent	Time Sent	10	5			

Conversion setup: 856 (In)				Level: 2 Dispatch Header - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tdpur400.suno	Supplier	2	6	Supplier Codes		
tdpur400.dino	Packing Slip Number	3	10			

Conversion setup: 856 (In)				Level: 3 Order lines - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tdpur400.suno	Supplier	2	6			
tdpur400.dino	Packing Slip Number	3	10			
tdpur400.orno	Purchase Order	6	6			
tdpur400.pono	Position Number	7	4			
tdpur400.date	Receipt Date	8	10			
tdpur400.oqua	Ordered Quantity	9	19			
tdpur400.bqua	Back Order Qty	10	19			
tdpur400.diqu	Quantity on Packing Slip	11	19			
tdpur041.cuqp	Purchase Unit	12	3	Yes		

Conversion setup: 856 (In)				Level: 4 Order line text - optional		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tdpur400.suno	Supplier	2	6			
tdpur400.dino	Packing Slip Number	3	10			
tdpur400.text	Dispatch Advice Text	6	80			There are two text fields per ASCII file record; multiple text records can be read.
tdpur400.text	Dispatch Advice Text	7	80			

## Out direction

Message: 856, Advance Shipping Notice (Standard)

Organization: X12

Field type: Delimited

NOTE Each level is shown in a separate table.

Conversion setup: Global overhead				Level: 1 Envelope - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdsls045.dino	Packing Slip Number	3	6			
tcedi028.neta	Network Address	4	17			External reference of Trading Partner (relation) ID Number.
tcedi003.code	Code in Message	5	6			Organization (X12).
tcedi001.code	Code in Message	6	6			External reference of message identifier (856).
tcedi011.koor	Order Type	7	35			External reference of order type.
“ “	Constant	8	0			Record Identifier (EDI Overhead).
date()	Today's Date	9	0			Date message extracted from BAAN.
time()	Current Time	10	0			Time message extracted from BAAN.

Conversion setup: 856 (Out)		Level: 2 Dispatch Header - mandatory				
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdsls045.dino	Packing Slip Number	3	6			
tcedi224.code	Code in Message	4	6			DEL if a delivery address; INV if postal (or invoice) address (defined in EDI address type codes).
tccom013.ccty	Country	5	3	Country Codes	SCD	
tccom010.ccty					SDD	
tdsls042.ccty					SSD	
tccom013.nama	Name	6	35		SCD	Customer's name.
tccom010.nama					SDD	
tdsls042.nama					SSD	
tccom013.namb	Name 2	7	30		SCD	Additional name (usually blank).
tccom010.namb					SDD	
tdsls042.namb					SSD	
tccom013.namc	Address	8	30		SCD	
tccom010.namc					SDD	
tdsls042.namc					SSD	
tccom013.namd	Address 2	9	30		SCD	
tccom010.namd					SDD	
tdsls042.namd					SSD	

Appendix A Conversion setups

Conversion setup: 856 (Out)			Level: 2 Dispatch Header - mandatory			
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tccom013.name	City	10	30		SCD	Usually city, state.
tccom010.name					SDD	
tdsls042.name					SSD	
tccom013.namf	City 2	11	30		SCD	
tccom010.namf					SDD	
tdsls042.namf					SSD	
tccom013.pstc	Zip Code	12	10		SCD	
tccom010.pstc					SDD	
tdsls042.pstc					SSD	
tccom013.fovn	Tax Number	13	20		SCD	
tccom010.fovn	Tax Number				SDD	
tdsls042.fovn	Tax No.				SSD	
tdsls040.cdcl	Delivery Address	14	3	Delivery Address Codes		
tcedi448.cuni	Address Code ID	15	6			

Conversion setup: 856 (Out)				Level: 3 Order lines - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdsls045.dino	Packing Slip Number	3	6			
tdsls045.orno	Sales Order	4	6			
tdsls045.pono	Position Number	5	4			
tdsls040.eono	Customer Purchase Order	6	30			In BAAN IVb (standard), tcedi702.msno.
tdsls041.epos	Customer Purchase Order	7	16			In BAAN IVb (standard), tcedi708.refn.
tdsls045.ddat	Delivery Date	8	10			Date shipped.
tdsls045.oqua	Ordered Quantity	9	19			
tdsls045.bqua	Back Order	10	19			
tdsls045.dqua	Delivered Quantity	11	19			
tdsls041.cuqs	Sales Unit	12	3	Unit Codes		Unit of measure sold/delivered.
tdsls041.pric	Price	13	19			
tdsls041.cups	Sales Price Unit	14	3	Unit Codes		Unit of measure for sales price.
tdsls040.odat	Order Date	15	10			Date sales order created.
tdsls040.ddat	Plan.Del.Date	16	10			
tdsls040.refa	Reference A	17	30			
tdsls040.refb	Reference B	18	20			
tccom001.nama	Name	19	35			Customer's name.
tdsls040.prho	Contract	20	6	Sales Contract Codes		

