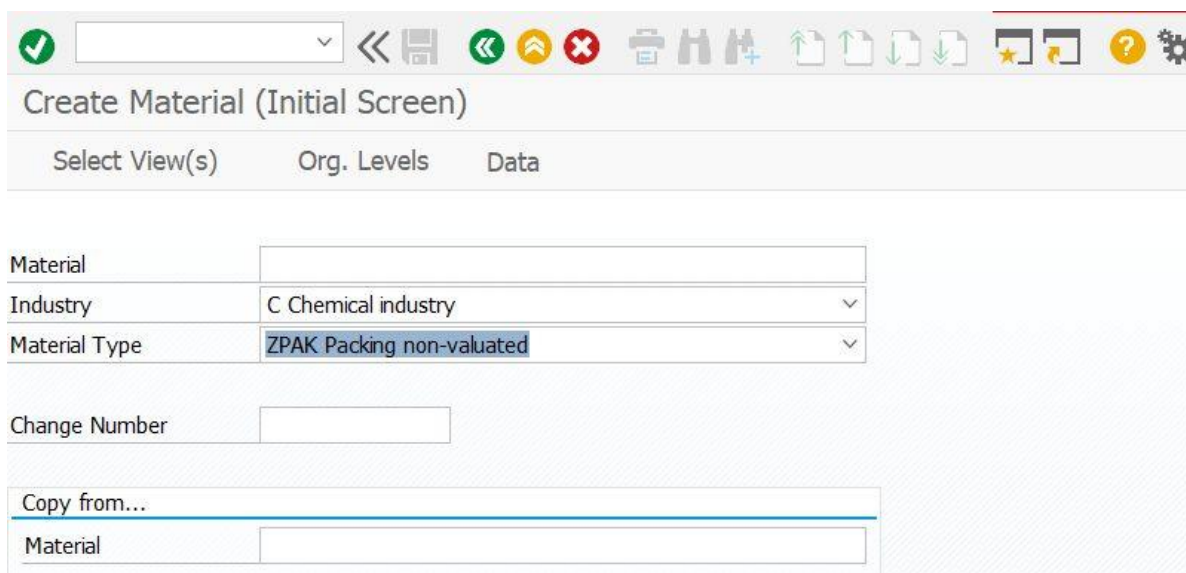


Solution Demo

GPAIS Waste and Packaging Reporting for Lithuania

Demo 1 - Create and classify a GPAIS packaging material

The user starts by creating a packaging material that is used only for GPAIS reporting and inbound receipt packaging administration. Packaging material has material type ZPAK, base unit PC/VNT and is not stored, sold or purchased as a commercial material.



The screenshot shows the SAP MM01 - Create Material initial screen. The title bar includes a green checkmark, a dropdown menu, and various icons. The main title is "Create Material (Initial Screen)". Below the title bar, there are three tabs: "Select View(s)", "Org. Levels", and "Data". The "Data" tab is active. The form contains the following fields:

- Material:** A text input field.
- Industry:** A dropdown menu with "C Chemical industry" selected.
- Material Type:** A dropdown menu with "ZPAK Packing non-valuated" selected.
- Change Number:** A text input field.
- Copy from...:** A section with a "Material" label and a text input field.

Figure 1. MM01 - Create Material initial screen. The user creates a packaging material with material type ZPAK.

No.	Required field / user action	Purpose
1	Industry sector	Select the relevant SAP industry sector for the material master. In the demo: C - Chemical industry.
2	Material type	Mandatory. Select ZPAK - packaging material used for GPAIS reporting and receipt packaging administration.
3	Material number	Enter a new material number or leave blank if internal number assignment is used.

