

# Electronic Data Interchange / IDoc Interface (SD)



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## Icons

| Icon  | Meaning        |
|---|----------------|
|  | Caution        |
|  | Example        |
|  | Note           |
|  | Recommendation |
|  | Syntax         |
|  | Tip            |

## Contents

|  |           |
|--|-----------|
| <b>Electronic Data Interchange / IDoc Interface (SD)</b> ..... | <b>5</b>  |
| <b>Outbound Message Processing (SD)</b> .....                  | <b>7</b>  |
| <b>IDoc Types for Outbound Messages (SD)</b> .....             | <b>8</b>  |
| <b>IDoc Types for Outbound Messages (LE)</b> .....             | <b>10</b> |
| <b>Inbound Message Processing (SD)</b> .....                   | <b>11</b> |
| <b>IDoc Types for Inbound Messages (SD)</b> .....              | <b>12</b> |

## Electronic Data Interchange / IDoc Interface (SD)

### Purpose

The Electronic Data Interchange ([EDI \[Ext.\]](#)) component in Sales and Distribution consists of an Intermediate Document ([IDoc \[Ext.\]](#)) interface. You can use this interface to

- send messages (outbound processing) such as an order confirmation through Electronic Data Interchange (EDI)
- receive messages (inbound processing) such as a sales order through EDI

### Integration

Many large companies (such as automotive suppliers) require their vendors to use EDI.

For information on EDI in the components supplying industry, refer to [Intermediate Documents for Scheduling Agreements \[Ext.\]](#).

In Sales and Distribution, output determination is initiated during outbound processing.

For information on output determination in Sales and Distribution, see [Output Determination \(SD\) \[Ext.\]](#).

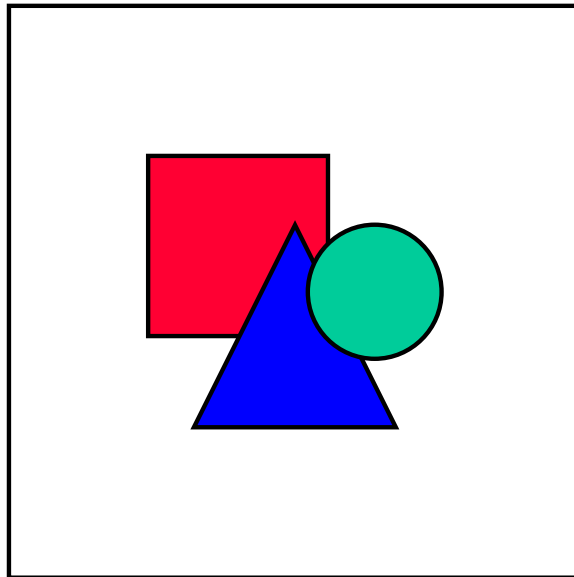
For information on output (or message) control in general, see [CA - Message Control \[Ext.\]](#) in *Cross-Application Components*.

### Features

During outbound processing in Sales and Distribution, the system determines output using the output determination component. The system converts the data into an IDoc and issues it using the IDoc interface.

During inbound processing, the sender converts the data into IDocs and passes it on to the IDoc interface. These IDocs are stored in the SAP System. In a second step, the system creates the document data.

Electronic Data Interchange / IDoc Interface (SD)



SAP does not provide EDI converters.

For more information on the IDoc interface in general, see [IDoc-Interface / Electronic Data Interchange \[Ext.\]](#) in the cross-application documentation *The IDoc Interface (CA-EDI)*.

## Outbound Message Processing (SD)

### Purpose

This component is used to send EDI messages. In outbound processing, document data is written to IDocs and sent to the receiving system.

### Features

The following outbound EDI messages are available in Sales and Distribution:

- quotations
- order confirmation
- order changes
- delivery notes
- shipping notifications
- invoices

Standards such as EDIFACT, ANSI, ODETTE and VDA are supported.

For more information on outbound processing in general, see [Outbound Processing \[Ext.\]](#) in the cross-application documentation *The IDoc Interface (CA-EDI)*.

## IDoc Types for Outbound Messages (SD)

**IDoc Types for Outbound Messages (SD)**

The following outbound EDI (Electronic Data Interchange) messages are available in the standard system.

| EDI standard term              | Output type | IDoc type                                    |
|--------------------------------|-------------|--|
| Quotation                      | QUOTES      | ORDERS01<br>ORDERS02<br>ORDERS03<br>ORDERS04 |
| Sales order confirmation       | ORDERSP     | ORDERS01<br>ORDERS02<br>ORDERS03<br>ORDERS04 |
| Invoice                        | INVOIC      | INVOIC01<br>INVOIC02                         |
| Invoice list                   | INVOIC      | INVOIC01<br>INVOIC02                         |
| Foreign trade billing document | INVOIC      | EXPINV01<br>EXPINV02                         |

The IDoc type is the version number. The highest number always represents the latest version. In the list above, ORDERS04 is the most up-to-date IDoc type for sales orders.