**Appendix A Conversion setups**

<b>Conversion setup: 856 (Out)</b>				<b>Level: 3 Order lines - mandatory</b>		
<b>Field name</b>	<b>Description</b>	<b>Pos</b>	<b>Length</b>	<b>Conv.</b>	<b>Eval. expr.</b>	<b>Comments</b>
tdsls040.cdec	Term of Delivery	21	3	Terms of Delivery Codes		BAAN delivery code.
tcmcs041.dsca	Description	22	30			
tdsls040.cfrw	Forwarding Agent	23	3	Forwarding Agent Codes		
tcmcs080.dsca	Description	24	30			
tdsls041.cprj	Project	25	6	Project Codes		
tdsls041.item	qual1	26	6			Item Code ID used to convert item code (defaults to BP).
tdsls041.item	Item	27	27	Alt. Item Codes (EDI)		Converted item code.
tiitm001.dsca	Description	28	30			
tdsls041.item	Item	29	27			Item is repeated to include unconverted code (BAAN item code) as well.
tdsls045.fono	Bill of Lading Number	30	80			



Conversion setup: 856 (Out)			Level: 4 Order line text - optional			
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdsls045.dino	Packing Slip Number	3	6			
tdsls045.orno	Sales Order	4	6			
tdsls045.pono	Position Number	5	4			
tdsls041.txta	Order line text	6	80			One record is written for every two lines of order line text. Up to 100 ASCII records (user definable) can be written.

## Conversion setup: 860, Purchase Order Change

This conversion setup is only available in BAAN IVb GLO and BAAN IVc.

### In direction

Message: 860, Purchase Order Change

Organization: X12

Field type: Delimited

**NOTE** Each level is shown in a separate table.

Conversion setup: Global overhead				Level: 1 Envelope - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tcedi702.reno	Relation	2	6			Relation's identification as defined in relation's network address.
tcedi702.msno	Order Reference	3	20			Relation's order number.
tcedi702.orga	Organization	5	3			
tcedi702.mess	EDI Message	6	6			
tcedi702.koor	Order Type	7	35			External reference of order type (code in message).
tcedi702.test	Test Message	8	5			
tcedi702.send	Date Sent	9	10			
tcedi702.sent	Time Sent	10	5			

Conversion setup: 860 (In)				Level: 2 Order header - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tdsls040.cuno	Customer	2	6	Yes		Defaults from global overhead record.
tdsls040.eono	Customer Purchase Order	3	30			In BAAN IVb (standard), tcedi702.msno.
tdsls050.cosn	Change Order Sequence Number	4	8			
tdsls050.ctcd	Change Type Code	5	3	Change Type Codes		
tdsls050.crcd	Change Reason Code	6	3	Change Reason Codes		
tdsls040.prdt	Planned Receipt Date	8	10			
tdsls040.refa	Reference A	9	30			
tdsls040.refb	Reference B	10	20			
tdsls040.prno	Contract	12	6	Sales Contract Codes		
tdsls040.cdec	Term of Delivery	13	3	Terms of Delivery Codes		BAAN delivery code.
tdsls040.cfrw	Forwarding Agent	15	3	Forwarding Agent Codes		
tdsls040.ccrs	Late Payment Surcharge	17	3	Late Payment Surcharges		

**Appendix A Conversion setups**

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<b>Conversion setup: 860 (In)</b>				<b>Level: 2 Order header - mandatory</b>		
<b>Field name</b>	<b>Description</b>	<b>Pos</b>	<b>Length</b>	<b>Conv.</b>	<b>Eval. expr.</b>	<b>Comments</b>
tdsls040.cpay	Terms of Payment	19	3	Terms of Payment Codes		
tdsls040.ccur	Currency	24	3	Currency Codes		
tdsls040.ccty	Country	25	3	Country Codes		
tdsls040.clan	Language	26	3			
tdsls040.cpls	Sales Price List	27	3			
tdsls040.creg	Area	28	3			
tdsls040.cbrn	Line of Business	29	6			
tdsls040.odis	Order Discount	30	5			

Conversion setup: 860 (In)		Level: 3 Order header addresses - optional				
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tdsls040.cuno	Customer	2	6			Defaults from global overhead record.
tdsls040.eono	Customer Purchase Order	3	30			In BAAN IVb (standard), tcedi702.msno.
tdsls042.ckor	Delivery / Invoice Address	4	2			Indicates if delivery or invoice address as defined in Address Type Codes (defaults provided are DEL and INV).
tdsls042.ccty	Country	5	3	Country Codes		
tdsls042.nama	Name	6	35			
tdsls042.namb	Name 2	7	30			
tdsls042.namc	Address	8	30			
tdsls042.namd	Address 2	9	30			
tdsls042.name	City	10	30			
tdsls042.namf	City 2	11	30			
tdsls042.pstc	Zip Code	12	10			

**Appendix A Conversion setups**

<b>Conversion setup: 860 (In)</b>				<b>Level: 4 Order header text - optional</b>		
<b>Field name</b>	<b>Description</b>	<b>Pos</b>	<b>Length</b>	<b>Conv.</b>	<b>Eval. expr.</b>	<b>Comments</b>
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tdsls040.cuno	Customer	2	6			Defaults from global overhead record.
tdsls040.eono	Customer Purchase Order	3	30			In BAAN IVb (standard), tcedi702.msno.
tdsls040.txta	Header Text	4	80			There are two text fields per ASCII file record; multiple text records can be read.
tdsls040.txta	Header Text	5	80			

