TecCom B@se Orderer System

MMS Interface for Online Dialogue

Version 2.1

Interface Description **January 2002**

The greatest care was taken in compiling the texts and figures. Nevertheless it is impossible to completely avoid all mistakes in this user manual.

The publishers and authors are grateful for any information on errors.

The companies, other names, and data used in the examples are completely fictitious.

Contents

1 Data Interchange with Merchandise Management Systems

1.1 Overview

TecCom provides the orderer with two interfaces for connecting a merchandise management system (MMS) to the TecCom system:

An **Online Dialog Interface** in the TecCom B@se Orderer System (*TEC-Client*), which is implemented as a file interface

An **EDIFACT Batch Interface**, which requires use of a TEC Orderer Connect Server as well as an EDI Manager (EDI Gateway, EDI Converter, ...) with a certified TEC-EDI Interface.

☞ The current document describes the **Online Dialogue Interface**.

From the perspective of the *TEC-Client,* it provides an

- Import Interface: Import of order proposals from the MMS, as well as an
- Export Interface: an OrderLog Database, from which logs of all order processes including feedback from the suppliers can be transferred to the merchandise management system of the orderer.

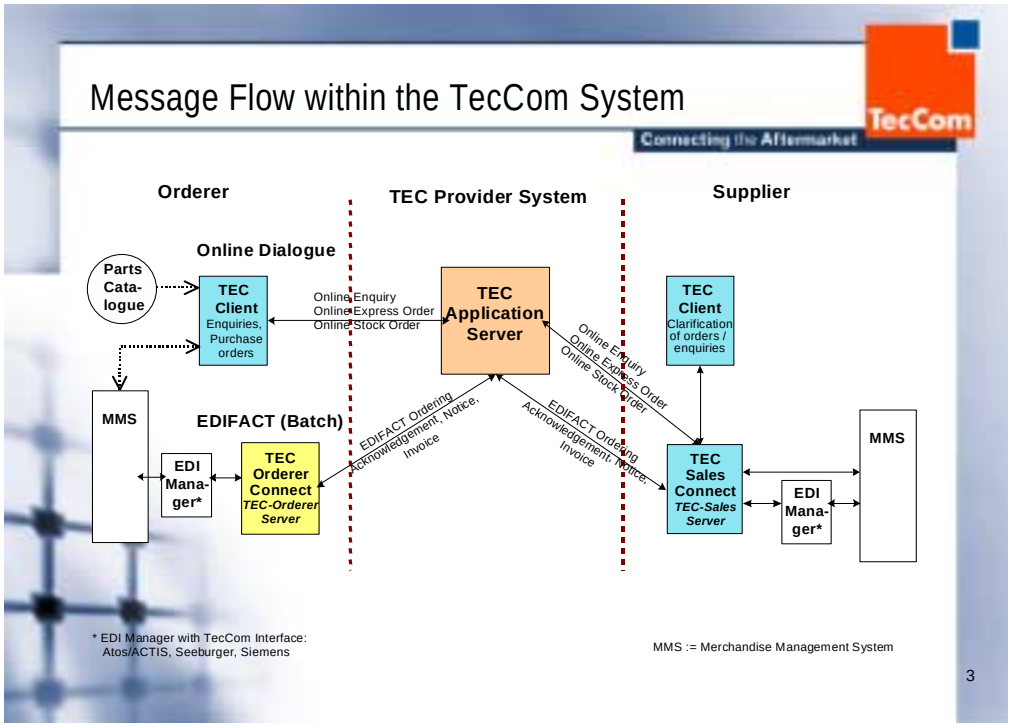

Figure 1: Message flow within the TecCom system

1.2 Import interface

If you are using a merchandise management system, you can export order transactions generated there and import them into the *TEC-Client*. The order transactions are transferred in the dialogue *Product Selection* or in the dialogue *Order Proposals* of the *TEC-Client*.

In the subsequent dialogue *Requests and Orders* any *order proposal* – as long as it is complete – can be sent unchanged as an online dialogue *Order* to the respective supplier. The reply from the supplier can be displayed immediately or – possibly at a later point in time – you can *inquire* about the status of the order using the dialogue *Outgoing Journal*.

If desired, an *order proposal* or parts of one can also be used as the basis for the online dialogue *Request*.

Connection of your merchandise management system to the *TEC-Client* can be implemented simply and quickly using the import interface.

This work requires the following steps:

- Analysis of the interface requirement
- Generation of an order file in the merchandise management system (MMS)
- Export of the order file / establishment of network communication with the *TEC-Client*
- Creation of a format description file, a so-called IFD file (IFD: Import Format Description)
- Interface test with a *TEC-Client (*can be done in off-line demo mode)
- Release for production operation

☞ Details can be found in Section 2.1

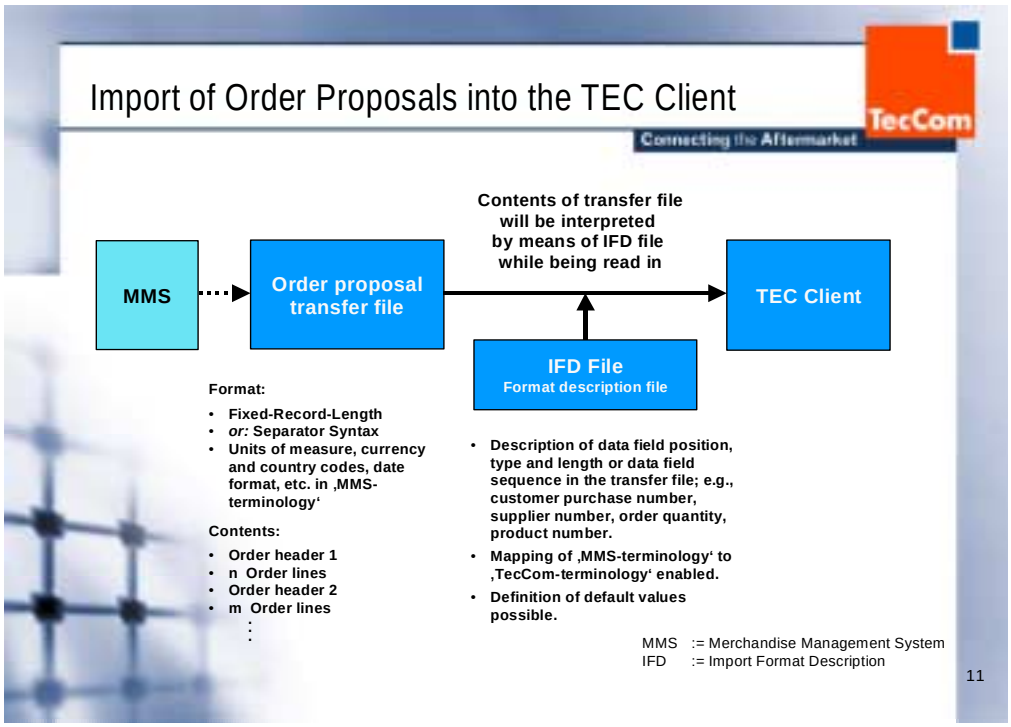

Figure 2: Import of order proposals

1.3 Export interface

Information on orders that you have placed via the *TEC-Client* can be provided for export to your merchandise management system.

