

User's Guide for EDI Business Documents

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About this document

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 Infor ERP 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.

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.

An overview of EDI business documents

Electronic data interchange (EDI) is used to exchange business documents between two systems. In the Electronic Commerce package, users can define business documents of various external *EDI standards*, such as *VDA*, *UN/ EDIFACT*, *Odette*, *ANSI*, and so on. With the Baan Electronic Message Interchange System (BEMIS) standard, external standards are converted to an internal ERP 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*
- *Schedule*
- *Delivery*
- *Freight*
- *Invoice*
- *Error Handling*

Chapter 2

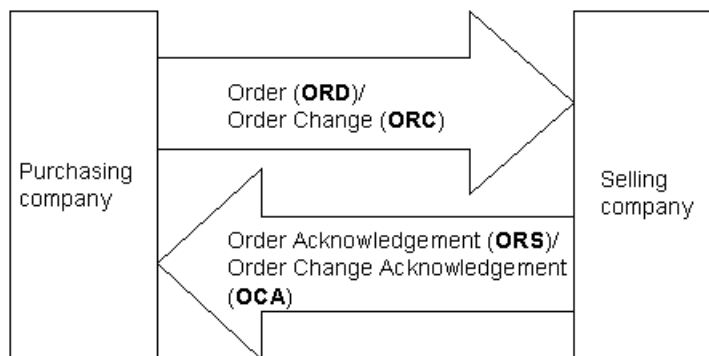
Business Document Order

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EDI business document Order

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

- **ORD**
Order (p. 2-2)
- **ORS**
Order Acknowledgement/Response (p. 2-3)
- **ORC**
Order Change (p. 2-3)
- **OCA**
Order Change Acknowledgement/Response (p. 2-4)



Complete the following steps to process a simple order cycle:

1. **ORD**
In the Purchase Order - Lines (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 - Lines (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 - Lines (tdpur4100m900) session. Again, prepare the EDI message using the Print Purchase Orders (tdpur4401m000) session.

4. OCA

Review the changed order in the Sales Order - Lines (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:

- Enter a purchase order in the Purchase Order - Lines (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 the Purchase Control module, the Electronic Data Interchange module generates the outgoing EDI Order message (ORD). 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 ERP LN for external EDI are stored in the appl_from subdirectory, and, 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, and, as stated previously, all internal EDI messages are stored in the appl_comm subdirectory.

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 the Sales Control module. 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 - Lines (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 - Lines (tdpur4100m900) session.

To notify the supplier that you want to:

- Cancel an order line, cancel the order line in Purchase Control 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, ERP 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 have been 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.
- Back order lines are generated. If the sales order line is already completely delivered after a change back order message comes in from Purchase Control, a new sales order line is created with a **Default Change Type for Add Order Line**. If a back order 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 back order line.

Order Change Acknowledgement/Response (OCA)

You can review updates to the order in the Sales Order - Lines (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 Partners (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 in place of standard purchase orders when a more detailed way of specifying delivery dates/times for material requirements is needed. Purchase schedules are unique for an item and are sent to the purchase business partner in a *purchase release*.

Purchase schedules

ERP LN supports the following types of purchase schedules:

- **Push schedules**

A push schedule is a list of time-phased requirements, generated by a central planning system, such as ERP LN Enterprise Planning or ERP LN Project that are 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 also called a *non-referenced schedule*. A non-referenced schedule is a schedule that contains lines without a reference number. Because no specific requirement exists for the schedule line, non-referenced schedule lines can first be clustered (grouped to send the lines in one purchase release) and then ordered, shipped, and received together.

- **Pull forecast schedules**

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

- **Pull call-off schedules**

A pull call-off schedule is a list of time-phased specific requirements of purchased items, triggered from Assembly Control, Shop Floor Control, or ERP LN Warehouse Management (*Kanban, time-phased order point*). A pull call-off schedule is a *referenced schedule*. A referenced schedule contains lines with reference numbers. When goods are shipped, received, and invoiced, the reference numbers are used to communicate with suppliers and other ERP LN packages. Because a specific requirement exists for the schedule line, each single schedule line is ordered, shipped, and received separately.

