Copyright © 2014 Infor

Important Notices

The material contained in this publication (including any supplementary information) constitutes and contains confidential and proprietary information of Infor.

By gaining access to the attached, you acknowledge and agree that the material (including any modification, translation or adaptation of the material) and all copyright, trade secrets and all other right, title and interest therein, are the sole property of Infor and that you shall not gain right, title or interest in the material (including any modification, translation or adaptation of the material) by virtue of your review thereof other than the non-exclusive right to use the material solely in connection with and the furtherance of your license and use of software made available to your company from Infor pursuant to a separate agreement, the terms of which separate agreement shall govern your use of this material and all supplemental related materials ("Purpose").

In addition, by accessing the enclosed material, you acknowledge and agree that you are required to maintain such material in strict confidence and that your use of such material is limited to the Purpose described above. Although Infor has taken due care to ensure that the material included in this publication is accurate and complete, Infor cannot warrant that the information contained in this publication is complete, does not contain typographical or other errors, or will meet your specific requirements. As such, Infor does not assume and hereby disclaims all liability, consequential or otherwise, for any loss or damage to any person or entity which is caused by or relates to errors or omissions in this publication (including any supplementary information), whether such errors or omissions result from negligence, accident or any other cause.

Although Infor has taken due care to ensure that the material included in this publication is accurate and complete, Infor cannot warrant that the information contained in this publication is complete, does not contain typographical or other errors, or will meet your specific requirements. As such, Infor does not assume and hereby disclaims all liability, consequential or otherwise, for any loss or damage to any person or entity which is caused by or relates to errors or omissions in this publication (including any supplementary information), whether such errors or omissions result from negligence, accident or any other cause.

Without limitation, U.S. export control laws and other applicable export and import laws govern your use of this material and you will neither export or re-export, directly or indirectly, this material nor any related materials or supplemental information in violation of such laws, or use such materials for any purpose prohibited by such laws.

Trademark Acknowledgements

The word and design marks set forth herein are trademarks and/or registered trademarks of Infor and/or related affiliates and subsidiaries. All rights reserved. All other company, product, trade or service names referenced may be registered trademarks or trademarks of their respective owners.

Publication Information

<table>
<thead>
<tr>
<th>Document code</th>
<th>U8998G US</th>
</tr>
</thead>
<tbody>
<tr>
<td>Release</td>
<td>10.4</td>
</tr>
<tr>
<td>Publication date</td>
<td>November 4, 2014</td>
</tr>
</tbody>
</table>
Table of Contents

About this document

Chapter 1 Introduction ........................................................................................................................................7
   An overview of EDI business documents........................................................................................................7

Chapter 2 Business Document Order ...................................................................................................................9
   EDI business document Order .........................................................................................................................9
   Order (ORD) ......................................................................................................................................................10
   Order Acknowledgement/Response (ORS) ........................................................................................................11
   Order Change (ORC) .......................................................................................................................................11
   Order Change Acknowledgement/Response (OCA) ........................................................................................12

Chapter 3 Business Document Schedule ...........................................................................................................13
   EDI business document Schedule ..................................................................................................................13
   Purchase schedules ........................................................................................................................................13
   Purchase releases ...........................................................................................................................................14
   Preparing EDI messages for push schedules .................................................................................................15
   Preparing EDI messages for pull forecast schedules ....................................................................................15
   Preparing EDI messages for pull call-off schedules ....................................................................................15
   Processing EDI messages ...............................................................................................................................16

Chapter 4 Business Document Delivery ...........................................................................................................19
   EDI business document Delivery ..................................................................................................................19
   Advance Shipment Notification (ASN) ...........................................................................................................20
   Reprocessing messages with errors ................................................................................................................20
   Receipt Discrepancy Notification (RDN) ........................................................................................................21

Chapter 5 Business Document Freight .............................................................................................................23
   EDI business document Freight ....................................................................................................................23
   Load Information to Carrier (FML) ................................................................................................................23
   Carrier Status Information (FMS) ..................................................................................................................24
Chapter 6 Business Document Invoice
EDI business document Invoice
Invoice (INV)
Remittance Advice (RAD)

Chapter 7 Business Document Error Handling
EDI business document Error Handling
Sending Error Notification (824/APERAK) to supplier
Receiving Error Notification (824/APERAK) from customer
Resending canceled and corrected shipment notices in response to received Error Notifications

Appendix A Glossary

Index
Objective
A business document describes a business process between trading partners. The objective of this guide is to describe the various types of business documents in the context of EDI and to give a functional explanation of the involved EDI messages, which are supported by Baan Electronic Message Interchange System (BEMIS).

Intended audience
This user guide is intended for the following categories of users:

▪ Users who develop business documents/EDI messages.
▪ Users who want to understand what they can expect from a BEMIS business document and its related EDI messages, as developed by LN.

Document summary
The first chapter, *Introduction*, describes the purpose and the general characteristics of the business documents in the context of EDI.

The following chapters describes the EDI messages that relate to the various types of business documents.

This user guide is also provided with a glossary list and an index, which you can find at the end of this book.

References

▪ To understand the purpose, contents, and setup of BEMIS, refer to *User Guide for BEMIS U8912 US*.

▪ For details on the content and structure of the various business document types, refer to *Document Definitions* at [Infor EDI](#).

How to read this document
This document was assembled from online Help topics. As a result, references to other sections in the manual are presented as shown in the following example:

For details, refer to *Introduction*. To locate the referred section, please refer to the table of contents or use the index at the end of the document.