For this purpose you can activate the option *Log Orders* in the *TEC-Client*. Then the executed orders – along with information from the reply of the supplier, such as supplier's order number, available quantities, prices, etc. – are written in an **OrderLog** database.

Depending on which variant of the *TEC-Client* you are using, the OrderLog can be in the *TEC-Connect* database or in a local or network-based MS Access database `Orderlog.mdb`.

1. Utilization of this database and further processing of the information it contains are your responsibility and must be implemented in a separate project.

   The options range from simple printed reports to a fully automated import of order information into your merchandise management system using online database communication (ODBC).

2. Detailed information on the logging of orders and on the data model of *OrderLog* can be found in *Section 3*

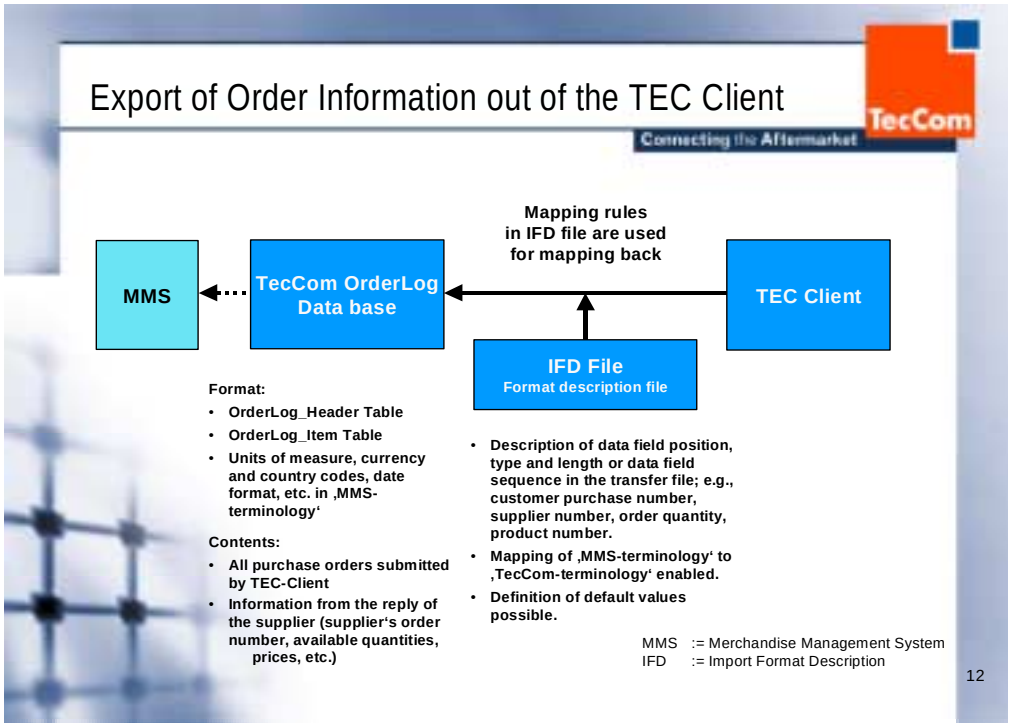

Figure 3: Export of order information

2 Importing Order Proposals

2.1 Procedure for using the import interface

Implementation, test, and productive use of the import interface requires the following steps:

Step	Comments
1. Analysis of the interface requirement	• Analysis (business and technical) of which fields can be supplied practically and should be supplied from your MMS (*See: 2.2)* • Determining the mapping and default rules for creating the format description file*. (See: 2.3)*
2. Generating an order file in the MMS	Generating an order file (in TecCom terminology: order proposal transfer file) in your MMS in accordance with prior analysis. ☞ Possibly analysis determined that you can use an already existing order file.
3. Exporting the order file / establishing network communication with the *TEC-Client*	Exporting the order proposal transfer file to memory in a local network which the *TEC-Client* can read and, if appropriate, delete. ☞ Determining, procuring required network software, such as Network File Service (NFS), AS/400 Client Access, etc.
4. Creating a format description file (IFD file)	Since the format of the order proposal transfer file is not standardized, it must be described in a format description file. To do so – in accordance with prior analysis – you create a text file with the file name suffix .IFD (= import format description). Details on the structure of the format description file can be found in Section *2.3*
5. *TEC-Client* settings	• The interface test with a *TEC-Client* can also be done in off-line demo mode. • From the perspective of the *TEC-Client*, transfer of order proposals requires the name (file name: any name) and the location of the order proposal transfer file. You can set this file in the dialogue *Administration* under the tab *MMS-Access*. ☞ If no information is entered here, a file selection dialogue will query the name and location of the order proposal transfer file before transfer of order proposals to the *TEC-Client* • ⚠ **Attention!** The currently used format description file **must** have the name **`Order-Transfer.IFD`** and **must** be located in the subdirectory **`OrderTransfer`** of your *TEC-Client* installation. The name of the file **`OrderTransfer.IFD`** must not be changed. • The order proposals are transferred in the dialogue *Requests and Orders* or in the dialogue *Order Proposals* of the *TEC-Client*.
6. Test execution	
7. Switching to productive operation	

2.2 The order proposal transfer file

2.2.1 File structure

Fixed-record-length format or **separator syntax**

The *TEC-Client* supports *file exchange with merchandise management systems* that export order proposals in files with fixed-record-length format or with separator syntax. The structure of the order proposal transfer file is flexible as regards the position and length of fields because it is defined in a format description file. The only thing the program expects is for the data to be stored in a fixed-record-length format, or using a separator syntax.

- With fixed-record-length formats, fields in a record can be described by their position (offset) and length.
- As far as separator syntax is concerned, it is sufficient to specify the separator and the sequence of fields (also as an offset). It is not necessary to specify lengths in this case.

  ☞ Tab symbols (TAB) may *not* be used as separators!

  ☞ The separator must not be used elsewhere in the file.

  ☞ Files and records must conform to DOS standards.

  ☞ End of record must be indicated by CRLF (Carriage return, line feed)

Order header and product records

The MMS interface enables two types of records of an order proposal transfer file being processed:

- Order header record: Record type for describing order headers.
- Product record: Record type for describing products to be ordered (order lines).

☞ **-** If an order proposal transfer file contains other information, this information is ignored during the import process.

- The order proposal transfer file can contain multiple order proposals with any number of order lines.
- Normally, an order will begin with an order header.
- Order lines belonging to one order have to follow the associated order header record in the transfer file.
- The end of an order is detected by a new order header or the end of the file.
- Order proposal transfer files without order header: To ensure that products can also be taken from an MMS which does not export orders but only products, the beginning of the file is also accepted as the beginning of an order (with an empty order header).

Character set

Either the ANSI or OEM character set can be used as the character set for the order proposal transfer file. The character set selected is indicated in the format description file.

