ERP LE-SHP Output Determination

Overview

Outputs are an important media for communicating with business partners or with employees within an organization. The output can be sent both electronically and by mail.

Output control which is dependent on various criteria allows output to be processed and sent subject to certain conditions and restrictions. Output determination is carried out through condition technique.

Each application using the message control has an own application code:

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<thead>
<tr>
<th>Application</th>
<th>Key Area</th>
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</thead>
<tbody>
<tr>
<td>V1</td>
<td>Sales</td>
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<tr>
<td>V2</td>
<td>Shipping</td>
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<tr>
<td>V3</td>
<td>Billing</td>
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<tr>
<td>V6</td>
<td>Handling Units</td>
</tr>
<tr>
<td>V7</td>
<td>Transport</td>
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</table>

Most common output types in Shipping (V2):

**Examples**

- Stock Order (WSOR)
- Forwarding Notification (CANO), Shipping Order (SHOR)
- Shipping Notification (LAVA), Delivery Note (LD00),
- Packing List (PL00), Picking List (EK00).

Grouped deliveries

- partner-independent: Freight List (LL00)

Handling Unit

- partner-independent: XSI label (KEP6)

Message Determination: Determine the message which should be proceeded based on condition technique.
Message determination results in a proposal of:

- the recipient of the messages
- the transmission medium and
- the processing time

**Basic Customizing of output determination**

You can customize the output determination process for the following groups:

- Outbound deliveries
- Inbound deliveries
- Handling Units
- Delivery Groups

You can configure output determination process by 5 main steps:

1. Maintain condition tables
2. Maintain output types
3. Maintain Access sequences
4. Maintain output determination procedure
5. Assign output determination procedure

**Maintain condition tables**
This is the first step in the customization of an output determination process. Here you can define the key combinations/condition tables that are required for storing your output condition records.

Here you can define fields for your Condition Table:
The screen is divided into two columns: Selected Fields and Field Catalog. The Field Catalog column contains all the fields that you can choose from. The selected fields column shows all the fields that you selected for your condition table.

### Maintain output types

**Path:** IMG > Logistics Execution > Basic Shipping Functions > Output Control > Output determination > Maintain Output Determination for Outbound Deliveries > Maintain output types
What is output type?

An output type (or also a “condition type”) summarizes messages of the same meaning. It contains parameters that are valid for all its assigned messages, for example appropriate partner functions.

Example: LD00 Delivery Note

In the next steps we will check the customizing of output type LD00.

**Display View “Output Types”: Overview**

By double clicking on the output type you can configure the details of the output.

**General Data tab**

This tab controls the general behavior of an output type.
**Access Sequence**

The access sequence that is assigned to the output type for automatic output determination.

**Access to conditions**

Indicates whether the system determines the output by searching for valid condition records.

If you want the system to search condition records for the appropriate output, mark the field.

**Cannot Be Changed**

Indicates whether the output may be changed manually during processing after the output determined automatically.

**Multiple Issuing**

Indicates whether the same output may be issued to the same partner more than once.

Please check when multiple issuing could take place however it is flagged.

**Partner-Indep. Output**

During output processing, when the indicator has not been set, the system allows only certain partners in specific partner functions.

You define these allowed partners and functions in Customizing.

**Do Not Write Processing**

If this indicator is set, a processing log for the current output will not be written. Function is save database accesses and disk space.

**Default Values tab**

In the tab “default values” you can customize that when you are creating a condition record certain values will default when pressing enter, values entered into a condition record will always overrule values entered in customizing.
Dispatch time

You can process a message immediately by updating the application document or you can process it at a later time. For later processing you must use the report program RSNAST00 or a corresponding application function.

The options you can choose:

- **Dispatch Time 1**: The message is processed through report program RSNAST00. This report program can be scheduled periodically or started manually.
- **Dispatch Time 2**: As in time 1, but the message contains an earliest processing date and a requested processing time. The message is ignored by report program RSNAST00 before the requested date.
- **Dispatch Time 3**: The message is selected and processed by application specific programs. Processing can take place online or in the background.
- **Dispatch Time 4**: The message is processed when the application document is saved. No further processing of the message is necessary.

Message transmission medium

Specifies how the output will be produced.

You can choose from a wide list from fax till EDI (electronic data interchange)
Partner function

Here you can specify for which partner function should the output triggered.

By standard you have to use the abbreviated form of the name that identifies the partner function.

For example: Ship-to party 'SH' or Sold-to party to 'SP'

Communication Strategy

A communication strategy describes a sequence of communication methods that can be used while sending output messages externally.

Processing Routines

You can set the processing routines by clicking on 'Processing routines' in the left column.

In general combination of program and a form are attached to the output type. The program collects all the data needed in the document and the form sorts this data into a layout.

Partner functions

Here you can assign the relevant partner functions to the Message transmission medium. The assigned partner functions will be processed for the output.
Maintain Access sequences

⚠ Cross client customizing > also affect all other clients in the system

Path: IMG > Logistics Execution > Basic Shipping Functions > Output Control > Output determination > Maintain Output Determination for Outbound Deliveries > Maintain Access Sequences

Here you can maintain the access sequences what you assigned to output type on the ‘General Data’ Tab.
What is access sequence?