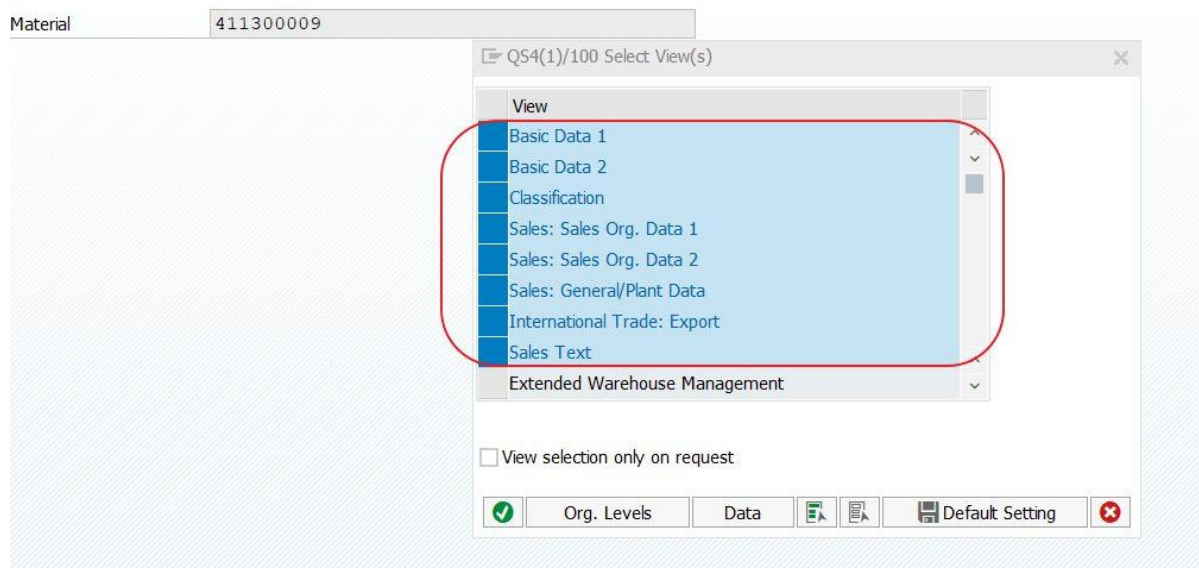


Figure 2. Select material master views. The user selects the views required for basic data, sales/plant data and classification.

No.	Required field / user action	Purpose
1	Basic Data 1 / Basic Data 2	Required to maintain description, base unit of measure and material grouping.
2	Classification	Required to assign GPAIS-relevant classes and characteristics.
3	Sales: Sales Org. Data / Sales: General/Plant	Used where the material requires sales/plant-level views for the company configuration.

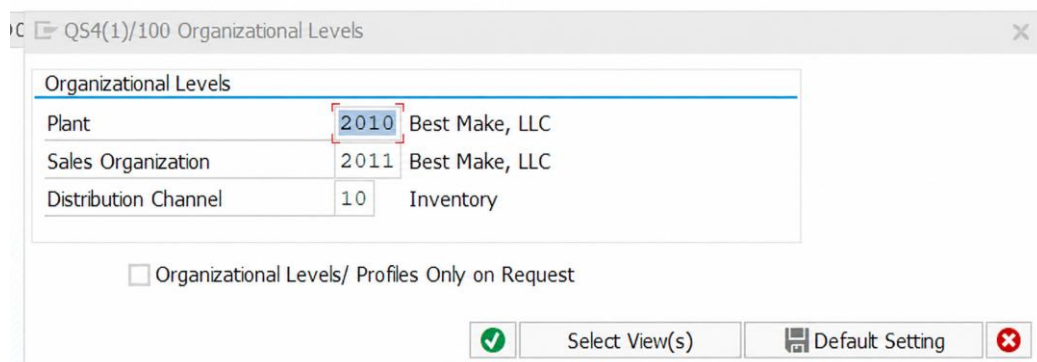
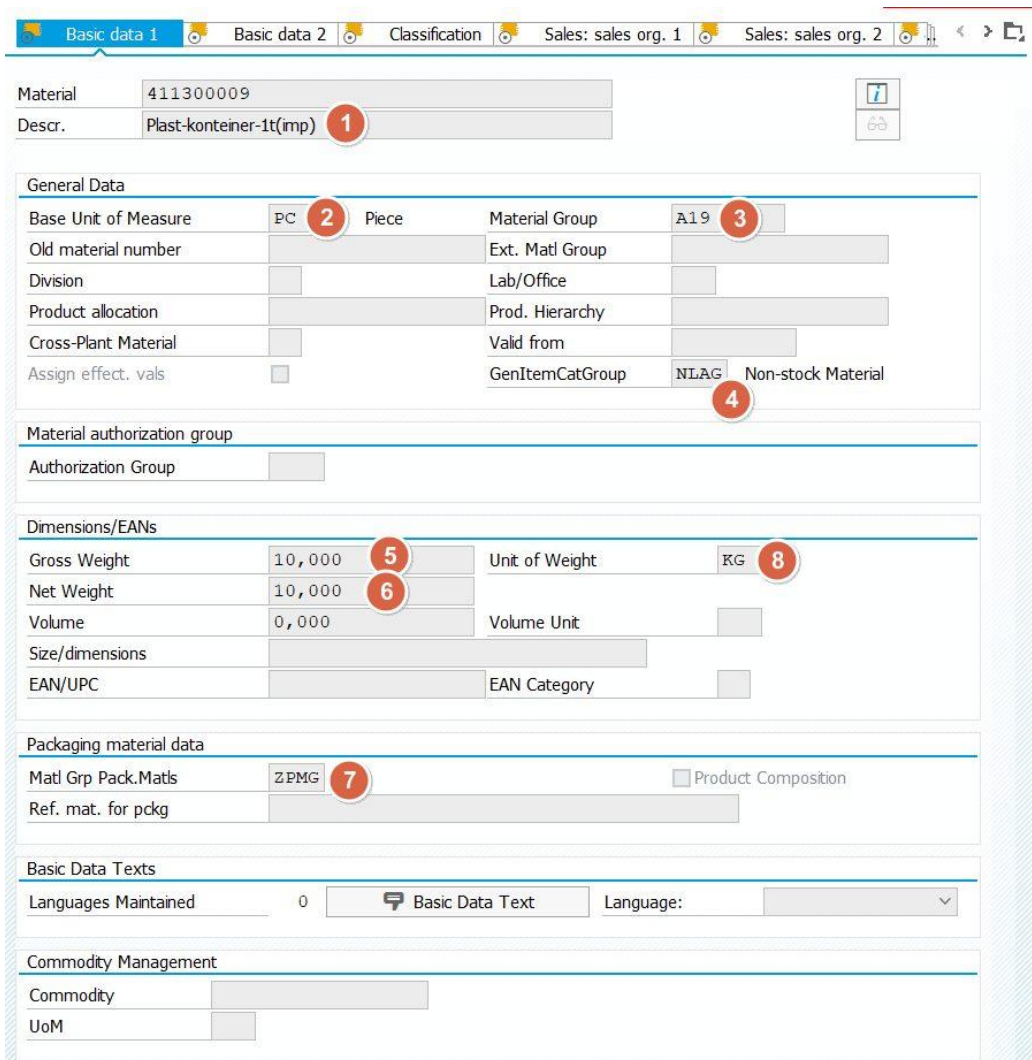