Mandatory and optional fields

In creating an order proposal transfer file the usual distinction between mandatory and optional fields hardly exists. Fields that the merchandise management system does not (can not) supply may be left out of the transfer file. At a minimum the order proposal transfer file can be read in successfully even if it contains only article numbers. Of course that would still not be a usable TecCom *Order*.

If an order header or article record in the order proposal transfer file is incomplete in the context of a TecCom *order*, there are two options for modifying existing information or adding information:

1. By defining mapping values or standard values (defaults) in the format description file **`OrderTransfer.IFD`** *(See Section **2.3**)*
2. After importing the order proposals into the *TEC-Client*, missing or incorrect information can still be added or corrected via dialogue before the order is sent to the supplier.

However, the goal in creating an order proposal transfer file should always be to set up the file and supply it with data in such a way that the order proposal can be forwarded to the supplier without manual additions or corrections.

Therefore in the following table the length and status information should always be interpreted with respect to the sending of an order from the *TEC-Client*.

☞ The example of an order proposal transfer file

- with fixed record length can be found in *Section **4.1***
- with separator syntax can be found in *Section **4.3***

2.2.2 Order header records

Order header records contain the following fields, which are described in the associated format description file by their offset and length:

- In the following table, status indicates whether it is a mandatory or optional field (M / O) for sending an order from the *TEC-Client*.
  (M) indicates data Fields which are mandatory for submitting an purchase order via TecCom but need not be part of the order proposal file as they can either be defined as defaults in the IFD file or manually entered at the TEC Client after import but before sending.
- The length also relates to the requirements for sending an order from the *TEC-Client*, i.e. it is certainly possible to use other values in the order proposal transfer file when the mapping and/or default values are defined in the respective format description file (IFD file).

Field	Information	Type	Length	Status	Comment
SupplierNumber	Supplier number	Char	13	M	Number identifying the supplier in the MMS. The supplier's TecCom ID and the customer number of the orderer are ascertained in the *TEC Client* partner list with the aid of this supplier number.
SupplierName	Supplier name	Char	35	O	Supplier name: Info field for the Order Proposals dialogue
CustomerName	Employee name	Char	35	O	Employee name in the MMS: Info field for the Order Proposals dialogue
CustomerPurchaseNumber	Order ID	Char	35	O	Order ID in the MMS
Currency	Currency	Char	(3)	O (**M**)	Required currency for price information and invoices. Mapping can be done via the section *Currencies*. Standard values can be stored in the section *Defaults* in the entry *Currency*. If no currency is indicated, the standard of the *TEC-Client* is assumed.
DispatchMode	Dispatch mode	Char	(1)	O (**M**)	TECFORM standard: 1 = Normal dispatch 2 = Express dispatch 3 = Overnight dispatch 4 = Pick-up 5 = Cash on delivery Mapping is made possible via the section *Dis-*

					patchModes. Standard values can be stored in the section *Defaults* in the entry *DispatchMode*. If the dispatch mode is not indicated for express orders, it must be entered by the user.
Comment	Comment field	Char	240	O	Comment field (up to 240 characters) This field can be used to enter a comment about the order. It is written to the *OrderLog* when the order is executed, and is displayed in the Order Proposals dialogue.
Tag1 Tag2	Supplementary fields	Char	35 35	O	Supplementary fields (up to 35 characters) These fields can be used to enter supplementary information about the order. This information is written to the *OrderLog* when the order is executed. It can serve, for example, to identify and associate the order in the MMS.
OrderType	Order type	Char	1	O	This field is used to indicate an order type. 1: Express order 2: Stock order Standard values can be stored in the section *Defaults* in the entry *OrderType*.
DeliveryDate	Delivery date	Char		O	Delivery date for the entire order. The date format is defined via the entry *DateFormat* in the section *Measurements*.
CompleteDelivery	Complete delivery	Char	1	O	Indicates whether the complete order must be delivered all together. 1: Complete delivery Any other value: Partial delivery permitted. Standard valued can be stored in the section *Defaults* in the entry *CompleteDelivery*.
ShipToNumber	Consignee	Char	13	**(M)** / O	Number of the consignee (Mandatory field only when used at all.)
ShipToName1,		Char	35	**(M)** / O	(Mandatory field only when used at all.)
ShipToName2,		Char	35	O	Address of the consignee.
ShipToAddress1,		Char	35	O	This information can be used when the consignee is different from the orderer.
ShipToAddress2,		Char	35	O	
ShipToPostCode,		Char	9	O	
ShipToCity,		Char	35	O	
ShipToCntrCode		Char	2	O	

2.2.3 Product records

Product records (order lines) contain the following fields, which are described in the associated format description file by their offset and length:

- In the following table, status indicates whether it is a mandatory or optional field (M / O) for sending an order from the *TEC-Client.*
- The length also relates to the requirements for sending an order from the *TEC-Client*, i.e. it is certainly possible to use other values in the order proposal transfer file if the mapping and/or default values are defined in the respective format description file (IDF file).

Field	Meaning	Type	Length	Status	Comment
Maker	Maker code	Char	(6)	**(M)**	TECFORM standard[1] Mapping is enabled in the section *Mcodes.* Standard values can be stored in the section *Defaults* in the entry *Maker*. The user has to input any missing maker codes.
Number	Product number	Char	18	M	If the product number is not a manufacturer's number, * (asterisk) must be entered as maker code.
EANCode	EAN code	Char	14	O	Info field
Name	Product description	Char	40	O	Info field
Quantity	Quantity	Long	4 Byte	**(M)**	Max. 5 digits. The user has to input any missing quantities.
QtyUnit	Unit of measure	Char	(3)	O	ISO (UN/ECE 20 code) Mapping is made possible via the section *QtyUnits*. Standard values can be stored in the section *Defaults* in the entry *QuantityUnit*.
Price	Price (per packaging unit)	Float		O	Info field; max. 20 digits incl. decimal point
WrapUnit	Packaging unit	Long	4 Byte	O	Info field; max 9 digits
PartialDelivery	Partial delivery	Char	1	O	Indicates whether the item may also be delivered partially. 0: Partial delivery not permitted Any other value: Partial delivery permitted Standard values can be stored in the section *Defaults* in the entry *PartialDelivery*. This entry takes effect only if complete delivery is not required on the order level via the entry *CompleteDelivery.*
DeliveryDate	Delivery date	Char		O	Indicates a delivery date at the item level. The date format is defined via the entry *DateFormat* in the section *Measurements*. This entry takes effect only if complete delivery is not required on the order level via the entry *CompleteDelivery.*

[1] The valid TecCom manufacturer codes can be found in the `MCodes.ini` in the main directory of your *TEC-Client* installation.

2.3 The format description file OrderTransfer.IFD

2.3.1 Overview

The structure of the order proposal transfer file *(see Section 2.2)* is described by a format description file named `OrderTransfer.IFD`

Besides the description of order header and product records, the format description file also contains details of the character set, decimal separator and thousands separator that are used, as well as the currency for prices, the price unit (e.g. when stated in pence), the date format, mapping maker codes, units of measure, country codes, dispatch modes, and currency codes. In addition standard values can be defined for manufacturer code, quantity unit, currency, dispatch mode, order type, partial delivery on the item level, and partial delivery on the overall order level.