Purchase releases

The purchase schedule can be sent by means of 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, however, the material release can also contain the actual order. In this case the release is called a material release with shipping capabilities. A material release can contain push schedules or pull forecast schedules.

- **Shipping schedule**

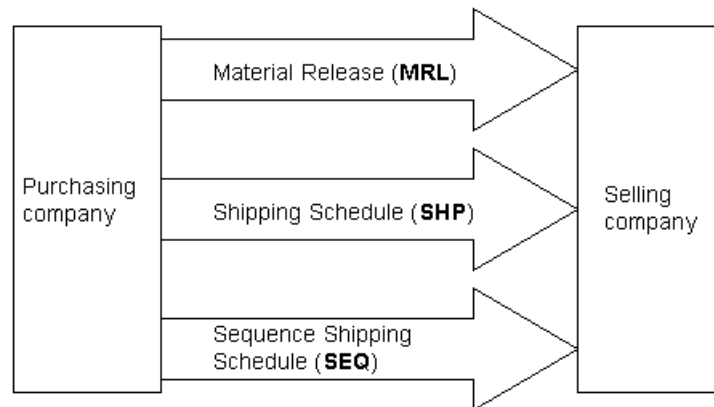
A schedule on which detailed information is given about shipping times or delivery times and quantities. A shipping schedule facilitates just-in-time (JIT) management. A shipping schedule can contain push schedules or pull call-off schedules.

- **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, and the order, the place, and the time of unloading after shipment. A sequence shipping schedule can only contain pull call-of schedules.

As a result, the business document schedule includes the following EDI messages:

- **MRL**
Material Release
 - **SHP**
Shipping Schedule
 - **SEQ**
Sequence Shipping Schedule
-



EDI messages and push schedules

A push schedule can use one of the following *release types*, which you can set in the **Schedule Release Detail** field of the Purchase Contract Line Logistic Data (tdpur3102m000)/ Items - Purchase Business Partner (tdipu0110m000) sessions:

- **Material Release**
Only material releases are sent. Shipping is performed based on the **Firm** or **Immediate** requirements in the Material Release (MRL).
- **Shipping Schedule**
Both material releases and shipping schedules are sent. Shipping is carried out based on the **Firm** and **Immediate** requirements in the Shipping Schedule (SHP). The Material Release (MRL) only sends forecasting data.
- **Shipping Schedule Only**
Only shipping schedules are sent. Shipping is carried out based on the **Firm** and **Immediate** requirements in the Shipping Schedule (SHP). No forecasting data is sent to the supplier.

Push schedules with release type set to Material Release

Release Type	Linked Requirement Type	Linked EDI messages (BEMIS)
Material Release	Planned	BEM MRL001
Material Release	Firm	BEM MRL001
Material Release	Immediate	BEM MRL001

The **Material Release** release type is only used by push schedules and only generates the EDI message BEM MRL001. As a result, shipping is performed based on the EDI message BEM MRL001, but only for those schedule lines whose requirement type is **Firm** or **Immediate**.

Push schedules with release type set to Shipping Schedule

Release Type	Linked Requirement Type	Linked EDI messages (BEMIS)
Material Release	Planned	BEM MRL001
Shipping Schedule	Firm	BEM SHP001
Shipping Schedule	Immediate	BEM SHP001

The **Shipping Schedule** release type generates both material releases (EDI message BEM MRL001) and shipping schedules (EDI message BEM SHP001). The schedule lines in a material release are released for planning purposes only. The shipping schedule only releases schedule lines whose requirement type is **Firm** or **Immediate**. Planned schedule lines are not included in the release. Shipping is performed based on the EDI message BEM SHP001.

Push schedules with release type set to Shipping Schedule Only

Release Type	Linked Requirement Type	Linked EDI messages (BEMIS)
Shipping Schedule	Firm	BEM SHP001
Shipping Schedule	Immediate	BEM SHP001

The **Shipping Schedule Only** release type only generates shipping schedules. No planning data is released to the supplier. The shipping schedule only releases schedule lines whose requirement type is **Firm** or **Immediate**. Schedule lines with the **Planned** requirement type are not included in the release. Shipping is carried out based on the EDI message BEM SHP001.