The segments available in the IDoc are defined in the IDoc type. The following segments have been added for the IDoc types below:

| IDoc type / newly added segments for:                 | Segments  | Description   |
|---|---|---|
| ORDERS02<br>Inbound orders with configurable products | E1CUREF<br>E1CUCFG<br>E1CUINS<br>E1CUPRT<br>E1CUVAL | Order item reference<br>Configuration data<br>Instance data<br>Part of data<br>Characteristic valuation |

**IDoc Types for Outbound Messages (SD)**

|  |  |  |
|--|--|--|
| <p>ORDERS03<br/>Delivery order</p>                 | <p>E1EDL37<br/>E1EDL38<br/>E1EDL39<br/>E1EDL44</p> | <p>Shipping unit header<br/>Control segment for shipping units<br/>Shipping unit header descriptions<br/>Shipping unit item (delivery)</p> |
| <p>ORDERS04<br/>Payment cards, additional data</p> | <p>E1EDK35<br/>E1EDK36<br/>E1EDP35</p>             | <p>Document header, additional data<br/>Document header, payment cards<br/>Document item, additional data</p>                              |

**IDoc Types for Outbound Messages (LE)****IDoc Types for Outbound Messages (LE)**

The following outbound EDI (Electronic Data Interchange) messages are available in the standard system.

| <b>EDI standard term</b> | <b>Output type</b> | <b>IDoc type</b> |
|--------------------------|--------------------|------------------|
| Shipping notification    | DESADV             | DELVRY01         |
| Shipment notification    | SHPMNT             | SHPMNT01         |
|                          |                    | SHPMNT02         |

The IDoc type is the version number. The highest number always represents the latest version.

## Inbound Message Processing (SD)

### Purpose


If you receive external EDI messages in your SAP System, you need this component to convert these messages, so that your system can understand them. In inbound processing, IDocs are transferred to the IDoc interface and stored in the SAP System. The document data is generated in a second step.

### Features

The following inbound EDI message types are available in Sales and Distribution:

- inquiries
- sales orders
- order changes
- forecast delivery schedules
- JIT delivery schedules
- credit memos
- pick-up sheets
- external agent delivery notes

The system carries out the following tasks:

- performs technical and application-specific checks on the data transferred in the IDoc
- automatically determines the information which is not present in the IDoc and which is essential for processing in the SAP System
  -  – determination of the SAP material number on the basis of the customer material number
  - determination of organizational data
- assigns a [status record \[Ext.\]](#) to the IDoc

For more information on inbound processing in general, see [Inbound Processing \[Ext.\]](#) in the cross-application documentation *The IDoc Interface (CA-EDI)*.

## IDoc Types for Inbound Messages (SD)

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The following inbound EDI (Electronic Data Interchange) messages are available in the standard system.

| EDI standard term                 | Output type | IDoc type                                    |
|-----------------------------------|-------------|--|
| Inquiry                           | REQOTE      | ORDERS01<br>ORDERS02<br>ORDERS03<br>ORDERS04 |
| Sales order                       | ORDERS      | ORDERS01<br>ORDERS02<br>ORDERS03<br>ORDERS04 |
| Sales order change                | ORDCHG      | ORDERS01<br>ORDERS02<br>ORDERS03<br>ORDERS04 |
| Delivery order<br>(Pick-up sheet) | DELORD      | ORDERS03<br>ORDERS04                         |
| Forecast delivery schedule        | DELINS      | DELFOR01                                     |
| Just-in-time delivery schedule    | DELJIT      | DELFOR01                                     |
| Self billing procedure            | GSVERF      | GSVERF01                                     |
| External agent delivery note      | EDLNOT      | DESADV01                                     |

The IDoc type is the version number. The highest number always represents the latest version. In the list above, ORDERS04 is the most up-to-date IDoc type for sales orders.

For more information on inbound messages in the component supplier industry, see the following documentation in *Scheduling Agreements for Component Suppliers*:

- [Controlling Inbound EDI \[Ext.\]](#)
- [Intermediate Documents for Scheduling Agreements \[Ext.\]](#)
- [Intermediate Documents for Delivery Orders \[Ext.\]](#)