The format description file has the following sections:

[Importfile]	Section to define cross-file properties
[Measurements]	Section to define measures used and related items
[Recordtypes]	Section to define record types used
[Orders]	Section to describe records for order headers
[OrderItems]	Section to describe records for products
[MCodes]	Section to define the method for mapping MMS maker codes to TecCom maker codes
[MCodesMapEntries]	Section with entries to map MMS maker codes to TecCom maker codes
[QtyUnits]	Section to define a method to map MMS units of measure to ISO units of measure
[QtyUnitsMapEntries]	Section with entries to map MMS units of measure to ISO units of measure
[Currencies]	Section to define a method to map MMS currency codes to ISO currency codes
[CurrenciesMapEntries]	Section with entries to map MMS currency codes to ISO currency codes
[DispatchModes]	Section to define a method to map MMS dispatch modes to TecCom dispatch modes
[DispatchModesMapEntries]	Section with entries to map MMS dispatch modes to TecCom dispatch modes
[CountryCodes]	Section to define a method to map MMS country codes to ISO country codes
[CountryCodesMapEntries]	Section with entries to map MMS country codes to ISO country codes
[Defaults]	Section with entries to define default values

☞ For a detailed description of sections and entries, see *Section 2.3.3*

☞ A sample format description file for order proposal transfer files with

- Fixed-record-length format can be found in *Section 4.2*
- Separator syntax can be found in *Section 4.4*

2.3.2 Notes on the use of the format description file (IFD)

1 For use by the *TEC-Client* the format description file must have the name **`OrderTransfer.IFD`** and be located in the subdirectory **`OrderTransfer`** of your *TEC-Client* installation.

2 If certain fields are missing in the export file, then the associated offset and length specifications are inapplicable.

3 Counting of the position of a field in a record always begins with 1.

4 Standard values as per the section *Defaults* are assigned the respective entry prior to any mapping. Therefore you must add the standard values to your mapping table if you will be mapping.

5 When MMS maker codes, units of measure, currencies, country codes and dispatch modes have been mapped, the program checks whether the results are correct. A comparison is made with the entries in `MCodes.ini` (for maker codes), with the entries in `ISOCountry.ini` (for country codes), with the entries in `ISOCurrency.ini` (for currency codes), the internal table of ISO units of measure, and with the dispatch modes defined in TecCom (1 – 5). If the program detects any incorrect mapping results, it proceeds in the same way as if the corresponding Mapping entry were missing in the respective [*MapEntries] section.

6 The supplier number is used to ascertain the associated partner from the partner list in *TEC Client*. If this is impossible, the user has to input the supplier manually in the *Requests and Orders* dialogue.

7 The `OrderTransfer.ifd` file is located in the `OrderTransfer` subdirectory of your *TEC Client* installation. This file gives an example of the structure of the format description file if the order proposal transfer file has a fixed-record-length format. *(See Section 4.2.1)*

8 Mapping back in *OrderLog (See Section 3.1)*

9 The mapping rules in `OrderTransfer.ifd` are also used when logging orders in *OrderLog* in order to map maker codes, units of measure, currency codes, country codes and dispatch modes back to the system of the MMS. Order date and delivery date are stored in *DateFormat* (see section *Measurements*) in the *OrderLog*.

2.3.3 Sections and entries of the format description file in detail

[Importfile]	Section to define cross-file properties
Format	Format of imported records. Possible values: FixedLength, SeparatedFields
FieldSeparator	Separator for SeparatedFields format.
CharacterSet	Character set for imported records. Possible values: ANSI, OEM Default: ANSI
RecordType_Offset RecordType_Length	Position and length of the field describing the record type. These entries can be omitted if the records do not contain any record type identifier because, for example, they all relate to products.

[Measurements]	Section to define measures used and related items
DecimalSeparator	Decimal separator (e.g. . – decimal point)
ThousandsSeparator	Thousands separator (e.g. , – thousands comma)
Currency	Currency code (e.g. GBP) Mapping is enabled. The currency codes in TecCom are specified in accordance with ISO 4217.
CurrencyUnit	Conversion unit (e.g. 100 if prices are given in pence). This unit is used to convert prices to the currency format (by division).
DateFormat	Date format for all date fields used (e.g. delivery date). The format includes the parts DD for day, MM for month, and YYYY for year, plus any separators. Day and month must be entered as two digits. The year should be entered as four digits but can be entered as two. In this case '20' is automatically entered as the first two digits of the year.

[Recordtypes]	Section to define record types used
Orders	Identifier of records relating to order headers
OrderItems	Identifier of records relating to products. The value ANY has to be entered if all records describe products.

[Orders]	Section to describe records for order headers
SupplierNumber_Offset SupplierNumber_Length	Position and length of field containing the supplier number that identifies the supplier in the MMS
SupplierName_Offset SupplierName_Length	Position and length of field containing the supplier name
CustomerName_Offset CustomerName_Length	Position and length of field containing the name of the employee in the MMS
CustomerPurchaseNumber_Offset CustomerPurchaseNumber_Length	Position and length of field containing the order ID (or the ID of the order proposal in the MMS)
Currency_Offset Currency_Length	Position and length of field containing the required currency for price information and invoices
DispatchMode_Offset DispatchMode_Length	Position and length of field containing the required dispatch mode
Comment_Offset Comment_Length	Position and length of the comment field
Tag1_Offset Tag1_Length	Position and length of the first supplementary field
Tag2_Offset Tag2_Length	Position and length of the second supplementary field
OrderType_Offset OrderType_Length	Position and length of the order type

DeliveryDate_Offset DeliveryDate_Length	Position and length of the delivery date of the complete order
CompleteDelivery_Offset CompleteDelivery_Length	Position and length of the field that indicates whether only complete delivery is allowed
ShipToNumber_Offset ShipToNumber_Length	Position and length of the number of the consignee
ShipToName1_Offset ShipToName1_Length	Position and length of the of the first part of the name of the consignee
ShipToName2_Offset ShipToName2_Length	Position and length of the second part of the name of the consignee
ShipToAddress1_Offset ShipToAddress1_Length	Position and length of the first part of the address of the consignee
ShipToAddress2_Offset ShipToAddress2_Length	Position and length of the second part of the address of the consignee
ShipToPostCode_Offset ShipToPostCode_Length	Position and length of the postal code of the consignee
ShipToCity_Offset ShipToCity_Length	Position and length of the city of the consignee
ShipToCntrCode_Offset ShipToCntrCode_Length	Position and length of the country of the consignee

[OrderItems]	**Section to describe records for products**
Number_Offset Number_Length	Position and length of field containing the product number
Maker_Offset Maker_Length	Position and length of field containing the maker
EANCode_Offset EANCode_Length	Position and length of field containing the EAN code
Name_Offset Name_Length	Position and length of field containing the product description
WrapUnit_Offset WrapUnit_Length	Position and length of field containing the packaging unit
Quantity_Offset Quantity_Length	Position and length of field containing the quantity
QtyUnit_Offset QtyUnit_Length	Position and length of field containing the unit of measure
Price_Offset Price_Length	Position and length of field containing the price
PartialDelivery_Offset PartialDelivery_Length	Position and length of field that indicates whether partial delivery is permitted
DeliveryDate_Offset DeliveryDate_Length	Position and length of field of the delivery date on the item level

[MCodes]	**Section to define the method for mapping MMS maker codes to TecCom maker codes**
Mapping	Specification of the mapping method for MMS maker codes Possible settings: • **NoMap**: All MMS maker codes are imported without mapping because they are TecCom maker codes. • **Map**: All MMS maker codes are mapped with the aid of the Mapping entries in the MCodes section. If an MMS maker code is not found in the Mapping entries, the data is not imported. In this case it is up to the user to input it manually in the *Requests and Orders* dialogue. If the Mapping entry is missing, the program acts as if NoMap had been specified.