To prepare EDI messages for push schedules in a purchase release

Complete the following steps to prepare EDI messages for push schedules in a purchase release:

1. Generate a purchase schedule header in the Purchase Schedules (tdpur3110m000) session and purchase schedule lines in the Purchase Schedule - Lines (tdpur3111m000) session.
2. Generate 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 and/or the Items - Purchase Business Partner (tdipu0110m000) session, you need not print the purchase release in the Print Purchase Releases (tdpur3422m000) session to prepare EDI messages. ERP LN automatically prepares the 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 trading partner are stored in the appl_from directory for retrieval by translation software.

EDI messages and pull schedules

A pull schedule can use one of the following *release types*, which you can set in the **Schedule Release Detail** field of the Purchase Contract Line Logistic Data (tdpur3102m000) session and/or the Items - Purchase Business Partner (tdipu0110m000) session:

- **Shipping Schedule**
Both material releases and shipping schedules are sent.
 - Material releases are issued through the pull forecast schedule.
 - Shipping schedules are issued through the pull call-off schedule.
 - Shipping is carried out based on the **Firm** requirements in the Shipping Schedule (SHP). The Material Release (MRL) only sends forecasting data.
- **Sequence Shipping Schedule**
Both material releases and sequence shipping schedules are sent.
 - Material releases are issued through the pull forecast schedule.
 - Sequence shipping schedules are issued through the pull call-off schedule.
 - Shipping is performed based on the requirements in the Sequence Shipping Schedule (SEQ). The Material Release (MRL) only sends forecasting data.
- **Shipping Schedule Only**
Only shipping schedules are sent.
 - Shipping schedules are issued through the pull call-off schedule.
 - Shipping is carried out based on the **Firm** requirements in the Shipping Schedule (SHP).
 - No forecasting data is sent to the supplier through a pull forecast schedule.

Pull schedules with release type set to Shipping Schedule

Release Type	Linked Requirement Type	Linked EDI messages (BEMIS)
Material Release	Planned	BEM MRL001
Shipping Schedule	Firm	BEM SHP001
Shipping Schedule	Immediate	BEM SHP001

A pull forecast schedule only generates material releases (EDI message BEM MRL001) that contain **Planned** lines. EDI message BEM MRL001 is released for planning purposes only. The pull call-off schedule generates the shipping

schedule, releasing all the schedule lines whose requirement type is **Firm** or **Immediate**. Shipping is performed based on the EDI message BEM SHP001.

Pull schedules with release type set to Sequence Shipping Schedule

Release Type	Linked Requirement Type	Linked EDI messages (BEMIS)
Material Release	Planned	BEM MRL001
Sequence Shipping Schedule	Firm	BEM SEQ001
Sequence Shipping Schedule	Immediate	BEM SEQ001

The **Sequence Shipping Schedule** release type is only used by pull schedules and generates the EDI messages BEM MRL001 and BEM SEQ001. A pull forecast schedule only generates material releases (EDI message BEM MRL001) that contain **Planned** lines. EDI message BEM MRL001 is released for planning purposes only. The pull call-off schedule only generates sequence shipping schedules and releases all the schedule lines with the **Firm** or **Immediate** requirement type. Shipping is performed based on the EDI message BEM SEQ001.

Pull schedules with release type set to Shipping Schedule Only

Release Type	Linked Requirement Type	Linked EDI messages (BEMIS)
Shipping Schedule	Firm	BEM SHP001
Shipping Schedule	Immediate	BEM SHP001

The pull call-off schedule generates the shipping schedule, releasing all the schedule lines, which are always **Firm** or **Immediate**. No planning data is released to the supplier. Shipping is performed based on the EDI message BEM SHP001.

To prepare EDI messages for pull forecast schedules

A pull forecast schedule can only be generated from the Generate Order Planning (cprp1210m000) 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.

Note

If the **Release EDI Message Directly** check box is selected in the Purchase Contract Line Logistic Data (tdpur3102m000) session and/or the Items - Purchase Business Partner (tdipu0110m000) session, ERP 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 trading partner are stored in the appl_from directory for retrieval by translation software.