An access sequence is a message determination strategy used by the system to determine valid values for the message default.

The access sequence is a search path to follow in order to access the master condition output records created.

You must have the field “Access to Conditions” flagged in order that the output type uses the access sequence.

Exclusive flag

The access sequence can have the “exclusive” flag set which means that if one condition record is found, the system will not continue to search another access. If the exclusive flag was not set it would search each access and find each output condition record that was valid.

Requirement

With requirements assigned you can check a particular condition and the process only can executed if the condition satisfied.

Example: Requirement 35 If goods issue has been posted for the delivery and at least some of the items have been packed, then the output should be created.
## Maintain Output determination procedure

**Path:** IMG > Logistics Execution > Basic Shipping Functions > Output Control > Output determination > Maintain Output Determination for Outbound Deliveries > Maintain Output Determination Procedure

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<td></td>
<td>Decentralized WMS Integration</td>
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<td>Shipping Point and Goods Receiving Point Determination</td>
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<td>Incompletion Control for Deliveries</td>
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<td>Availability Check and Transfer of Requirements</td>
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<td>Output Control</td>
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<td>Output Determination</td>
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<td>Maintain Output Determination for Outbound Deliveries</td>
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<td>Maintain Condition Tables</td>
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<td>Assign Output Determination Procedures</td>
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If you want your document or item to use an output determination procedure you must assign it to the document type.

Choose the delivery document header, if you want the output type to display the whole document or choose assign delivery document item, if your output will only display item details.

**Procedures overview screen**
### Change View "Procedures": Overview

**Dialog Structure**
- **Procedures**
  - **Control Data**

**Procedures**
- **Proc...**
  - **Descr.**
  - **SPEDLR**
  - **SPEY10** Service Parts Management
  - **SPEV21**
  - **V10000 Header Output**
  - **V10001 Header Output - Automotive**
  - **V10050**
  - **V10TPS Ref. transport planning sys.**
  - **VIREL1**
  - **V20000 Decentr.Header Output**
  - **V20001 Item Output**
  - **V30000**
  - **V30001**

### Change View "Control Data": Overview

**Dialog Structure**
- **Procedures**
  - **Control Data**

**Procedure**
- **V10000 Header Output**

**Reference Step Overview**

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<th>CTyp</th>
<th>Description</th>
<th>Requirement</th>
<th>Manual only</th>
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<tbody>
<tr>
<td>10</td>
<td>1</td>
<td>1D00</td>
<td>Delivery Note</td>
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<tr>
<td>20</td>
<td>2</td>
<td>MAIL</td>
<td>Mail</td>
<td></td>
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<tr>
<td>30</td>
<td>3</td>
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<td>40</td>
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<td>Stk. Transf.CrdtDeliv</td>
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<tr>
<td>60</td>
<td>1</td>
<td>LAVA</td>
<td>Outg. ship.notifica.</td>
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</tbody>
</table>

**Step**
Sequence in which the output are arranged in the determination procedure

**Counter**
Set up the subsequence in which the output types have to be arranged in the determination procedure.
Condition Type
Here you enter the output type that you created earlier.

Description
The description of the output type.

Requirement
Here you can specify special requirements which should be checked before accessing the output type, if it fails then the output not accessed.

Manual only
By selecting the option the output could be processed manually only

Assigning the Output Determination Procedure

Path: IMG > Logistics Execution > Basic Shipping Functions > Output Control > Output determination > Maintain Output Determination for Outbound Deliveries > Assign Output Determination Procedure

Assignment is the final step in customizing output types.

Here you have the option to assign output determination to delivery header or delivery items.
Assign procedure to delivery header
Here you can assign the delivery type to the Output determination procedure and to the output type.

**Assign procedure to delivery items**

Here you can assign the delivery item category to the Output determination procedure.

**Change View "Output View TVLP": Overview**

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<th>ItCa</th>
<th>Description</th>
<th>OutptDetPr</th>
<th>Description</th>
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<tbody>
<tr>
<td>TAN</td>
<td>Standard Item</td>
<td>Y20001</td>
<td></td>
</tr>
<tr>
<td>TANN</td>
<td>Free of Charge Item</td>
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<tr>
<td>TAO</td>
<td>Milestone-Bill,Plan</td>
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**Related content**

1469493 - Delivery output is not generated after updating the delivery

2151003 - Requirement routines of output types are ignored when manually added

1472433 - Automatic Inbound delivery created using SPED output type shows wrong delivery dates

2150997 - Output EK00 is not determined in outbound delivery

2151941 - Error VN203 is issued from output EK00

1500354 - Update termination with error MC 601 when creating deliveries.

1459307 - Delivery output is not issued

1452099 - Error SVN000 "Communication cannot be used" in output

2157639 - Sending Emails to Multiple Recipients Using Medium 5 (External)

1594546 - USNAM field in NAST table information

1756674 - WMTA output shows as processed but no transfer order was created