[MCodesMapEntries]	**Section with any number of entries to map MMS maker codes to TecCom maker codes**
Mapping entries	Any number of entries in the following form:

	MMS maker code=TecCom maker code These entries are used when Map has been defined as the mapping method.
[QtyUnits]	**Section to define a method to map MMS units of measure to ISO units of measure**
Mapping	Specification of the mapping method for MMS units of measure Possible settings: • **NoMap**: All MMS units of measure are imported without mapping because they are ISO units of measure. • **Map**: All MMS units of measure are mapped with the aid of the Mapping entries in the QtyUnits section. If an MMS unit of measure is not found in the Mapping entries, the data is not imported. In this case the user can input it manually in the *Requests and Orders* dialogue. If the Mapping entry is missing, the program acts as if NoMap had been specified.
[QtyUnitsMapEntries]	**Section with entries to map MMS units of measure to ISO units of measure**
Mapping entries	Any number of entries in the following form: **MMS unit of measure=ISO unit of measure** These entries are used when Map has been defined as the mapping method.
[Currencies]	**Section to define a method to map MMS currency codes to ISO currency codes**
Mapping	Specification of the mapping method for MMS currency codes Possible settings: • **NoMap**: All MMS currency codes are imported without mapping because they are ISO currency codes. • **Map**: All MMS currency codes are mapped with the aid of the Mapping entries in the Currencies section. If an MMS currency code is not found in the Mapping entries, the data is not imported. In this case the user can input it manually in the *Requests and Orders* dialogue. If the Mapping entry is missing, the program acts as if NoMap had been specified.
[CurrenciesMapEntries]	**Section with entries to map MMS currency codes to ISO currency codes**
Mapping entries	Any number of entries in the following form: **MMS currency code=ISO currency code** These entries are used when Map has been defined as the mapping method.
[DispatchModes]	**Section to define a method to map MMS dispatch modes to TecCom dispatch modes**
Mapping	Specification of the mapping method for MMS dispatch modes Possible settings: • **NoMap**: All MMS dispatch modes are imported without mapping because they are **TecCom** dispatch modes. • **Map**: All MMS dispatch modes are mapped with the aid of the Mapping entries in the DispatchModes section. If an MMS dispatch mode is not found in the Mapping entries, the data is not imported. In this case the user can input it manually in the *Requests and Orders* dialogue. If the Mapping entry is missing, the program acts as if NoMap had been specified.

[DispatchModesMapEntries]	**Section with entries to map MMS dispatch modes to TecCom dispatch modes**
Mapping entries	Any number of entries in the following form: **MMS dispatch mode= TecCom dispatch mode** These entries are used when Map has been defined as the mapping method. The numbers 1 – 5 have been defined as TecCom dispatch modes: 1 = Normal dispatch, 2 = Express dispatch, 3 = Overnight dispatch, 4 = Pick-up, 5 = Cash on delivery

[CountryCodes]	**Section to define a method to map MMS country codes to ISO country codes**
Mapping	Specification of the mapping method for MMS country codes Possible settings: • **NoMap**: All MMS country codes are imported without mapping because they are ISO country codes. • **Map**: All MMS country codes are mapped with the aid of the Mapping entries in the **CountryCodes** section. If an MMS country code is not found in the Mapping entries, the data is not imported. In this case the user can input it manually in the *Requests and Orders* dialogue. If the Mapping entry is missing, the program acts as if NoMap had been specified.

[CountryCodesMapEntries]	**Section with entries to map MMS country codes to ISO codes**
Mapping entries	Any number of entries in the following form: **MMS country code=ISO code** These entries are used when Map has been defined as the mapping method.

[Defaults]	**Sections with entries for defining standard values**
Maker	Standard value for the manufacturer code (Maker). If the manufacturer code is mapped, an MMS manufacturer code should be entered here instead of a TecCom manufacturer code, because the mapping will not be done until after assignment of the standard value.
QuantityUnit	Standard value for quantity unit (QtyUnit). If the quantity unit is mapped, an MMS quantity unit should be entered here instead of a TecCom quantity unit, since the mapping will not be done until after assignment of the standard value.
Currency	Standard value for currency units (Currency). If the currency unit is mapped, an MMS currency unit should be entered here instead of a TecCom currency unit, since the mapping will not be done until after assignment of the standard value.
DispatchMode	Standard value for the dispatch mode (DispatchMode). If the dispatch mode is mapped, an MMS dispatch mode is to be entered here instead of a TecCom dispatch mode, since the mapping will not be done until after assignment of the standard value.
OrderType	Standard value for order type. 1: Express order 2: Stock order
PartialDelivery	Standard value for partial delivery on the item level 0: Partial delivery not permitted Any other value: Partial delivery permitted
CompleteDelivery	Standard value for partial delivery on the level of the overall order 1: Complete delivery Any other value: Partial delivery permitted

3 Exporting Orders to the Merchandise Management System

3.1 Logging of orders in the OrderLog data base

If you want to log the execution of orders in *TEC Client* to export the data to your merchandise management system, you have to activate the *Log Orders* option on the *MMS Access* tab of the *Administration* dialogue.

When logging has been activated, *TEC Client* writes all orders to the OrderLog – along with information from the reply of the supplier (supplier's order number, available quantities, prices, etc.).

1. The OrderLog is stored in the *TEC Connect* database. It consists of two linked tables named ORDERLOG_HEADER and ORDERLOG_ITEM. Notes on the data model of the *OrderLog* can be found in Sections 3.2 and 3.3
2. The tables contain free fields for use by the program that evaluates or exports the data.
3. The data in the OrderLog is not deleted by *TEC Client*. It is up to the exporting program to do this.
4. For inquiries and orders in the *TEC*-Client, if the logging option is set, it is only possible to select those suppliers for which a supplier code is entered in the dialogue *Partner*.

    1 This TecCom supplier code corresponds to the supplier number in your merchandise management system. When exporting orders from the *OrderLog* and subsequently importing them into your merchandise management system, it is used in your MMS to assign orders to the appropriate suppliers.

Mapping back

If mappings are defined in the `OrderTransfer.ifd` file (for maker codes, units of measure, currency codes, country codes and dispatch modes – *see Section 2.2*), the corresponding entries are mapped back to the previous system (i.e. written to the OrderLog using the system of the MMS). This ensures that the mapping rules in `OrderTransfer.ifd` are used in both directions. If mapping information is missing, the TecCom entry in question is transferred on a 1:1 basis.