Conversion setup: 860 (In)				Level: 5 Order lines - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tdsls040.cuno	Customer	2	6			Defaults from global overhead record.
tdsls040.eono	Customer Purchase Order	3	30			In BAAN IVb (standard), tcedi702.msno.
tdsls041.epos	Customer Purchase Order	4	16			In BAAN IVb (standard), tcedi708.refn.
tdsls041.eseq	Customer Line Item Schedule	5	11			In BAAN IVb, there is no equivalent field.
tdsls041.item	qualifier1	6	6			Item Code ID used to convert item code. Defaults to BP. If qualifier1 is ZZ, no conversion is performed.
tdsls051.ctcd	Change Type Code	6	3	Change Type Codes		
tdsls051.crcd	Change Reason Code	7	3	Change Reason Codes		
tdsls041.cprj	Project	8	6	Project Codes		
tdsls041.item	Item	10	27			
tdsls041.cntr	Container	13	3			
tdsls041.oqua	Ordered Quantity	14	19			
tdsls041.prdt	Planned Receipt Date	16	10			
tdsls041.cuqs	Sales Unit	17	3	Unit Codes		Unit of measure sold/delivered.
tdsls041.pric	Price	18	19			
tdsls041.cups	Sales Price Unit	19	3	Unit Codes		Unit of measure for sales price.
tdsls041.disc	Discount percentage	20	5			
tdsls041.scom	Ship Complete	22	5			
tdsls041.cdiss	Discount Code	23	3	Discount Codes		

**Appendix A Conversion setups**

<b>Conversion setup: 860 (In)</b>				<b>Level: 5 Order lines - mandatory</b>		
<b>Field name</b>	<b>Description</b>	<b>Pos</b>	<b>Length</b>	<b>Conv.</b>	<b>Eval. expr.</b>	<b>Comments</b>
tdsls041.dmeth	Discount Method	24	25			
tdsls041.ldam	Discount Amount	25	19			
tdsls041.lsel	Lot Selection	26	12			
tdsls041.clot	Lot	27	16			
tdsls041.leng	Length	28	8			
tdsls041.widt	Width	29	8			
tdsls041.thic	Thickness	30	8			

<b>Conversion setup: 860 (In)</b>				<b>Level: 6 Order line text - optional</b>		
<b>Field name</b>	<b>Description</b>	<b>Pos</b>	<b>Length</b>	<b>Conv.</b>	<b>Eval. expr.</b>	<b>Comments</b>
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tdsls040.cuno	Customer	2	6			Defaults from global overhead record.
tdsls040.eono	Customer Purchase Order	3	30			In BAAN IVb (standard), tcedi702.msno.
tdsls041.epos	Customer Purchase Order	4	16			In BAAN IVb (standard), tcedi708.refn.
tdsls041.txta	Order line text	5	80			Two text fields per ASCII file record; multiple ASCII file records can be read.
tdsls041.txta	Order line text	6	80			



Conversion setup: 860 (In)		Level: 7 Line's specific delivery address - optional				
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tdsls040.cuno	Customer	2	6			Defaults from global overhead record.
tdsls040.eono	Customer Purchase Order	3	30			In BAAN IVb (standard), tcedi702.msno.
tdsls041.epos	Customer Purchase Order	4	16			In BAAN IVb (standard), tcedi708.refn.
tdsls042.ckor	Delivery / Invoice Address	5	2			Indicates if delivery or invoice address as defined in Address Type Codes (defaults provided are DEL and INV).
tdsls042.ccty	Country	6	3	Country Codes		
tdsls042.nama	Name	7	35			
tdsls042.namb	Name 2	8	30			
tdsls042.namc	Address	9	30			
tdsls042.namd	Address 2	10	30			
tdsls042.name	City	11	30			
tdsls042.namf	City 2	12	30			
tdsls042.pstc	Zip Code	13	10			

### Out direction

Message: 860, Purchase Order Change

Organization: X12

Field type: Delimited

NOTE Each level is shown in a separate table.

Conversion setup: Global overhead				Level: 1 Envelope - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdpur040.orno	Purchase Order	3	6			
tcedi028.neta	Network Address	4	17			External reference of Trading Partner (relation) ID Number.
tcedi003.code	Code in Message	5	6			Organization (X12).
tcedi001.code	Code in Message	6	6			Message identifier (860).
tcedi011.koor	Order Type	7	35			External reference of order type (code in message).
“ “	Constant	8	0			Record Identifier (EDI Overhead).
date()	Today's Date	9	0			Date message extracted from BAAN.
time()	Current Time	10	0			Time message extracted from BAAN.

Conversion setup: 860 (Out)			Level: 2 Order header - mandatory			
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdpur040.orno	Purchase Order	3	6			
tdpur703.cosn	Change Order Sequence Number	4	8			
tdpur703.ctcd	Change Type Code	5	3	Change Type Codes		
tdpur703.crcd	Change Reason Code	6	3	Change Reason Codes		
tdpur040.odat	Order Date	7	10			
tdpur040.ddat	Delivery Date	8	10			