Underlined terms indicate a link to a glossary definition. If you view this document online, you can click the underlined term to go to the glossary definition at the end of the document.

Comments?
We continually review and improve our documentation. Any remarks/requests for information concerning this document or topic are appreciated. Please e-mail your comments to documentation@infor.com.
In your e-mail, refer to the document number and title. More specific information will enable us to process feedback efficiently.

Contacting Infor
If you have questions about Infor products, go to the Infor Xtreme Support portal at www.infor.com/inforxtreme.

If we update this document after the product release, we will post the new version on this Web site. We recommend that you check this Web site periodically for updated documentation.

If you have comments about Infor documentation, contact documentation@infor.com.
An overview of EDI business documents

*Electronic data interchange (EDI)* is used to exchange business documents between two systems. Users can specify business documents of various external *EDI standards*, such as VDA, UN/EDIFACT, Odette, and ANSI. With the Baan Electronic Message Interchange System (BEMIS) standard, external standards are converted to an internal LN standard. Conversion of the internal standard to an external standard and vice versa is performed by an EDI translator.

A business document describes a business process between trading partners.

BEMIS supports the following business documents:

- *Order* (p. 9)
- *Schedule* (p. 13)
- *Delivery* (p. 19)
- *Freight* (p. 23)
- *Invoice* (p. 25)
- *Error Handling* (p. 29)
Introduction
EDI business document Order

The business document Order describes the order cycle between trading partners and includes these EDI messages:

- **ORD**
  Order (p. 10)

- **ORS**
  Order Acknowledgement/Response (p. 11)

- **ORC**
  Order Change (p. 11)

- **OCA**
  Order Change Acknowledgement/Response (p. 12)

Complete these steps to process a simple order cycle:

1. **ORD**
   In the Purchase Order (tdpur4100m900) session, create a purchase order that can be sent electronically. Approve the purchase order and prepare an EDI message using the Print Purchase Orders (tdpur4401m000) session.
2. **ORS**
   In the Sales Order (tdsls4100m900) session, review the order. Approve the order and generate the acknowledgement EDI message in the Print Sales Order Acknowledgements/RMAs (tdsls4401m000) session.

3. **ORC**
   If required, change and re-approve the purchase order in the Purchase Order (tdpur4100m900) session. Again, prepare the EDI message using the Print Purchase Orders (tdpur4401m000) session.

4. **OCA**
   Review the changed order in the Sales Order (tdsls4100m900) session, re-approve the order, and print the acknowledgement EDI message in the Print Sales Order Acknowledgements/RMAs (tdsls4401m000) session.

**Order (ORD)**

The order cycle is initiated when you do either of the following:

- Specify a purchase order in the Purchase Order (tdpur4100m900) session for a selling company that is set up as a trading partner.
- Use an order type that has a link to an EDI message and that has the Print Purchase Orders (tdpur4401m000) activity linked. When you print the purchase order, the **New EDI Messages Have Been Prepared** message appears. The EDI process begins after you create and print the purchase order.

After you prepare a purchase order for EDI in Procurement, the outgoing EDI Order message (ORD) is generated by Electronic Data Interchange. The Messages to be Generated (ecedi7100m000) session verifies whether a message is prepared that must be sent to the purchasing company’s supplier, which is the selling company.

In the Direct Network Communication (ecedi7205m000) session, you can receive and generate EDI messages. If you select the **Generate Outgoing Message before Connection** check box in the Networks (ecedi0120s000) session, you can generate all outgoing messages prior to reading incoming messages. Running the session creates the ASCII files for the prepared EDI messages. EDI messages generated by LN for external EDI are stored in the appl_from subdirectory. For internal EDI, all generated and received messages are stored in the appl_comm subdirectory, because each company has the same network path.

If you do not use the option to generate outgoing messages before connection in the Networks (ecedi0120s000) session, you can use the Generate EDI Messages (ecedi7201m000) session to create the ASCII files for outgoing messages.

Translation software translates files received from an external trading partner into the file format defined by the BEMIS conversion setups. The translated ASCII files are placed into the appropriate appl_to directory. Internal EDI does not require translation of the files.

Use the Direct Network Communication (ecedi7205m000) session to receive the purchase order. When the customer’s order is received, a sales order is created in Sales. The **Remarks in Copied Messages**
report is generated, which shows the customer order data, the newly created sales order number, sales order lines, and any related remarks.

Order Acknowledgement/Response (ORS)

Sales orders can be reviewed in the Sales Order (tdsls4100m900) session. If necessary, you can make changes to the order. If you print the order acknowledgement in the Print Sales Order Acknowledgements/RMAs (tdsls4401m000) session, the outgoing EDI Order Acknowledgment/Response (ORS) message is prepared.

To send an acknowledgment to the customer, which is the purchasing company, use the Direct Network Communication (ecedi7205m000) session. A report is created that shows which EDI messages are generated. External EDI business partner messages are placed in the appl_from subdirectory under the directory specified for the network. Translation software retrieves the message. Internal EDI business partner messages are stored in the appl_comm subdirectory.

Order Change (ORC)

To change a purchase order that has been sent to the supplier, you can send the supplier an Order Change (ORC) message. Maintain the purchase order in the Purchase Order (tdpur4100m900) session. To notify the supplier that you want to:

- Cancel an order line, cancel the order line in Procurement and assign a change type code representing a canceled line.
- Delete an order line, assign a change type code representing a deleted line. After the Order Change Acknowledgment/Response (OCA) is received from the supplier, you can delete the order line.