Type and location of the OrderLog database

Type and location of the OrderLog database depend on the *TEC-Client* variant you are using. The location of the *OrderLog* is defined in the dialogue *Administration – MMS-Access*.

- For a single-user system the *OrderLog is located in the MS Access database* `Orderlog.mdb` in the subdirectory `Database` of your *TEC-Client* installation.
- For a multi-user system with a network database the MS Access database `Orderlog.mdb` is also used as *OrderLog*. It is installed together with the user database TecData.mdb in the same directory.

In both cases the *TEC-Client* accesses the MS Access database via ODBC. For this purpose an ODBC data source with the DSN-Name **TecOrderlogDSN** is set up when the client is installed. By changing the data source you are able to place the *OrderLog* in another location or even work with multiple *OrderLogs for different users or sales organizations.*

- When using a *Client with Access to a Connect Database*, the *OrderLog* is normally located in the Connect database.

Since access to the *OrderLog* even in this case is via a ODBC data source, in this scenario you can also modify the DSN entry e.g., the MS Access database `Orderlog.mdb` to use it as *OrderLog* (TEC-Client – Administration – *Tab:* MMS-Access).

3.2 Fields in the ORDERLOG_HEADER table

Name	Type	Size	Comments
ORDER_NR	Number (long)	4 Byte	Automatic counter (primary index)
TRANSMISSION_TYPE	Number (long)	4 Byte	Online or fax (0 = Online, 1 = Fax)
SUPPLIER_NUMBER	Text	32	Supplier number in the MMS
CUSTOMER_NUMBER	Text	13	Customer number (used by the supplier)
CUSTOMER_NAME	Text	35	Employee in the MMS
PURCHASE_DATE	Text	20	Order date (format as defined in the *DateFormat* entry in the *Measurements* section of the format description file `OrderTransfer.ifd`)
CUSTOMER_PURCHASE_NUMBER	Text	35	Purchaser's order ID
DISPATCH_MODE	Text	35	Dispatch mode (mapped)
SUPPLIER_PURCHASE_NUMBER	Text	10	Supplier's order ID
WWS_COMMENT	Text	240	Comment
SHIPTO_NUMBER	Text	13	Number of consignee
SHIPTO_NAME1	Text	35	Name 1 of consignee
SHIPTO_NAME2	Text	35	Name 2 of consignee
SHIPTO_ADDRESS1	Text	35	Address 1 of consignee
SHIPTO_ADDRESS2	Text	35	Address 2 of consignee
SHIPTO_POST_CODEe	Text	9	Postal code of consignee
SHIPTO_CITY	Text	35	City of consignee
SHIPTO_CNTR_CODE	Text	2	Country code of consignee
TAG1	Text	35	Supplementary field 1
TAG2	Text	35	Supplementary field 2
FREE_INTEGER1	Number (long)	4 Byte	Free integer field for use by the exporting program
FREE_INTEGER2	Number (long)	4 Byte	Free integer field for use by the exporting program
FREE_LONG1	Number (long)	4 Byte	Free long field for use by the exporting program
FREE_LONG2	Number (long)	4 Byte	Free long field for use by the exporting program
FREE_TEXT	Text	240	Free text field for use by the exporting program
DELIVERY_DATE	Text	20	Requested delivery date for the complete order (format as defined in the *DateFormat* entry in the *Measurements* section of the format description file `OrderTransfer.ifd`)
PART_DELIVERY	Number (long)	4 Byte	1 digit (0/1). Indicates whether a partial delivery of the overall order is allowed.
SALES_ORG_ID	Text	32	Name of the sales organization that initiated the order

3.3 Fields in the ORDERLOG_ITEM table

Name	Type	Size	Comments
ORDER_ITEM_NR	Number (long)	4 Byte	Automatic counter (primary index)
ORDER_NR	Number (long)	4 Byte	Pointer to associated order
MATERIAL	Text	18	Product number
MAKER	Text	35	Maker code (mapped)
NAME	Text	40	Product description
QUANTITY	Number (long)	4 Byte	Quantity ordered; max. 5 digits
QTY_UNIT	Text	35	Unit of measure (mapped)
POSITION	Number (long)	4 Byte	Line item number (consecutive numbering)
EAN_CODE	Text	14	EAN code
STATUS	Number (long)	4 Byte	Order status: 1=Unknown, 2 =Not Reached, 3=Error, 4=Open, 5=Not Available, 6=Available, 7=Received, 8=Partly Available
CONFIRMATION	Text	1	Y/N (can also be blank)
PRICE_CATEGORY	Number (long)	4 Byte	0 = Net price, 1 = List price, 2 = No price information
PRICE_PER	Number (long)	4 Byte	Price relating to quantity; max. 9 digits
PRICE_PER_QTY_UNIT	Text	35	For list price only: Unit of measure to which the price relates (mapped)
DISCOUNT_GROUP	Text	4	Discount category
PRICE	Number (double)	8 Byte	Price * 1000 ; max. 20 digits incl. decimal point
PRICE_CURRENCY	Text	35	Currency for price (mapped)
Ack_QUANTITY	Number (long)	4 Byte	Deliverable quantity
Ack_QTY_UNIT	Text	35	Unit of measure for deliverable quantity (mapped)
PRICE2	Number (double)	8 Byte	Price * 1000 in 2nd currency (e.g. EUR); max. 20 digits incl. decimal point
PRICE_CURRENCY2	Text	35	Currency for 2nd price (mapped)
FREE_INTEGER	Number (long)	4 Byte	Free integer field for use by the exporting program
FREE_LONG	Number (long)	4 Byte	Free long field for use by the exporting program
DELIVERY_DATE	Text	20	Requested delivery date for complete order (format as defined in the *DateFormat* entry in the *Measurements* section of the format description file `OrderTransfer.ifd`)
PART_DELIVERY	Number (long)	4 Byte	Indicates whether the item may also be delivered partially.