Appendix A Conversion setups

Conversion setup: 860 (Out)				Level: 2 Order header - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tdpur040.ddtc	Confirmed Delivery Date	8	10		CDH	
tdpur040.refa	Reference A	9	30			
tdpur040.refb	Reference B	10	20			
tccom001.nama	Name	11	35			Customer's name.
tdpur040.prho	Contract	12	6	Sales Contract Codes		
tdpur040.cdec	Term of Delivery	13	3	Terms of Delivery Codes		
tcmcs041.dsca	Description	14	30			
tdpur040.cfrw	Forwarding Agent	15	3	Forwarding Agent Codes		
tcmcs080.dsca	Description	16	30			
tdpur040.ccrs	Late Payment Surcharge	17	3	Late Payment Surcharges		
tcmcs011.dsca	Description	18	30			
tdpur040.cpay	Terms of Payment	19	3	Terms of Payment Codes		
tcmcs013.dsca	Description	20	30			
tcmcs013.pper	Payment Period	21	3			
tcmcs013.disa	Discount Period 1	22	3			Discount period.
tcmcs013.prca	Discount Percentage 1	23	5			
tdpur040.ccur	Currency	24	3	Currency Codes		
tdpur040.ccty	Country	25	3	Country Codes		
tdpur040.clan	Language	26	3			
tdpur040.cplp	Purchase Price List	27	3			
tdpur040.creg	Area	28	3			

Conversion setup: 860 (Out)				Level: 2 Order header - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tdpur040.cbrn	Line of Business	29	6			
tdpur040.odis	Order Discount	30	5			
tdpur040.cwar	Warehouse	31	3	Warehouse Address Codes		
tcedi224.code	Code in Message	32	6		PCD	DEL if a delivery address; INV if postal (or invoice) address (defined in EDI address type codes).
tcedi462.cuni	Address Code ID	33	6		PCD	

Appendix A Conversion setups

Conversion setup: 860 (Out)		Level: 3 Order header addresses - optional				
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdpur040.orno	Purchase Order	3	6			
"INV"	Constant	4	0			
tcedi224.code	Code in Message	4	6			DEL if a delivery address; INV if postal (or invoice) address (defined in EDI address type codes).
tccom000.ccty	Country	5	3	Country Codes		
tcmcs003.ccty					PCD	
tccom000.ccty					PDD	
tdpur042.ccty					PSD	
tccom000.nama	Company Name	6	35			
tcmcs003.nama	Name				PCD	
tccom000.nama	Company Name				PDD	
tdpur042.nama	Name				PSD	
tccom000.namb	Name 2	7	30			
tcmcs003.namb					PCD	
tccom000.namb					PDD	
tdpur042.namb					PSD	
tccom000.namc	Address	8	30			
tcmcs003.namc					PCD	
tccom000.namc					PDD	
tdpur042.namc					PSD	

Conversion setup: 860 (Out)			Level: 3 Order header addresses - optional			
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tccom000.namd	Address 2	9	30			
tcmcs003.namd					PCD	
tccom000.namd					PDD	
tdpur042.namd					PSD	
tccom000.name	City	10	30			
tcmcs003.name					PCD	
tccom000.name					PDD	
tdpur042.name					PSD	
tccom000.namf	City 2	11	30			
tcmcs003.namf					PCD	
tccom000.namf					PDD	
tdpur042.namf					PSD	
tccom000.pstc	Zip Code	12	10			
tcmcs003.pstc					PCD	
tccom000.pstc					PDD	
tdpur042.pstc					PSD	

Conversion setup: 860 (Out)			Level: 4 Order header text - optional			
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tdpur040.txta	Header Text	4	80			One record is written for every line of header text. Up to 100 lines (user definable) can be extracted.

**Appendix A Conversion setups**

<b>Conversion setup: 860 (Out)</b>			<b>Level: 5 Order lines - mandatory</b>			
<b>Field name</b>	<b>Description</b>	<b>Pos</b>	<b>Length</b>	<b>Conv.</b>	<b>Eval. expr.</b>	<b>Comments</b>
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdpur040.orno	Purchase Order	3	6			
tdpur041.pono	Position Number	4	6			
" "	Constant	5				
tdpur703.ctcd	Change Type Code	6	3	Change Type Codes		
tdpur703.crcd	Change Reason Code	7	3	Change Reason Codes		
tdpur041.cprj	Project	8	6			
tdpur041.item	qual1	9	6			Item Code ID used to convert item code; default value is BP.
tipcs021.dfit	qual1	9	6			Item Code ID used to convert standard item of origin; default value is BP.
tdpur041.item	Item	10	27	Alt. Item Codes (EDI)		Converted item.
tipcs021.dfit	Standard Item of Origin	10	27	Alt. Item Codes (EDI)	PCI	Converted item.
tdpur041.item	Item	11	27			Item is repeated in order to provide unconverted code; position 8 is converted.
tipcs021.dfit	Standard Item of Origin	11	27		PCI	Unconverted code.



Conversion setup: 860 (Out)				Level: 5 Order lines - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tiitm001.dsca	Description	12	30			
tipcs021.dsca	Description	12	30		PCI	
tdpur041.cntr	Container	13	3			
tdpur041.oqua	Ordered Quantity	14	19			
tdpur041.odat	Order Date	15	10			
tdpur041.ddtb	Current Planned Delivery	16	10			
tdpur041.ddtc	Confirmed Delivery Date	16	10			
tdpur041.cuqp	Purchase Unit	17	3	Unit Codes		
tdpur041.pric	Price	18	19			
tdpur041.cupp	Purchase Price Unit	19	2	Unit Codes		
tdpur041.disc	Line Discount	20	5			
tdpur041.cvat	Tax Code	21	9	Tax Codes		
tdpur041.cvat	qual1	22	6			Tax code ID used to convert tax code; defaults to CD.
tdpur041.cdis	Discount Code	23	3			
tdpur041.dmth	Discount Method	24	25			
tdpur041.ldam	Order Line Discount Amount	25	19			
tdpur041.lsel	Lot Selection	26	12			
tdpur041.clot	Lot	27	16			
tdpur041.leng	Length	28	8			
tdpur041.widt	Width	29	8			
tdpur041.thic	Thickness	30	8			