To prepare EDI messages for pull call-off schedules

A pull call-off schedule can only be generated from Assembly Control by means of the Transfer Assembly Part Supply Transfer Messages (tiasc8220m000) session, or from Warehouse Management by means of the Generate Orders (KANBAN) (whinh2200m000) and the 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. Because pull call-off schedules are usually preceded by a pull forecast schedule, ERP LN searches for the corresponding pull forecast schedule in the Purchase Schedules (tdpur3110m000) session. Once found, ERP LN creates a pull call-off schedule with the same schedule number as the pull forecast schedule. In this way, forecasting data and ordering data are separated. However, if the *release type*, defined in the **Schedule Release Detail** field of the Purchase Contract Line Logistic Data (tdpur3102m000) session is set
-

to **Shipping Schedule Only**, no forecasting data is generated, and 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, line station, and so on 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, ERP LN generates a release line detail record in the Purchase Release Line - Details (tdpur3522m000) session. This record has a one-to-one relationship with the schedule line.
If the schedule is a *sequence shipping schedule*, however, the following applies:
 - Only a purchase release header is created. No purchase release lines and purchase release line detail records are created. The reason for this is that 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 Production Synchronous Calls (tdpur3523m000) session.
 - Dependent on the setting of the **Generate Release per Vehicle** check box in the Purchase Releases (tdpur3120m000) session, the release is either created per item or per vehicle.
4. The purchase release is printed in the Print Purchase Releases (tdpur3422m000) session.

Note

If the **Release EDI Message Directly** check box is selected in the Purchase Contract Line Logistic Data (tdpur3102m000) session and/or the Items - Purchase Business Partner (tdipu0110m000) session, ERP 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 trading partner are stored in the appl_from directory for retrieval by translation software.

To process 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 the Sales Order Control module. 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).

As a result, the following information is automatically entered in ERP LN when EDI messages are processed:

- 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 Position Details (tdsls3515m000) session, for referenced schedules of the **Shipping Schedule** type. If you receive an update of a referenced shipping schedule, ERP LN does not create a new sales schedule revision number. 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, ERP LN files the sales schedule line updates as revisions in the Sales Release Position Details (tdsls3515m000) session. As a result, a sales release position detail refers to a sales schedule line.
- A *sales schedule* with *sales schedule revision number* 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 if the new sales schedule revision is approved. For referenced schedules of the **Shipping Schedule** type, no sales schedule revisions are used.
- 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.

Chapter 4

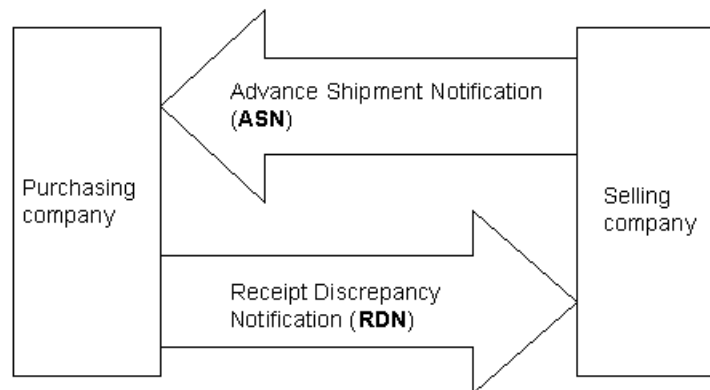
Business Document Delivery

4

EDI business document Delivery

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

- **ASN**
Advance Shipment Notification (p. 4-2)
- **RDN**
Receipt Discrepancy Notification (p. 4-3)



Complete the following steps to ship and receive ordered goods:

1. After a sales order is released to Warehouse Management in the Release Sales Orders to Warehousing (tdsls4246m000) 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 offers 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 Receipts (whinh3512m000) session to record the quantity of goods received from the selling company.
5. Confirm the receipt in the Warehouse Receipts (whinh3512m000) session. After you confirm a receipt or receipt line, ERP LN sends a Receipt Discrepancy Notice (RDN) message to the selling company if the received quantity is not equal to the shipment notice line quantity. ERP LN only sends a discrepancy notice 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. A report is provided that shows which EDI messages have been generated. 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. When the ASN correctly reflects the contents of the shipment and is confirmed, the ASN becomes a receipt. The receipt process is faster when an ASN is received electronically, because data entry time is reduced and the chance of errors is also decreased. In the Warehouse Receipts (whinh3512m000) session, a selected shipment notice automatically populates the receipt data with the data from the shipment notice.