4 Appendix - Examples

4.1 Order proposal transfer file with fixed-record-length format

```
; Supporting ruler in the order proposal transfer file OrderTransferDemo.dat (Semicolon=: comment line
indicator)
;        10        2         3         4         50        6         7         8         9       100
1             ;       120        3         4        150        6

;2345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789
0;23456789012345678901234567890123456789012345678901234567890

0000201  1520      Car Parts Inc.      Paul                CP-L001 GB      BP   Nov


00012000030201667               WEZEL Front panel
000010000119990809408230006622700008000000       1440101ST         089317                          0038B
1006

00012000044010253               NOR   Headlamp bowl, metal
000110000119990421              0000000000     142320101ST         0                               0007B
1006

00012000054010254               NOR   Headlamp bowl, plastic
000040000119990720              0000000000    1414150101ST         0                               0011B
1006

00012000060201657               WEZEL Front wing left
000060000119990722335164774353700001000001      12120101ST         0                               0010B
1006

00012000070201658               WEZEL Front wing right
000010000119990722335164259357100001000001      12120101ST         0                               0010B
1006
```

```
00012000084010993               NOR   Fin, upper
000030000119990401401972210343800000000000    1334220101ST         0T 055                          0087B
1006

00012000094010994               NOR   Fin, side
000010000119951117400510804897400001000001      12220101ST         0                               0005B
1006

00012000100201660               WEZEL Front bonnet
000071000119990806401387200546800000000000     122120101ST         0MF215                          0078B
1006

00012000130 986 034 490         BOSCH Alternator
000040010119990720316514103922100000000000          0101ST         0                               0011B
1006

00012000148EL 725 672-001       HELLA GENERATOR
000080010119990809408230006064500001000000          0101ST         0CA 254 IR                      0038B
1006

00012000120.001259              GKN   Starter
000120010119990802401906460168500000000000          0101ST         0                               0036B
1006


;        1         2         3         4         5         6         7         8         9         0
1         2         3         4         5         6

;2345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789
012345678901234567890123456789012345678901234567890123456789012345678901234567890

0000201  1520      Car Parts Inc.      Paul                CP-L002 GB      BP   Nov


0001200001099-251               BOSAL Catalytic Converter
000100000119990722335164099251200001000001          0101ST         0                               0010B
1006

0001200002251-693               BOSAL Bolts/Nuts
000250000119990722335164251693800001000001          0101ST         0                               0010B
1006
```

```
0001200003255-065               BOSAL Rubber mounting
000320000119990722335164255065900001000010101ST         0                                0010B
1006

0001200004291-661               BOSAL Central silencer
000040000119990722335164291661500001000010101ST         0                                0010B
1006

00012000058EL 725 785-001       HELLA GENERATOR
000500010119990809408230006178900001000000101ST         0CA 379 IR                       0038B
1006

00012000063FH 007 424-801       HELLA Electric Twin-tone horn set, 12V (INTERIEUR)
000080000119980420408230007053800024000000101ST         0                                0038B
1006

00012000070.020472              GKN   Driveshaft
000020000119940712401906400472100000000000101ST         0                                0036B
1006

00012000080.021269              GKN   Tripodestern
000020000119960505401906401268900000000000101ST         0                                0036B
1006

00012000090 580 254 959         BOSCH Electric fuel pump, gasoline
000150000119990720             0000000000101ST         0                                0011B
1006

00012000100 986 013 941         BOSCH Starting motor
000060010119990720316514103517900000000000101ST         0                                0011B
1006
00012000118EA 726 120-001       HELLA STARTER
000020010119990809408230005668600001000000101ST         0CS 371                          0038B
1006
```

4.2 Format description file for fixed record length

4.2.1 Example 1

Format description file `OrderTransferDemo.ifd` describing the order proposal transfer file `OrderTransferDemo.dat` *(see Section 4.1):*

```
[Importfile]
Format=FixedLength
CharacterSet=ANSI
RecordType_Offset=4
RecordType_Length=4

[Measurements]
DecimalSeparator=,
ThousandsSeparator=.
Currency=DM
CurrencyUnit=100

[RecordTypes]
Orders=0201
OrderItems=1200

[Orders]
SupplierNumber_Offset=10
SupplierNumber_Length=9

SupplierName_Offset=20
SupplierName_Length=20

CustomerName_Offset=40
CustomerName_Length=20

CustomerPurchaseNumber_Offset=61
CustomerPurchaseNumber_Length=15

Currency_Offset=77
Currency_Length=3

DispatchMode_Offset=82
DispatchMode_Length=3

Comment_Offset=85
Comment_Length=65

Tag1_Offset=
Tag1_Length=

Tag2_Offset=
Tag2_Length=

[OrderItems]
Number_Offset=11
Number_Length=18

Maker_Offset=33
Maker_Length=6
```

```
Name_Offset=39
Name_Length=40

EANCode_Offset=116
EANCode_Length=14

WrapUnit_Offset=153
WrapUnit_Length=1

Quantity_Offset=99
Quantity_Length=5

QtyUnit_Offset=154
QtyUnit_Length=2

Price_Offset=156
Price_Length=10

[MCodes]
Mapping=NoMap

[MCodesMapEntries]
BOSCH=Bosch
GKN=GKN
BOSAL=Bosal

[QtyUnits]
Mapping=Map

[QtyUnitsMapEntries]
ST=PCE
LT=LTR

[Currencies]
Mapping=Map

[CurrenciesMapEntries]
DM=DEM
BF=BEF
AS=ATS
EU=EUR
BP=GBP
FR=FRF

[DispatchModes]
Mapping=Map

[DispatchModesMapEntries]
Nov=1
Scv=2
Nav=3
Abh=4
Nac=5
```

4.2.2 Example 2

Format description file `OrderTransferDemo2.ifd` with address of consignee, mapping and definition of default values

```
[Importfile]
Format=FixedLength
CharacterSet=ANSI
RecordType_Offset=4
RecordType_Length=4

[Measurements]
DecimalSeparator=,
ThousandsSeparator=.
Currency=
CurrencyUnit=100
DateFormat=YYYYMMDD

[RecordTypes]
Orders=ORD
OrderItems=1200

[Orders]
SupplierNumber_Offset=8
SupplierNumber_Length=25

SupplierName_Offset=33
SupplierName_Length=30

CustomerPurchaseNumber_Offset=63
CustomerPurchaseNumber_Length=10

Currency_Offset=73
Currency_Length=5

DispatchMode_Offset=78
DispatchMode_Length=3

OrderType_Offset=81
OrderType_Length=1

DeliveryDate_Offset=82
DeliveryDate_Length=10

CompleteDelivery_Offset=92
CompleteDelivery_Length=1

ShipToName1_Offset=93
ShipToName1_Length=35

ShipToName2_Offset=128
ShipToName2_Length=35

ShipToAddress1_Offset=163
ShipToAddress1_Length=35

ShipToAddress2_Offset=198
ShipToAddress2_Length=35

ShipToPostCode_Offset=233
ShipToPostCode_Length=5

ShipToCity_Offset=238
```

```
ShipToCity_Length=35

ShipToCntrCode_Offset=273
ShipToCntrCode_Length=2

[OrderItems]
Number_Offset=11
Number_Length=22

Maker_Offset=33
Maker_Length=6

EANCode_Offset=117
EANCode_Length=13

Name_Offset=39
Name_Length=60

WrapUnit_Offset=99
WrapUnit_Length=5

Quantity_Offset=225
Quantity_Length=5

QtyUnit_Offset=154

Price_Offset=156
Price_Length=10

PartialDelivery_Offset=230
PartialDelivery_Length=1

DeliveryDate_Offset=231
DeliveryDate_Length=8

[MCodes]
Mapping=Map

[MCodesMapEntries]
Be=BERU
Bo=BOSCH

[QtyUnits]
Mapping=Map

[QtyUnitsMapEntries]
ST=PCE

[Currencies]
Mapping=Map

[CurrenciesMapEntries]
DM=DEM
BP=GBP

[DispatchModes]
Mapping=Map

[DispatchModesMapEntries]
Nov=1
Sve=2
Nvs=3
Abh=4
Nac=5

[CountryCodes]
Mapping=Map
```

```
[CountryCodesMapEntries]
D=DE
[Defaults]
Maker=Bo
QuantityUnit=ST
Currency=BP
DispatchMode=Sve
OrderType=1
PartialDelivery=1
CompleteDelivery=0
```