Print the changed purchase order lines. Select the lines you want to print in the Print Purchase Orders (tdpur4401m000) session. When the session is run, LN verifies whether the order(s) is prepared for EDI and stored in the Messages to be Generated (ecedi7100m000) session.

If the Generate Outgoing Message before Connection check box is selected in the Networks (ecedi0120s000) session, you can use the Direct Network Communication (ecedi7205m000) session to generate the Order Change (ORC) message. If the Generate Outgoing Message before Connection check box is cleared, you can use the Generate EDI Messages (ecedi7201m000) session to create the ASCII files for outgoing messages. Both sessions generate a report that shows which messages were generated, and both display the reference number, message, and order number.

Use the Direct Network Communication (ecedi7205m000) session to receive the changed purchase order (OCA). When the session receives the customer’s changes to an order, the sales order is updated. A Remarks in Copied Messages report is generated, which shows the order and order lines that were updated, as well as any related remarks.
Note

Change type and change reason information is automatically defaulted from the Purchase Order Parameters (tdpur0100m400) or the Sales Order Parameters (tdsls0100s400) session, when:

- An order line is manually changed or canceled.
- An order line is added to an existing order.
- An order line detail is split.
- Backorder lines are generated. If the sales order line is already completely delivered after a change backorder message comes in from Procurement, a new sales order line is created with a Default Change Type for Add Order Line. If a backorder line is confirmed as a result of partial delivery, the incoming change message of Default Change Type for Change Order Line is processed at the selling company for the open backorder line.

Order Change Acknowledgement/Response (OCA)

You can review updates to the order in the Sales Order (tdsls4100m900) session. To acknowledge the changes, use the Order Acknowledgment/Response (ORS) or the Order Change Acknowledgment/Response (OCA) message. You can define which message must be sent in the EDI Order Change Response field of the Sold-to Business Partner (tccom4110s000) session.

When printing the acknowledgement, select the lines you want to print in the Print Purchase Orders (tdpur4401m000) session. The outgoing EDI Order Acknowledgment/Response (ORS) message, or the Order Change Acknowledgment/Response (OCA) message is prepared.

Use the Direct Network Communication (ecedi7205m000) session to send the acknowledgement to the customer/purchasing company. A report is created that shows which EDI messages are generated. External EDI business partner messages are placed in the appl_from subdirectory under the directory specified for the network. Translation software retrieves the message. Internal EDI business partner messages are stored in the appl_comm subdirectory.
EDI business document Schedule

The business document Schedule describes the processing of EDI messages that are used in a supply chain environment, which makes use of purchase schedules to communicate requirements to the selling company.

Purchase schedules represent a timetable of planned requirements, and support long-term purchasing practices that have frequent deliveries. Purchase schedules are used rather than standard purchase orders when a more detailed way of specifying delivery dates and times for material requirements is required. Purchase schedules are unique for an item and are sent to the purchase business partner in a purchase release.

Purchase schedules

The following types of purchase schedules exist:

- **Push schedule**
  A list of time-phased requirements, generated by a central planning system, such as Enterprise Planning or Project that is sent to the purchase business partner. Push schedules contain both a forecast for the longer term and actual orders for the short term. A push schedule is a nonreferenced schedule.

- **Pull forecast schedule**
  A list of time-phased planned requirements, generated by Enterprise Planning, that is sent to the purchase business partner. Pull forecast schedules are only used for forecasting purposes. To order the items, a pull call-off schedule must be generated with the same schedule number as the pull forecast schedule. Similar to a push schedule, a pull forecast schedule is also a nonreferenced schedule.

- **Pull call-off schedule**
  A list of time-phased specific requirements of purchased items, triggered from Assembly Control, Shop Floor Control, or Warehousing (KANBAN, Time-phased order point). A pull call-off schedule is a referenced schedule.
Purchase releases

The purchase schedule can be sent through the following purchase releases:

- **Material release**
  A schedule on which forecast information is provided about shipping times, delivery times, and quantities. In general, a material release can be considered as a planning release. For push schedules, the material release can also include the actual order. In this case, the release is called a material release with shipping capabilities. A material release can include push schedules or pull-forecast schedules.

- **Shipping schedule**
  A schedule on which detailed information is given about shipping times or delivery times and quantities. A shipping schedule facilitates just-in-time (JIT) management. A shipping schedule can include push schedules or pull call-off schedules.

- **Sequence shipping schedule**
  A supplement to the material release or the shipping schedule with precise information about the production or deliveries of the requirements. This schedule can include the production or delivery sequence, the order, the place, and the time of unloading after shipment. A sequence shipping schedule can only include pull call-off schedules.

Consequently, the business document schedule includes these messages:

- **MRL**
  Material Release

- **SHP**
  Shipping Schedule

- **SEQ**
  Sequence Shipping Schedule
Preparing EDI messages for push schedules

To prepare EDI messages for push schedules in a purchase release:

1. Create a purchase schedule header in the Purchase Schedules (tdpur3110m000) session and purchase schedule lines in the Purchase Schedule Lines (tdpur3111m000) session.
2. Create a purchase release line in the Generate Release Lines (tdpur3222m000) session.
3. Approve the purchase release line in the Approve Release Lines (tdpur3222m100) session.
4. Print the purchase release in the Print Purchase Releases (tdpur3422m000) session with the Final Report and the Prepare EDI messages check boxes selected.