**Appendix A Conversion setups**

<b>Conversion setup: 860 (Out)</b>			<b>Level: 6 Order line text- optional</b>			
<b>Field name</b>	<b>Description</b>	<b>Pos</b>	<b>Length</b>	<b>Conv.</b>	<b>Eval. expr.</b>	<b>Comments</b>
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdpur040.orno	Purchase Order	3	6			
tdpur041.pono	Position Number	4	6			
tdpur041.txta	Order line text	5	0			One record is written for every line of header text. Up to 100 lines (user definable) can be extracted.

Conversion setup: 860 (Out)		Level 7 Line's specific delivery address - optional				
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdpur040.orno	Purchase Order	3	6			
tdpur041.pono	Position Number	4	6			
tcedi224.code	Code in Message	5	6		PSD	Indicates type of address to follow: DEL for delivery (as defined in Address Types).
tdpur042.ccty	Country	6	3	Country Codes	PSD	
tdpur042.ccty	Country	6	3	Country Codes	PSD	
tcmcs003.ccty					PCL	
tdpur042.nama	Name	7	35		PSD	
tcmcs003.nama					PCL	
tdpur042.namb	Name 2	8	30		PSD	
tcmcs003.namb					PCL	
tdpur042.namc	Address	9	30		PSD	
tcmcs003.namc					PCL	
tdpur042.namd	Address 2	10	30		PSD	
tcmcs003.namd					PCL	
tdpur042.name	City	11	30		PSD	
tcmcs003.name					PCL	
tdpur042.namf	City 2	12	30		PSD	
tcmcs003.namf					PCL	
tdpur042.pstc	Zip Code	13	10		PSD	
tcmcs003.pstc					PCL	
“ “	Constant	14	0			

## Conversion setup: 865, Purchase Order Change Acknowledgment

This conversion setup is only available in BAAN IVb GLO and BAAN IVc.

### In direction

Message: 865, Purchase Order Change Acknowledgment

Organization: X12

Field type: Delimited

**NOTE** Each level is shown in a separate table.

Conversion setup: Global overhead				Level: 1 Envelope - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tcedi702.reno	Relation	2	6			Relation's identification as defined in relation's network address.
tcedi702.msno	Order Reference	3	20			Relation's order number.
tcedi702.orga	Organization	5	3			
tcedi702.mess	EDI Message	6	6			Message code
tcedi702.koor	Order Type	7	35			External reference of order type (code in message).
tcedi702.test	Test Message	8	5			
tcedi702.send	Date Sent	9	10			
tcedi702.sent	Time Sent	10	5			

**NOTE** There are two conversion setups for 865. The 865,U updates the purchase order with any changes indicated in the purchase order acknowledgment. The 865,C uses the data on the purchase order and purchase order acknowledgment to generate a report of the changes; it does not update the purchase order.

Conversion setup: 865,C and 865,U (In)				Level: 2 Order header - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tcedi702.reno	Relation	2	6			Relation's identification as defined in relation's network address
tcedi702.msno	Order Reference	3	20			Relation's order number.
tdpur040.orno	Purchase Order	4	6			
tdpur040.ddtc	Confirmed Delivery Date	6	10			
tdpur040.refa	Reference A	7	30			
tdpur040.refb	Reference B	8	20			
tdpur040.prno	Contract	10	6	Yes		
tdpur040.cdec	Term of Delivery	11	3	Yes		
tdpur040.cfrw	Forwarding Agent	13	3	Yes		
tdpur040.ccrs	Late Payment Surcharge	15	3	Yes		
tdpur040.cpay	Term of Payment	17	3	Yes		
tdpur040.ccur	Currency	22	3	Yes		
tdpur704.cosn	Change Order Sequence Number	28	8			

Conversion setup: 865,C and 865,U (In)				Level: 3 Order Addresses - optional		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tcedi702.reno	Relation	2	6			Relation's identification as defined in relation's network address.
tcedi702.msno	Order Reference	3	20			Relation's order number.

**Appendix A Conversion setups**

<b>Conversion setup: 865,C and 865,U (In)</b>				<b>Level: 4 Order header text - optional</b>		
<b>Field name</b>	<b>Description</b>	<b>Pos</b>	<b>Length</b>	<b>Conv.</b>	<b>Eval. expr.</b>	<b>Comments</b>
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tcedi702.reno	Relation	2	6			Relation's identification as defined in relation's network address.
tcedi702.msno	Order Reference	3	20			Relation's order number.
tdpur040.txta	Header Text	4	80			There are two text fields per ASCII file record; multiple text records can be read.
tdpur040.txta	Header Text	5	80			