To reprocess messages with errors

Validation errors can appear when incoming messages are processed. These errors prevent the message from being updated into the ERP 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 per 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 appear in the Saved Message Data to be Received (ecedi7151s000) session.

After the message data has been 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 into the ERP 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 **Application** menu in the Saved Messages to be Received (ecedi7150m000) session.

Receipt Discrepancy Notification (RDN)

Advance shipment notices can be used to populate receipt data in the Warehouse Receipts (whinh3512m000) session. If any discrepancy exists between the quantity shown on the shipment notice 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 enter 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.

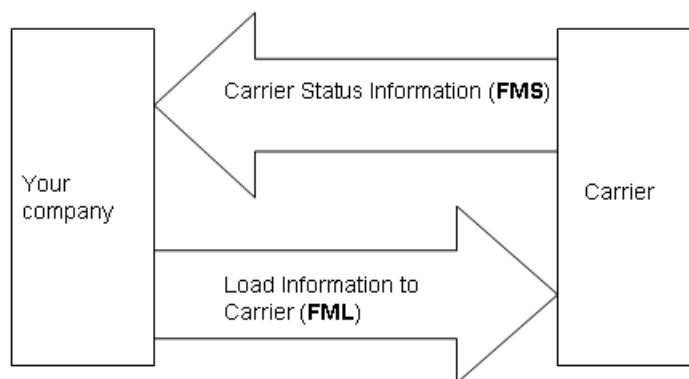
To receive the Receipt Discrepancy Notification (RDN) message, use the Direct Network Communication (ecedi7205m000) session. This session retrieves the RDN message from the appl_to directory, after the ASCII file is placed on the directory by translation software. The message indicates that a discrepancy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

The discrepancies between shipments and business partner receipts report compares the values in the discrepancy message with the shipment data and displays the differences and any text that is included. 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. 5-1)
- **FMS**
Carrier Status Information (p. 5-2)



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**.

Note

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

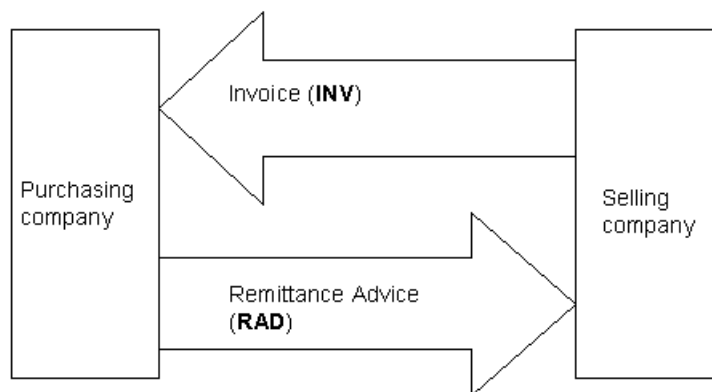
To access carrier status and other tracking information from other sessions:

1. Click **Tracking** on the **Specific** menu of any of the following sessions:
 - Freight Order Clusters (fmfoc3100m000)
 - Freight Order Cluster Lines (fmfoc3101m000)
 - Loads (fmlbd4100m000)
 - Shipments (fmlbd3100m000)
 - Shipment Lines (fmlbd3150m000)The Load/Shipment Tracking (fmlbd4150m000) session appears.
 2. If required, on the **View** 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 the following EDI messages:

- **INV**
Invoice (p. 6-2)
- **RAD**
Remittance Advice (p. 6-3)



The Invoice (INV) message results from the Invoicing procedure in the Central Invoicing package. The Central Invoicing package contains invoices that can be sent to a business partner electronically. The Invoice (INV) message can be received in the Accounts Payable module of the Financials package.