4.3 Order proposal transfer file with separator syntax

Order proposal transfer file `TecCom-Separated.dat` with semicolon as separator:

```
ORD;0020910;TecCom Plc.;0100;1050579;;; Fax 170699 AB 14090150

ORDI;361308J;*;;Brake blocks asbestos free 361308J;;1000;STK;1330
ORDI;361335J;*;;Brake blocks asbestos free 361335J;;1000;STK;2610
ORDI;361537J;*;;Brake blocks asbestos free  361537J;;1000;STK;1919
ORDI;361555J;*;;Brake blocks asbestos free  361555J;;1000;STK;1558
ORDI;361848J;*;;Brake blocks asbestos free  361848J;;1000;STK;1910
ORDI;362012J;*;;Brake blocks asbestos free  362012J;;1000;STK;3990
ORDI;362311J;*;;Brake blocks asbestos free  362311J;;1000;STK;2114
ORDI;362312J;*;;Brake blocks asbestos free  362312J;;1000;STK;1919
ORDI;571215D;*;;SBB asbestos free D=15,0   571215D 20011;;1000;STK;1777
ORDI;571297D;*;;SBB asbestos free          571297D 20950;;5000;STK;1292
ORDI;571357D;*;;SBB asbestos free 20168    571357D 19,6;;5000;STK;3002
ORDI;12.Zeile;*;;max. 30 order lines;;5000;STK;3002
ORDI;361308J;*;;Brake blocks asbestos free 361308J;;1000;STK;1330
ORDI;361335J;*;;Brake blocks asbestos free 361335J;;1000;STK;2610
ORDI;361537J;*;;Brake blocks asbestos free  361537J;;1000;STK;1919
ORDI;361555J;*;;Brake blocks asbestos free  361555J;;1000;STK;1558
ORDI;361848J;*;;Brake blocks asbestos free  361848J;;1000;STK;1910
ORDI;362012J;*;;Brake blocks asbestos free  362012J;;1000;STK;3990
ORDI;362311J;*;;Brake blocks asbestos free  362311J;;1000;STK;2114
ORDI;362312J;*;;Brake blocks asbestos free  362312J;;1000;STK;1919
ORDI;571215D;*;;SBB asbestos free D=15,0   571215D 20011;;1000;STK;1777
ORDI;571297D;*;;SBB asbestos free          571297D 20950;;5000;STK;1292
ORDI;571357D;*;;SBB asbestos free 20168    571357D 19,6;;5000;STK;3002
ORD;0020915;Auto-Auto Inc.;0100;1050580;;;per fax 170699 or 14090150
ORDI;361308J;*;;Brake blocks asbestos free 361308J;;1000;STK;1330
ORDI;361335J;*;;Brake blocks asbestos free 361335J;;1000;STK;2610
ORDI;361537J;*;;Brake blocks asbestos free  361537J;;1000;STK;1919
ORDI;361555J;*;;Brake blocks asbestos free  361555J;;1000;STK;1558
ORDI;361848J;*;;Brake blocks asbestos free  361848J;;1000;STK;1910
```

```
ORDI;362012J;*;;Brake blocks asbestos free  362012J;;1000;STK;3990
ORDI;362311J;*;;Brake blocks asbestos free  362311J;;1000;STK;2114
ORDI;362312J;*;;Brake blocks asbestos free  362312J;;1000;STK;1919
ORDI;571215D;*;;SBB asbestos free D=15,0   571215D 20011;;1000;STK;1777
ORDI;571297D;*;;SBB asbestos free          571297D 20950;;5000;STK;1292
ORD;0020920;ABC Brothers;0100;1050581;;;per fax 170699   AB 14090150
ORDI;571357D;*;;SBB asbestos free 20168    571357D 19,6;;5000;STK;3002
ORDI;361308J;*;;Brake blocks asbestos free 361308J;;1000;STK;1330
ORDI;361335J;*;;Brake blocks asbestos free 361335J;;1000;STK;2610
ORDI;361537J;*;;Brake blocks asbestos free  361537J;;1000;STK;1919
ORDI;361555J;*;;Brake blocks asbestos free  361555J;;1000;STK;1558
ORDI;361848J;*;;Brake blocks asbestos free  361848J;;1000;STK;1910
ORDI;362012J;*;;Brake blocks asbestos free  362012J;;1000;STK;3990
ORDI;362311J;*;;Brake blocks asbestos free  362311J;;1000;STK;2114
ORDI;362312J;*;;Brake blocks asbestos free  362312J;;1000;STK;1919
ORDI;571215D;*;;SBB asbestos free D=15,0   571215D 20011;;1000;STK;1777
ORDI;571297D;*;;SBB asbestos free          571297D 20950;;5000;STK;1292
ORDI;571357D;*;;SBB asbestos free 20168    571357D 19,6;;5000;STK;3002
```

4.4 Format description file for separator syntax

Format description file `OrderTransferSep.ifd` describing the order proposal transfer file `TecCom-Separated.dat`:

```
[Importfile]
Format=SeparatedFields
FieldSeparator=;
CharacterSet=ANSI
RecordType_Offset=1
RecordType_Length=

[Measurements]
DecimalSeparator=,
ThousandsSeparator=.
Currency=DM
CurrencyUnit=100

[RecordTypes]
Orders=ORD
OrderItems=ORDI

[Orders]
SupplierNumber_Offset=2
SupplierNumber_Length=

SupplierName_Offset=3
SupplierName_Length=

CustomerName_Offset=4
CustomerName_Length=

CustomerPurchaseNumber_Offset=5
CustomerPurchaseNumber_Length=

Currency_Offset=6
Currency_Length=

DispatchMode_Offset=7
DispatchMode_Length=

Comment_Offset=8
Comment_Length=

Tag1_Offset=9
Tag1_Length=

Tag2_Offset=10
Tag2_Length=

[OrderItems]
Number_Offset=2
Number_Length=

Maker_Offset=3
Maker_Length=

EANCode_Offset=4
EANCode_Length=

Name_Offset=5
```

```
Name_Length=

WrapUnit_Offset=6
WrapUnit_Length=

Quantity_Offset=7
Quantity_Length=

QtyUnit_Offset=8
QtyUnit_Length=

Price_Offset=9
Price_Length=

[MCodes]
Mapping=NoMap

[MCodesMapEntries]
Bo=Bosch
He=Hella
Sr=SRS

[QtyUnits]
Mapping=Map

[QtyUnitsMapEntries]
STK=PCE
LT=LTR

[Currencies]
Mapping=Map

[CurrenciesMapEntries]
DM=DEM
JD=JOD
CD=CAD
ZR=ZRZ

[DispatchModes]
Mapping=Map

[DispatchModesMapEntries]
Nov=1
Scv=2
Nav=3
Abh=4
Nac=5
```