Conversion setup: 865,C and 865,U (In)				Level: 5 Order lines - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tcedi702.reno	Relation	2	6			Relation's identification as defined in relation's network address.
tcedi702.msno	Order Reference	3	20			Relation's order number.
tcedi705.refn	Reference Line Number	4	10			
tdpur041.pono	Position Number	5	4			
tdpur041.cprj	Project	6	6	Yes		
tdpur041.item	qualifier1	7	6			Item Code ID used to convert item code. Defaults to BP. If qualifier1 is ZZ, no conversion is performed.
tdpur041.item	Item	8	27	Yes		
tdpur041.cntn	Container	11	3			
tdpur041.oqua	Ordered Quantity	12	19			
tdpur041.cuqp	Purchase Unit	14	3	Yes		
tdpur041.pric	Price	15	19			
tdpur041.cupp	Purchase Price Unit	16	3	Yes		
tdpur041.disc	Line Discount	17	5			
tdpur041.amta	Amount	18	19			
tdpur041.ddtc	Confirmed Delivery Date	19	10			
tdpur041.cdsc	Discount Code	21	3	Yes		
tdpur041.dmtb	Discount Method	22	25			
tdpur041.lscm	Order Line Discount Amount	23	19			
tdpur041.lsel	Lot Selection	24	12			
tdpur041.clot	Lot	25	16			

**Appendix A Conversion setups**

<b>Conversion setup: 865,C and 865,U (In)</b>				<b>Level: 5 Order lines - mandatory</b>		
<b>Field name</b>	<b>Description</b>	<b>Pos</b>	<b>Length</b>	<b>Conv.</b>	<b>Eval. expr.</b>	<b>Comments</b>
tdpur704.akcd	Acknowledgment Code	26	2	Yes		
tdpur704.ctcd	Change Type Code	27	3	Yes		
tdpur704.crcd	Change Reason Code	28	3	Yes		
tdpur041.cvat	Tax Code	29	9	Yes		
tdpur041.cvat	qual1	30	6			Tax code ID used to convert tax code; defaults to CD.

<b>Conversion setup: 865,C and 865,U (In)</b>				<b>Level: 6 Order line text - optional</b>		
<b>Field name</b>	<b>Description</b>	<b>Pos</b>	<b>Length</b>	<b>Conv.</b>	<b>Eval. expr.</b>	<b>Comments</b>
tcedi702.bano	Message Reference	1	35			Unique message reference. Must be unique for relation.
tcedi702.reno	Relation	2	6			Relation's identification as defined in relation's network address.
tcedi702.msno	Order Reference	3	20			Relation's order number.
tcedi705.refn	Reference Line Number	4	10			
tdpur041.txta	Order line text	5	80			There are two text fields per ASCII file record; multiple text records can be read.
tdpur041.txta	Order line text	6	80			



## Out direction

Message: 865, Purchase Order Change Acknowledgment

Organization: X12

Field type: Delimited

**NOTE** Each level is shown in a separate table.

Conversion setup: Global overhead				Level: 1 Envelope - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdsls040.orno	Sales Order	3	6			
tcedi028.neta	Network Address	4	17			Relation's network address.
tcedi003.code	Code in Message	5	6			Organization (X12).
tcedi001.code	Code in Message	6	6			Message identifier (865).
tcedi011.koor	Order Type	7	35			External reference of order type.
“ “	Constant	8	0			Record Identifier (EDI Overhead).
date()	Today's Date	9	0			Date message extracted from BAAN.
time()	Current Time	10	0			Time message extracted from BAAN.

Appendix A Conversion setups

Conversion setup: 865 (Out)				Level: 2 Order header - mandatory		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdsls040.orno	Sales Order	3	6			
tdsls040.eono	Customer Purchase Order	4	30			In BAAN IVb (standard), tcedi702.msno.
tdsls040.odat	Order Date	5	10			Date sales order created.
tdsls040.prdt	Planned Receipt Date	6	10			
tdsls040.refa	Reference A	7	30			
tdsls040.refb	Reference B	8	20			
tccom001.nama	Name	9	35			Customer's name.
tdsls040.prho	Contract	10	6	Sales Contract Codes		
tdsls040.cdec	Term of Delivery	11	3	Terms of Delivery Codes		BAAN delivery code.
tcmcs041.dsca	Description	12	30			
tdsls040.cfrw	Forwarding Agent	13	3	Forwarding Agent Codes		
tcmcs080.dsca	Description	14	30			
tdsls040.ccrs	Late Payment Surcharge	15	3	Late Payment Surcharges		
tcmcs011.dsca	Description	16	30			

Conversion setup: 865 (Out)			Level: 2 Order header - mandatory			
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tdsls040.cpay	Terms of Payment	17	3	Terms of Payment Codes		
tcmcs013.dsca	Description	18	30			
tcmcs013.pper	Payment Period	19	3			
tcmcs013.disa	Discount Period 1	20	3			Discount period.
tcmcs013.prca	Discount Percentage 1	21	5			
tdsls040.ccur	Currency	22	3	Currency Codes		
tdsls040.ccty	Country	23	3	Country Codes		
tdsls040.odis	Order Discount	24	5			
tdsls040.cdel	Delivery Address	25	3	Delivery Address Codes		
tcedi224.code	Code in Message	26	6		SCD	Address type: DEL if a delivery address; INV if postal (or invoice) address (defined in EDI address type codes).
tcedi448.cuni	Address Code ID	27	6			
tdsls703.cosn	Change Order Sequence Number	28	8			
tdsls040.ccor	Postal Address	29	3	Postal Address Cds (Cust)		
tcedi224.code	Code in Message	30	6		SCP	DEL if a delivery address; INV if postal (or invoice) address (defined in EDI address type codes).
tcedi450.cuni	Address Code ID	31	6			