Note

- If the Release EDI Message Directly check box is selected in the Purchase Contract Line Logistic Data (tdpur3102m000) session or the Items - Purchase Business Partner (tdipu0110m000) session, LN automatically prepares the EDI messages when a purchase release receives the status Scheduled in the Purchase Releases (tdpur3120m000) session.
- Use the Direct Network Communication (ecedi7205m000) session to generate the outgoing message. A report will list the messages that were generated. The outgoing messages for an external EDI business partner are stored in the appl_from directory for retrieval by translation software.
- For information about release types, requirement types and corresponding EDI messages, refer to Purchase schedule release types.

Preparing EDI messages for pull forecast schedules

A pull forecast schedule can be generated only from the Generate Order Planning (cprrp1210m000) session in Enterprise Planning and cannot be created manually. Based on the parameters and triggers, the following steps are carried out automatically to prepare EDI messages for pull forecast schedules in a purchase release:

1. A purchase schedule header is generated in the Purchase Schedules (tdpur3110m000) session and purchase schedule lines are generated in the Purchase Schedule Lines (tdpur3111m000) session.
2. A purchase release is generated in the Generate Release Lines (tdpur3222m000) session.
3. The purchase release is approved in the Approve Release Lines (tdpur3222m100) session.
4. The purchase release is printed in the Print Purchase Releases (tdpur3422m000) session.

Preparing EDI messages for pull call-off schedules

A pull call-off schedule can be generated from Assembly Control through the Transfer Assembly Part Supply Messages (tiasc8220m000) session, or from Warehousing through the Generate Orders (KANBAN) (whinh2200m000) or Generate Orders (TPOP) (whinh2201m000) sessions. A pull call-off
schedule cannot be created manually. Based on the parameters and triggers, the following steps are carried out automatically to prepare EDI messages for pull call-off schedules in a purchase release:

1. A purchase schedule (header) is generated in the Purchase Schedules (tdpur3110m000) session. If the pull call-off schedule is preceded by a pull forecast schedule, LN searches for the corresponding pull forecast schedule in the Purchase Schedules (tdpur3110m000) session. Once found, a pull call-off schedule is created with the same schedule number as the pull forecast schedule. In this way, forecasting data and ordering data are separated. If no forecasting data is generated, the pull call-off schedule, as generated in the Purchase Schedules (tdpur3110m000) session, has no corresponding pull forecast schedule.

2. Schedule lines are generated in the Purchase Schedule Lines (tdpur3111m000) session. If the release type that is linked to the pull call-off schedule is Sequence Shipping Schedule, a schedule line for each call-off is generated in the Purchase Schedule Lines (tdpur3111m000) session, but the sequence details for a particular call off, such as VIN number, and line station are stored in the Sequence Shipping Data (tdpur3517m000) session.

3. A purchase release is generated with the status Scheduled in the Purchase Releases (tdpur3120m000) session. With every generation of a schedule line, a release line detail record is generated in the Purchase Release Line - Details (tdpur3522m000) session. This record has a one-to-one relationship with the schedule line.

   - Only a purchase release header is created. No purchase release lines and purchase release line detail records are created, because items in a sequence shipping schedule are required for a combination of vehicle number (VIN), line station, and assembly kit. For this reason, a link exists between the release header in the Purchase Releases (tdpur3120m000) session and the release lines in the Purchase Release Lines - Sequence Shipping Data (tdpur3523m000) session.

   - Depending on the settings of the Generate Release per Vehicle and Generate Release per Item check boxes in the Purchase Releases (tdpur3120m000) session, the release is either created by vehicle or by item or business partner.

4. The purchase release is printed in the Print Purchase Releases (tdpur3422m000) session.

### Processing EDI messages

You can use the Direct Network Communication (ecedi7205m000) session to receive the customer’s new release or to update an existing release.

When you receive a new Material Release (MRL), Shipping Schedule (SHP), or Sequence Shipping Schedule (SEQ), a sales release and corresponding schedule(s) are created in Sales. Depending on the release type, an update to an existing sales release results in a new revision for the sales release and the corresponding schedule(s), or in updated sales release/sales schedule(s).

When EDI messages are processed, this data is generated:

- A sales release with revision number one in the Sales Releases (tdsls3512m000) session. If a new EDI message is received for an existing sales release, a sales release revision is created with revision number two, and so on.
- Sales release lines in the Sales Release Lines (tdsls3508m000) session.
- Sales release position details in the Sales Release Line Details (tdsls3515m000) session, for referenced schedules of the Shipping Schedule type. The Schedule Revisions for Referenced Shipping Schedules check box in the Schedule Terms and Conditions (tctrm1131m000) session determines whether sales schedule revision numbers are used for referenced shipping schedules. If this check box is cleared and if you receive an update of a referenced shipping schedule, no new sales schedule revision number is created. Instead, the sales schedule is updated. If an update arrives for a sales schedule line, also the sales schedule line is updated. To keep track of the updates, LN files the sales schedule line updates as revisions in the Sales Release Line Details (tdsls3515m000) session. Consequently a sales release position detail refers to a sales schedule line.

- A sales schedule with a sales schedule revision number of one in the Sales Schedules (tdsls3111m000) session. If new requirements are received for an existing sales schedule, a sales schedule revision is created with revision number two, and so on. The previous sales schedule revision and its requirements are no longer valid after the new sales schedule revision is approved.

- Sales schedule lines in the Sales Schedule Lines (tdsls3107m000) session.