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

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, carry out the following steps in the invoicing procedure:

1. After invoicing data is released to Central 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, complete the following steps in the electronic bank statements procedure:

1. Use the Remittance Advice Messages (Receipts) (tfcmg5101s000) session to view the *Remittance Advice Messages (RAM)*, and add or change messages with the **Converted** status, if necessary.
2. Use the Match Electronic Bank Statements (tfcmg5212m000) 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 relevant 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 central invoicing and create a billing request, use the Compose/Print/Post Invoices (cisli2200m000) session or the Print Invoices (cisli2400m000) session 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 showing 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 (tfacp0100s000) 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 for which goods have been 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 included customer order lines for which goods have been received. The invoice lines for which the ordered goods have not yet been received remain unmatched.

You can view the received invoice data in the Match/Approve Purchase Invoices (tfacp2507m000) 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 on 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 Advice (tfcmg5501m000) session to view the received information, based on which you can take further action.

EDI business document Error Handling

This 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, and select the **Prepare Error Notification** check box. The error notification can be prepared for any erroneous message received, but is of particular use for shipment notices with errors received in conjunction with supply chain environments.

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

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 have been 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 and pertinent 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 that 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 canceling and corrected shipment notices in response to received Error Notifications

If you wish to send a canceling 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 canceling 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

In order to support the requirements of some EDI standards, ERP LN EDI supports the transmission of two kinds of shipment notices:

- **A canceling shipment notice**
A *canceling* shipment notice is intended to cancel a previously sent erroneous shipment notice. To utilize this feature, use the Conversion of Shipment Status Codes (out) (ecedi4180m000) session to define codes to include in the message indicating if the shipment notice is an original or a canceling 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 *canceling* message.

Optionally, if the shipment's EDI status is **Modify**, you may 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, and 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.

Appendix A

Glossary



A

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.

ASN

See: *advance shipment notice (p. A-1)*

billing request

Selects the order types and orders to be invoiced. If you process a billing request, ERP 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 (EBS) received from the bank on diskette or by means of data communication.
- 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.

Kanban

A demand-pull system of just-in-time production that regulates the supply of items to shop floor warehouses.

Kanban uses standard containers or lot sizes (also called bins) to deliver items to shop floor warehouses. In the shop floor warehouse, two or more bins are available with the same items. Items are only taken from one bin. If a bin is empty, a new bin is ordered and the items are taken from the (second) full bin. To each bin a label is attached. The line stations use the label to order a full bin with the required items. As a result, no inventory administration is done in the shop floor warehouse for the floor stock items that are used.

non-referenced schedule

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

Push schedules and pull forecast schedules are non-referenced schedules.

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/ delivery 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. A-4)

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 ERP LN packages. Because a specific requirement exists for the schedule line, each single schedule line is ordered, shipped, and received separately.

Pull call-off schedules are referenced schedules.

release type

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

A release can be of the following types:

- **Material Release:** a material release can contain push schedules or pull forecast schedules.
- **Shipping Schedule:** a shipping schedule can contain push schedules or pull call-off schedules.
- **Sequence Shipping Schedule:** a sequence shipping schedule can only contain pull call-of schedules.

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

sales release

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

- Sold-to business partner.
- Ship-to business partner.
- Release type (material release / shipping schedule / sequence shipping schedule).
- Shipment based schedule / delivery based schedule.
- Ship-to address.

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 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, and the order, the place, and the time of unloading after shipment.

shipment notice

See: *advance shipment notice (p. A-1)*

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.

time-phased order point

A push system that regulates the time-phased supply of items to warehouses.

The quantity of items that is supplied to the warehouse depends on:

- The available inventory in the warehouse.
- The inventory that is planned to be delivered to the warehouse within the specified order horizon.
- The specified safety stock, optionally adjusted to the seasonal factor for the current period, for the item and warehouse.

If the available inventory plus the planned inventory are below the reorder point, the inventory in the warehouse is replenished.

Abbreviation: TPOP

See: safety stock

TPOP

See: *time-phased order point (p. A-5)*

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.

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