Appendix A Conversion setups

Conversion setup: 865 (Out)		Level: 3 Order header addresses - optional				
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdsls040.orno	Sales Order	3	6			
tcedi224.code	Code in Message	4	6			Indicates address type to follow: DEL if a delivery address; INV if postal (or invoice) address (defined in EDI address type codes).
tccom012.ccty	Country	5	3	Country Codes	SCP	
tdsls042.ccty					SSP	
tccom010.ccty					SDP	
tccom013.ccty					SCD	
tdsls042.ccty					SSD	
tccom010.ccty					SDD	
tccom012.nama					Name	
tdsls042.nama	SSP					
tccom010.nama	SDP					
tccom013.nama	SCD					
tdsls042.nama	SSD					
tccom010.nama	SDD					
tccom012.namb	Name 2	7	30			SCP
tdsls042.namb					SSP	
tccom010.namb					SDP	
tccom013.namb					SCD	
tdsls042.namb					SSD	
tccom010.namb					SDD	

Conversion setup: 865 (Out)		Level: 3 Order header addresses - optional				
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tccom012.namc	Address	8	30		SCP	
tdsls042.namc					SSP	
tccom010.namc					SDP	
tccom013.namc					SCD	
tdsls042.namc					SSD	
tccom010.namc					SDD	
tccom012.namd					Address 2	
tdsls042.namd	SSP					
tccom010.namd	SDP					
tccom013.namd	SCD					
tdsls042.namd	SSD					
tccom010.namd	SDD					
tccom012.name	City	10	30			SCP
tdsls042.name					SSP	
tccom010.name					SDP	
tccom013.name					SCD	
tdsls042.name					SSD	
tccom010.name					SDD	
tccom012.namf	City 2	11	30		SCP	
tdsls042.namf					SSP	
tccom010.namf					SDP	
tccom013.namf					SCD	
tdsls042.namf					SSD	
tccom010.namf					SDD	
tccom012.pstc	Zip Code	12	10		SCP	
tdsls042.pstc					SSP	
tccom010.pstc					SDP	
tccom013.pstc					SCD	
tdsls042.pstc					SSD	
tccom010.pstc					SDD	

Appendix A Conversion setups

Conversion setup: 865 (Out)		Level: 3 Order header addresses - optional				
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tccom012.fovn	Tax Number	13	20		SCP	
tdsls042.fovn	Tax No.				SSP	
tccom010.fovn	Tax Number				SDP	
tccom013.fovn	Tax Number				SCD	
tdsls042.fovn	Tax No.				SSD	
tccom010.fovn	Tax Number				SDD	

Conversion setup: 865 (Out)		Level: 4 Order header text - optional				
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdsls040.orno	Sales Order	3	6			
tdsls040.txta	Header Text	4	80			One record is written for every two lines of header text. Up to 100 ASCII records (user definable) can be written.

Conversion setup: 865 (Out)			Level: 5 Order lines - mandatory			
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdsls040.orno	Sales Order	3	6			
tdsls041.pono	Position Number	4	4			
tdsls041.epos	Customer Purchase Order	5	16			In BAAN IVb (standard), tcedi708.refn.
tdsls041.cprj	Project	6	6	Project Codes		
tdsls041.item	qual1	7	6			Item Code ID used to convert item code (defaults to BP).
tdsls041.item	Item	8	27	Alt. Item Codes (EDI)		Converted item.
tdsls041.item	Item	9	27			Unconverted item.
tiitm001.dsca	Description	10	27			
tdsls041.cntr	Container	11	3			
tdsls041.oqua	Order Quantity	12	19			
tdsls041.bqua	Back Order	13	19			
tdsls041.cuqs	Sales Unit	14	3	Unit Codes		Unit of measure sold/delivered.
tdsls041.pric	Price	15	19			
tdsls041.cups	Sales Price Unit	16	3	Unit Codes		Unit of measure for sales price.
tdsls041.disc	Discount Percentage	17	5			
tdsls041.amta	Amount	18	19			
tdsls041.prdt	Planned Receipt Date	19	10			

**Appendix A Conversion setups**

<b>Conversion setup: 865 (Out)</b>				<b>Level: 5 Order lines - mandatory</b>		
<b>Field name</b>	<b>Description</b>	<b>Pos</b>	<b>Length</b>	<b>Conv.</b>	<b>Eval. expr.</b>	<b>Comments</b>
tdsls041.odat	Order Date	20	10			
tdsls041.cdis	Discount Code	21	3	Discount Codes		
tdsls041.dmth	Discount Method	22	25			
tdsls041.ldam	Discount Amount	23	19			
tdsls041.lsel	Lot Selection	24	12			
tdsls041.clot	Lot	25	16			
tdsls703.ackd	Acknowledgment Code	26	2	Ack. Codes		
tdsls703.ctcd	Change Type Code	27	3	Change Type Codes		
tdsls703.crcd	Change Reason Code	28	3	Change Reason Codes		
tdsls041.cvat	Tax Code	29	9	Tax Codes		
tdsls041.cvat	qual1	30	10			Tax code ID used to convert tax codes; defaults to CD.



Conversion setup: 865 (Out)				Level: 6 Order line text- optional		
Field name	Description	Pos	Length	Conv.	Eval. expr.	Comments
tcedi701.bano	Our Reference	1	14			BAAN unique message ID number.
tcedi020.neta	Our Identification	2	17			External reference (VAN ID) of the BAAN company's identification over this network (from Our Identification field in Maintain Networks).
tdsls040.orno	Sales Order	3	6			
tdsls041.pono	Position Number	4	4			
tdsls041.txta	Order line text	5	80			One record is written for every two lines of order line text. Up to 100 ASCII records (user definable) can be written.