- Sequence shipping information in the Shipping Sequence (whinh4520m000) session, and shipping sequence detail revisions in the Sequence Shipping Information (tdsls3517m000) session, provided the schedule is referenced and of the Sequence Shipping Schedule type. As with all incoming EDI messages, the Remarks in Copied Messages report is generated. The report displays the sales release number and corresponding lines added along with related remarks.
EDI business document Delivery

The business document Delivery describes the shipment and receipt of ordered goods and includes these EDI messages:

- **ASN**  
  *Advance Shipment Notification (p. 20)*
- **RDN**  
  *Receipt Discrepancy Notification (p. 21)*

To ship and receive ordered goods:

1. After a sales order is released to Warehousing in the Release Sales Orders to Warehousing (tdsIs4246m000) session, prepare the order for shipment to the purchasing company using the Generate Outbound Advice (whinh4201m000) and the Release Outbound Advice (whinh4202m000) sessions. Outbound advice includes information for moving goods from a warehouse storage location to a loading dock for shipment.

2. Use the Freeze/Confirm Shipments/Loads (whinh4275m000) session, or the Confirm Outbound ASN (whinh4230m100) session to confirm shipments that will prepare Advance Shipment Notification (ASN) messages.

3. Use the Shipment Notices (whinh3100m000) session to receive the advance shipment notice that is sent by the selling company.
4. Use the Warehouse Receipt (whinh3512m000) session to record the quantity of goods received from the selling company.

5. Confirm the receipt in the Warehouse Receipt (whinh3512m000) session. After you confirm a receipt or receipt line, LN sends a Receipt Discrepancy Notice (RDN) message to the selling company if the received quantity differs from the shipment notice line quantity. A discrepancy notice is sent only if advanced shipment notices are used.

Advance Shipment Notification (ASN)

The delivery process is initiated when you do either of the following:

- Prepare the warehousing order for shipment to the purchasing company using the Generate Outbound Advice (whinh4201m000) and the Release Outbound Advice (whinh4202m000) sessions.
- Confirm the shipment in the Freeze/Confirm Shipments/Loads (whinh4275m000) session or the Confirm Outbound ASN (whinh4230m100) session to prepare Advance Shipment Notification (ASN) EDI messages.

If the **Generate ASNs Automatically** check box is selected in the Inventory Handling Parameters (whinh0100m000) session, the Freeze/Confirm Shipments/Loads (whinh4275m000) session prepares the outgoing Advance Shipment Notification (ASN) message. If the **Generate ASNs Automatically** check box is cleared, you must use the Confirm Outbound ASN (whinh4230m100) session to prepare the outgoing Advance Shipment Notification (ASN) message.

An Advance Shipment Notification (ASN) message can be sent using the Direct Network Communication (ecedi7205m000) session. The generated EDI messages are displayed on a report. External EDI business partner messages are placed in the appl_from subdirectory under the directory specified for the network. Translation software will retrieve the message. Internal EDI business partner messages are stored in the appl_comm subdirectory.

An advance shipment notice (ASN) is an unconfirmed receipt. If the ASN correctly reflects the contents of the shipment, it can be confirmed, after which the ASN becomes a receipt. The receipt process is faster if ASNs are received electronically: data entry time is reduced and also the risk of errors. In the Warehouse Receipt (whinh3512m000) session, a selected shipment notice automatically populates the receipt data with the data from the shipment notice.

Reprocessing messages with errors

Validation errors can appear when incoming messages are processed. These errors prevent the message from being updated in the LN application. The entire message is stored in the Saved Messages to be Received table and you can view and correct the message using the Saved Messages to be Received (ecedi7150m000) session.

A unique batch number is assigned to each processing occurrence for each network. The Saved Messages to be Received (ecedi7150m000) session records processed incoming messages. Use this session to display received batch references created when incoming EDI messages are processed successfully or unsuccessfully.
Use the Saved Messages to be Received (ecedi7150m000) session to view and correct data. If you choose to review the messages interactively, or if errors are encountered when message data is validated, an EDI message will not be processed. The unprocessed message is referred to as Saved Messages to Be Received. When you select a record, the saved message data details are displayed in the Saved Message Data to be Received (ecedi7151s000) session.

After the message data is corrected, the message must be approved before it can be reprocessed. Use the Approve Saved Messages to be Received (ecedi7250m000) session and the Process Saved Messages to be Received (ecedi7252m000) session to complete the steps required for reprocessing a message.

After the saved message is successfully processed and updated in the LN application with the Process Saved Messages to be Received (ecedi7252m000) session, the saved message is automatically deleted from saved messages to be received.

If you decide not to process the message, you can delete the message with the Print Saved Messages to be Received (ecedi7450m000) and/or Delete Saved Messages to be Received (ecedi7251m000) sessions. You can access both sessions from the appropriate menu in the Saved Messages to be Received (ecedi7150m000) session.

Receipt Discrepancy Notification (RDN)

Advance shipment notices can be used to fill receipt data in the Warehouse Receipt (whinh3512m000) session. If a discrepancy exists between the shipment notice quantity and the actual quantity received and recorded, the discrepancy is logged. After the receipt is confirmed, a Receipt Discrepancy Notification message (RDN) is prepared for EDI.

The default conversion setup definition of the outgoing receipt discrepancy message includes the receipt discrepancy code. The code defines the type of discrepancy as follows:

- Quantity received greater than the quantity indicated on the shipment notice (quantity over).
- Quantity received less than the quantity indicated on the shipment notice (quantity short).
- Shipment notice not received prior to receipt of goods (No ASN).

To indicate that the shipment notice was not received prior to the arrival of the goods, use the Shipment Notices (whinh3100m000) session to manually specify a shipment notice with zero quantities.

The Direct Network Communication (ecedi7205m000) session will generate the outgoing Receipt Discrepancy Notification (RDN) message. A report lists the messages that were generated, and for external EDI, the outgoing message (ASCII) files are stored in the appl_from directory for the translation software.

To receive the Receipt Discrepancy Notification (RDN) message, use the Direct Network Communication (ecedi7205m000) session. This session retrieves the RDN message from the appl_to directory, after the ASCII file is placed in the directory by translation software. The message indicates that a discrepancy was found between the quantity indicated on the Advance Shipment Notice (ASN) and the quantity actually received.

The EDI Information fields at the shipment header, and the shipment line’s text field are updated with the information in the discrepancy message.
EDI business document Freight

The business document Freight describes shipment and tracking of loads and shipments; it includes the following EDI messages:

- **FML**
  *Load Information to Carrier (p. 23)*
- **FMS**
  *Carrier Status Information (p. 24)*

### Load Information to Carrier (FML)

Load Information to carrier (FML) messages notify business partners of forthcoming subcontracting instructions. The messages are prepared when you print subcontracting instructions using either of the following sessions:

- **Actualize Freight Order Clusters (fmfoc3210m000)**
  In this session, select the **Print Subcontracting Instructions** check box, and then select Final.
- **Print Subcontracting Instructions (fmfoc3410m000)**
  In this session, select Final.
To generate the EDI messages prepared, use the Generate EDI Messages (ecedi7201m000) session. Use the Direct Network Communication (ecedi7205m000) session to generate the outgoing message. A report will list the messages that were generated. The outgoing messages for an external EDI trading partner are stored in the appl_from directory for retrieval by translation software.

Carrier Status Information (FMS)

Carrier status (FMS) messages are sent by business partners to facilitate tracking of freight order clusters, freight order cluster lines, loads, and shipments. The carrier status information is displayed in the Status field of the following sessions:

- Load/Shipmennt Tracking (fmlbd4150m000)
- Load (fmlbd4100m100), Tracking tab.
- Shipment (fmlbd3100m100), Tracking tab.

To access carrier status and other tracking information from other sessions:

1. Click Tracking on the appropriate menu of any of the following sessions:
   - Freight Order Clusters (fmfoc3100m000)
   - Freight Order Cluster Lines (fmfoc3101m000)
   - Loads (fmlbd4100m000)
   - Shipments (fmlbd3100m000)
   - Shipment Lines (fmlbd3150m000)

2. If required, on the Filter by Status menu, point to Sort By..., and then click the appropriate option:
   - Freight Order Cluster
   - Freight Order Cluster Line
   - Load
   - Shipment

3. Double-click a line to view tracking details.
EDI business document Invoice

The business document Invoice describes the invoicing and payment of goods and includes these EDI messages:

▪ **INV**
  *Invoice (p. 26)*
▪ **RAD**
  *Remittance Advice (p. 27)*

The Invoice (INV) message results from the Invoicing procedure in Invoicing. Invoices can be sent to a business partner electronically from Invoicing. The Invoice (INV) message can be received in Accounts Payable under Financials.

The Remittance Advice (RAD) message is received during the Electronic Bank Statements procedure in Cash Management under Financials. A remittance advice includes information about the transactions being settled by a payment, which is sent to the selling company by the purchasing company.

Both the invoicing procedure and the electronic bank statements (EBS) procedure include a large number of steps. This business document does not discuss all of these steps, but only the ones that relate to the generation and processing of the Invoice (INV) and Remittance Advice (RAD) messages.
Invoice (INV)

To generate the Invoice (INV) message:

1. After invoicing data is released to Invoicing, create a billing request in the Billing Requests (cisli2100m000) session.
2. Use the Compose/Print/Post Invoices (cisli2200m000) session to process the billing request, which includes composing the invoice for the released data and printing the original invoice. You can also use the Print Invoices (cisli2400m000) session to print the invoice. Printing the original invoice prepares the Invoice (INV) for EDI transmission.

Remittance Advice (RAD)

To generate and process the Remittance Advice (RAD) message:

1. Use the Remittance Advices (tfcmg2150m000) session to view the Remittance Advice Messages (RAM), and add or change messages with the Converted status, if required.
2. Use the Match Bank Statements (tfcmg5210m000) session to match the converted Remittance Advice Messages (RAD) automatically against the open invoices/items. The matched remittance advice is then matched to the received EBS for reconciling the open entries.

Importing bank statements and matching total receipts against open items can save considerable time when processing bank transactions and reconciling accounts.

Invoice (INV)

After you ship the goods to the customer, which is the purchasing company, and after you transfer the order to Invoicing and create a billing request, use the Compose/Print/Post Invoices (cisli2200m000) or Print Invoices (cisli2400m000) sessions to prepare the Invoice (INV) for EDI transmission.

If the Generate Outgoing Message before Connection check box is selected in the Networks (ecedi0120s000) session, use the Direct Network Communication (ecedi7205m000) session to generate the outgoing message and to provide a report that displays the generated messages. If you do not use the option to generate outgoing messages before connection in the Networks (ecedi0120s000) session, you can use the Generate EDI Messages (ecedi7201m000) session to create the ASCII files for outgoing messages.

External EDI messages are placed in the appl_from subdirectory specified for the network and the translation software retrieves the messages. Internal EDI messages need not be translated and are stored in the appl_comm subdirectory, which is used for outgoing and incoming messages.