## Evaluation expressions

Evaluation expressions determine which lines of a conversion setup definition are executed and which are not; that is, which fields in the ASCII file are filled and which are not.

<b>Evaluation Expressions</b>		
<b>Expression</b>	<b>Description</b>	
CDH	Confirmed delivery date - header	tdpur040.ddtc <> 0
CPV	Product variant present	strip(tipcs021.cpv) <> ""
PCD	PUR delivery address code	strip(tdpur040.cwar) <> ""
	Purchasing: if a delivery code is specified at the header.	
PCI	Purchase customized item	strip(tipcs021.dfit) <> ""
PCL	PUR line warehouse address	strip(tdpur041.cwar) <> "" and (tdpur042.orno = 0)
	Purchasing: a warehouse code exists on the line and no specific delivery address has been assigned to the line.	
PDD	PUR default delivery address	(strip(tdpur040.cwar) = "") and (tdpur042.orno = 0)
	Purchasing: if no delivery address code specified for header and no specific delivery address defined for header.	
PSD	PUR specific delivery address	(tdpur042.orno <> 0) and (tdpur042.ckor = 0)
	Purchasing: if a specific delivery address has been added (table tdpur042).	
SCD	SLS sales delivery address code	strip(tdsls040.cdel) <> ""
	Sales: a delivery address code is defined for the sales order header.	
SCP	SLS postal address code	strip(tdsls040.ccor) <> ""
	Sales: a postal address code is defined for the sales order header.	
SDD	SLS default delivery address	(strip(tdsls040.cdel) = "") and (tdsls042.orno = 0)
	Sales if no delivery address code specified for sales order header and no specific delivery address is defined for the header.	
SDP	SLS default postal address	(strip(tdsls040.ccor) = "") and (tdsls042.orno = 0)
	Sales: if no postal address code specified for header and no specific postal address defined for sales order header.	
SSD	SLS specific delivery address	(tdsls042.orno <> 0) and (tdsls042.ckor = 0)
	Sales: a specific delivery address exists for the sales order.	
SSP	SLS specific postal address	(tdsls042.orno <> 0) and (tdsls042.ckor = 1)
	Sales: if a specific postal address has been assigned to the sales order header.	



# Appendix B Glossary

## **ANSI**

American National Standards Institute. Central body responsible for the identification of a single consistent set of voluntary standards called American National Standards. ANSI is also the US representative to nontreaty standards organizations.

## **Code in application**

A code used within the Baan application that needs to be translated before sending the message. An example of a code in application is the order type or the trading partner (customer or supplier) code.

## **Code in message**

The code in message refers to a standard code that is used within a specific EDI message and must be translated to or from to a value within your system. A code in message might be the standard code for unit of measure. This unit of measure may or may not be the same as your internal unit of measure and must be translated in order to transmit the correct unit.

## **Conversion setups**

Conversion setups define the file layout of the ASCII files received into and generated from BAAN EDI for your EDI messages.

## **Conversion table**

A Baan application table that holds the different code conversion values identifying the relationship between an external code (code in message) and the code in the BAAN application (code in application).

## **EDI**

See Electronic Data Interchange.

## **EDIFACT**

Electronic Data Interchange for Administration, Commerce and Transport. International Standard defined by ISO.

## **Electronic Data Interchange (EDI)**

The computer to computer transmission of a standard business document in a standard format. Internal EDI refers the transmission of data between companies on the same internal company network (also referred to as multisite or multicompany). External EDI refers to the transmission of data between your company and external trading partners.

**Payment order/Remittance advice**

Information furnished to the supplier by the customer, detailing the transactions being settled by a payment. Refer to ANSI X12 820 for additional information and the standard specification for electronic communication of such data. The corresponding European transactions are: REMADV (ODETTE and UN/EDIFACT).

**Purchase order**

A purchase agreement for goods/services between trading partners. See ANSI X12 850 for additional information. The corresponding European transactions are: ORDERR for ODETTE and ORDERS for UN/EDIFACT.

**Ship notice (ASN or SN)**

An electronic notification to the customer that lists the contents of a shipment of goods as well as additional information relating to the shipment prior to receipt. See ANSI X12 856 for additional information. The corresponding European transactions are: AVIEXP for ODETTE and DESADV for UN/EDIFACT. Also referred to as dispatch notes or packing slips.

**Trading partner**

The sending and/or receiving party involved in the exchange of electronic business documents.

**Transaction set**

A complete business document such as a Purchase Order, Invoice, or Sales Order. Synonym for document or message.

**Translation**

Commonly used to refer to the conversion of a company's internal data formats to and from any of the standard data formats, for example: X12, EDIFACT, ODETTE.

**VAN**

Value Added Network. A company that provides communications services for EDI such as line speed conversion and protocol matching.

**VDA**

Another standard for automotive electronic interchange of business transactions within Germany. This particular standard uses a fixed length field/record format.

**X12**

ANSI standard for interindustry electronic interchange of business transactions within the US.

The accredited subcommittee of American National Standards Institute whose mandate is to develop standard data formats for business transactions with cross-industry application.