To receive the Invoice (INV) message from a supplier, which is the selling company, use the Direct Network Communication (ecedi7205m000) session. A purchase invoice is created and two reports are generated. The Remarks in Copied Messages report shows the invoice number(s) generated, along with some pertinent remarks. The Incoming EDI Purchase Invoice report lists the invoiced quantity and amounts at the line level, and the tax amounts by tax code ID, if applicable.
If goods are received before the Invoice (INV) message is received, automatic invoice matching occurs. If the invoice message arrives before the order is received, the purchase invoice remains unmatched and can be manually matched when the goods are received.

The invoice matching can occur either at the invoice header or at the invoice line depending on the data received in the incoming purchase invoice message:

- **Invoice Matching at the Invoice Header**
  To perform invoice matching at the header, the Automatic Matching check box must be selected in the ACP Parameters (tfacp0100m000) session. If the received message includes a valid customer purchase order number in the invoice header and no invoice order line information, the entire order is matched for all order lines that have goods received. If the tolerance is not met, the entire purchase invoice remains unmatched.

- **Invoice Matching at the Invoice Line**
  If the received message includes order line information, each invoice line is matched to the customer order lines for which goods were received. The invoice lines for which no goods are received remain unmatched.

You can view the received invoice data in the Match/Approve Purchase Invoices (tfacp2107m000) session.

**Remittance Advice (RAD)**

To receive the Remittance Advice (RAD) message from your customer (pay-by business partner), use the Direct Network Communication (ecedi7205m000) session. This session retrieves the RAD message from the appl_to directory, after the ASCII file is placed in the directory by translation software.

After the Remittance Advice (RAD) message is received, a remittance advice message (receipt) is created along with the Remarks in Copied Messages report. This report shows the document number(s) generated and some pertinent remarks.

You can use the Remittance Advices (tfcmg2150m000) session to view the received information, based on which you can take further action.
EDI business document Error Handling

The business document Error Handling describes sending, receiving, and processing Error Notification messages.

Sending Error Notification (824/APERAK) to supplier

The EDI Messages Supported by Business Partner (ecedi0511m000) session includes the Automatically Prepare Error Notification check box. If both trading partners select this check box, and an error exists in the received Shipment Notice (856), an outgoing Error Notification (824) message will be prepared.

To manually prepare the Error Notification message, you must run the Print Received Message Errors (ecedi7451m000) session with the Prepare Error Notification check box selected. The error notification can be prepared for any erroneous message received, but is of particular use for shipment notices with errors that are received in supply chain environments.

Use the Direct Network Communication (ecedi7205m000) session to generate the outgoing message. A report will be created that lists the generated messages.

Receiving Error Notification (824/APERAK) from customer

After you receive an Error Notification (824/APERAK) from your customer (ship-to business partner), and the message (ASCII) files are placed in the appropriate appl_to directory by the translation/communication software, use the Direct Network Communication (ecedi7205m000) session to receive the Error Notification message.

An incoming Error Notification is associated with a shipment for which an invalid shipment notice was originally sent, and reports application errors that occurred when your business partner tried to process the previously sent shipment notice.

When the Error Notification is received, the following occurs:

- The status of the shipment for which the Error Notification was received, is set to Disapproved.
- The Remarks in Copied Message report is generated, showing the shipment notice number against which the Error Notification message was received, and any related remarks.
Optionally, the **EDI Information** field on the shipment header may be updated with the contents of the Error Notification message.

The shipment notice referenced in the received Error Notification message, is automatically prepared for EDI transmission (856/DESADV out).

As with all prepared outgoing messages, you can verify whether the outgoing message was prepared for EDI using the Messages to be Generated (ecedi7100m000) session. If you do not want the message to be generated the next time the Direct Network Communication (ecedi7205m000) session is run, you can delete the message from this session.

### Resending canceled and corrected shipment notices in response to received Error Notifications

If you wish to send a canceled shipment notice to your customer, and if the network is set up to generate messages upon Direct Network Communication, run the Direct Network Communication (ecedi7205m000) session. Otherwise, run the Generate EDI Messages (ecedi7201m000) session to manually generate the outgoing message. When the outgoing canceled shipment notice is generated, the shipment’s EDI status is **Modify**, indicating that the shipment should be modified to correct the erroneous data, and resent to your business partner.

**Note**

These shipment notices are supported:

- **A canceled shipment notice**
  A canceled shipment notice is intended to cancel a previously sent erroneous shipment notice. In the Conversion of Shipment Status Codes (out) (ecedi4180m000) session, you can specify original or canceled message codes, which are included in the message.

- **An original shipment notice**
  If the shipment’s EDI status is **Confirmed**, the shipment notice is considered to be an original message. If the shipment’s EDI status is **Disapproved**, the shipment notice is considered to be a canceled message.

If the shipment’s EDI status is **Modify**, you can correct the reported errors by correcting the shipment’s date/time, quantity or weight and any other EDI data included on the original shipment notice, after which you can resend the corrected shipment notice to your business partner. To resend the corrected shipment notice, use the Confirm Outbound ASN (whinh4230m100) session to prepare the corrected shipment notice (856/DESADV) for transmission; preparing the outgoing shipment notice sets the shipment's EDI status to **Confirmed**. If the network is set up to generate messages upon Direct Network Communication, run the Direct Network Communication (ecedi7205m000) session. Otherwise, run the Generate EDI Messages (ecedi7201m000) session to manually generate the outgoing message.

For external EDI, the outgoing message (ASCII) files are placed in the appl_from directory, under the network’s directory, from which the translation/communication software will retrieve them.
advance shipment notice

A notification that a shipment has been sent. Advanced shipment notices are sent and received by means of EDI. You can receive advance shipment notices from your supplier informing you that goods are to arrive at your warehouse, and/or you can send advance shipment notices to your customers that the goods they ordered are about to be delivered.

Synonym: shipment notice
Abbreviation: ASN

ANSI

This acronym stands for American National Standards Institute. ANSI is the 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.

appropriate menu

Commands are distributed across the Views, References, and Actions menus, or displayed as buttons. In previous LN and Web UI releases, these commands are located in the Specific menu.

ASN

See: advance shipment notice (p. 31)

billing request

Selects the order types and orders to be invoiced. If you process a billing request, LN selects the invoicing data and generates the invoices for the order types and orders selected through the billing request.

call-off

To call up goods from a business partner based on a purchase schedule. Call-off involves sending a message (EDI) to notify a business partner that the scheduled items must be delivered. The message contains the item quantity and the date and time they must be delivered.
change reason

A means used to identify the reason for a change to a sales or purchase order, for example, a contract limitation, feasibility issue, or transportation limitation. A change reason is identified by a code.

change type

A user-defined code that can be used to identify types of changes made to orders, such as a price change or quantity increase.

EDIFACT

This acronym stands for Electronic Data Interchange for Administration, Commerce, and Transport. A worldwide organization developing standards for electronic data interchange.

There are other similar organizations (for example, Odette), each using its own subset of standard EDIFACT messages.

When you define messages, you can use the naming convention that coincides with the standard naming conventions to which you are accustomed.

EDI standard

A protocol defined at national and international levels to define the process, procedures, and format of electronically transmitted data (messages) between two business partners.

electronic bank statements (EBS)

- A system for automatic processing of electronic bank statements received from the bank on disk, tape, over the Internet, or by modem.
- The electronic bank statement files.

electronic data interchange (EDI)

The computer-to-computer transmission of a standard business document in a standard format. Internal EDI refers to 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 business partners.

nonreferenced schedule

A schedule that contains lines without a reference number. Because no specific requirement exists for the schedule line, nonreferenced schedule lines can first be clustered and then ordered, shipped, and received together.
purchase release

A purchase release is used to send out, under one release number, those schedules that share the following common characteristics:

- Buy-from business partner
- Ship-from business partner
- Ship-to address
- Release type (material release/ shipping schedule/ sequence shipping schedule)
- Shipment based schedule/ receipt based schedule
- Communication method
- Warehouse

purchase schedule

A timetable of planned supply of materials. Purchase schedules support long-term purchasing with frequent deliveries and are usually backed by a purchase contract. All requirements for the same item, buy-from business partner, ship-from business partner, purchase office, and warehouse are stored in one schedule.

RAM

See: remittance advice message (RAM) (p. 33)

referenced schedule

A schedule that contains lines with reference numbers. When goods are shipped, received, and invoiced, the reference numbers are used to communicate with suppliers and other LN packages.

release type

A classification used to specify the type of the release based on which schedule requirements are grouped and EDI messages can be generated. These messages are indicated by the used schedule.

remittance advice message (RAM)

A notification in which a business partner states the amounts he has transferred per bank. These notifications can be received electronically through EDI or diskette, in standard EDI format.

Synonym: RAM
requirement type

Three requirement types exist that represent a requirement in time, used for scheduling.

The available requirement types are:

- Immediate
- Firm
- Planned

For non-referenced schedules, requirement types are linked to segments.

For pull forecast schedules, the requirement type is always Planned or Immediate. For pull call-off schedules, the requirement type is always Firm.

sales release

Identifies, by one release number, those sales schedules that share the following common characteristics:

- Sold-to business partner.
- Ship-to business partner.
- Ship-to address.
- Release type (material release/ shipping schedule/ sequence shipping schedule/ pick-up sheet).
- Shipment based schedule/ receipt based schedule.
- Schedule quantity qualifier.
- Forecast horizon start and end.
- Sales release origin.
- Customer release.
- (Customer order).

sales schedule

A timetable of planned supply of materials. Sales schedules support long-term sales with frequent deliveries. All requirements for the same item, sold-to business partner, ship-to business partner, and delivery parameter are stored in the same sales schedule.

sales schedule revision number

A number that uniquely identifies the revision of the sales schedule. The sales schedule revision number indicates the sales schedule updates that are sent by your business partner.

sequence shipping schedule

A shipping schedule with precise information about the production or deliveries of the requirements. This schedule can include the production or delivery sequence, and the order, the place, and the time of unloading after shipment.
shipment notice

See: advance shipment notice (p. 31)

subcontracting instructions

Subcontracting instructions constitute the subcontracting order for a carrier. The subcontracting instructions list the goods for which the carrier is to carry out the transportation.

VDA

Acronym for Verband der Automobilindustrie; A standard for automotive electronic interchange of business transactions in Germany. This particular standard uses a fixed length field/record format.
advance shipment notice, 31
ANSI, 31
appropriate menu, 31
ASN, 31
billing request, 31
call-off, 31
change reason, 32
change type, 32
Delivery
EDI business document, 19
EDI standard, 32
electronic bank statements (EBS), 32
electronic data interchange (EDI), 32
Error handling
ED business document, 29
Freight
EDI business document, 23
Invoice
EDI business document, 25
nonreferenced schedule, 32
Order
EDI business document, 9
Overview
EDI business document, 7
purchase release, 33
purchase schedule, 33
RAM, 33
referenced schedule, 33
release type, 33
remittance advice message (RAM), 33
requirement type, 34
sales release, 34
sales schedule, 34
sales schedule revision number, 34
Schedule
EDI business document, 13
sequence shipping schedule, 34
shipment notice, 31
subcontracting instructions, 35
VDA, 35
Index