Figure 3. Organizational levels. Plant, sales organization and distribution channel are entered for the selected material views.

No.	Required field / user action	Purpose
1	Plant	Mandatory for plant-level views.
2	Sales organization	Required when sales views are selected.

3	Distribution channel	Required when sales views are selected.
---	----------------------	---



Basic data 1 Basic data 2 Classification Sales: sales org. 1 Sales: sales org. 2

Material 411300009

Descr. Plast-konteiner-1t(mp) 1

General Data

Base Unit of Measure PC 2 Piece Material Group A19 3

Old material number Ext. Matl Group

Division Lab/Office

Product allocation Prod. Hierarchy

Cross-Plant Material Valid from

Assign effect. vals GenItemCatGroup NLAG 4 Non-stock Material

Material authorization group

Authorization Group

Dimensions/EANs

Gross Weight 10,000 5 Unit of Weight KG 8

Net Weight 10,000 6

Volume 0,000 Volume Unit

Size/dimensions

EAN/UPC EAN Category

Packaging material data

Matl Grp Pack.Mats ZPMG 7 Product Composition

Ref. mat. for pkg

Basic Data Texts

Languages Maintained 0 Basic Data Text Language:

Commodity Management

Commodity

UoM

Figure 4. Basic Data screen with numbered mandatory fields for GPAIS packaging material maintenance.

No.	Required field / user action	Purpose
1	Material description	Mandatory. Enter the business name of the packaging material.
2	Base unit of measure	Mandatory. Use PC/VNT or another configured unit used for quantity handling.
3	Material group	Mandatory..Used to group packaging/waste materials.
4	General item category group	Mandatory for the shown configuration. In the demo this is NLAG - Non-stock Material.
5	Gross weight	Maintain the packaging weight where required for reporting or logistics consistency.

6	Net weight	Maintain the net weight where required by the customer configuration.
7	Packaging material group	Mandatory for packaging material classification in this SAP configuration. Demo value: ZPMG.
8	Unit of weight	Mandatory if gross or net weight is maintained.

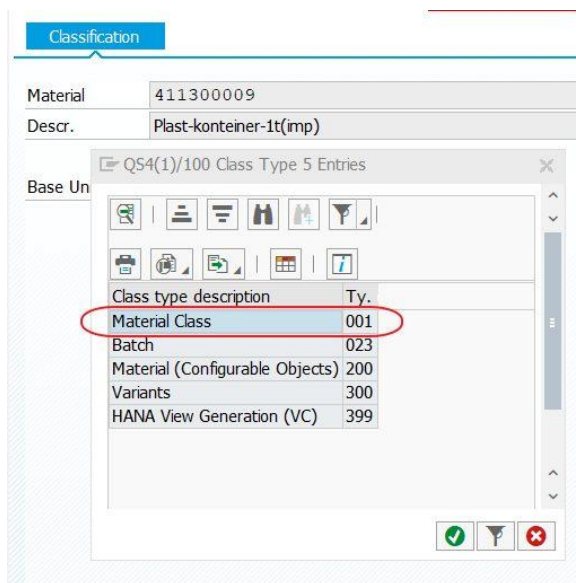


Figure 5. Classification class type selection. The user opens classification with class type 001 - Material Class.

Classification

Object

Material: 411300009

Class Type: 001  Material Class

Plast-konteiner-1t(imp)

Assignments

Class	Description	Sta...	S..	Icon	Itm
LE_000_PACKLEVEL1	Prekinė (pirminė)	☐	1		1
LE_000_GPAISRELEV	GPAIS_RELEVANT	☐	1		10

Entry: 1 / 2

Values for Class LE_000_GPAISRELEV - Object 411300009

General

Characteristic Description	Value
GPAIS_RELEVANT	
I. Deposit (1)	Neužstatinė
I. Package kind (1)	Plastikinė pirminė
I. Package type (1)	Vienkartinė
I. Recycling (1)	Perdirbama
I. Weight (1)	0,010000
I. GPAIS name (1)	Statinė
I. Units in TO	

Inconsistent

Figure 6. GPAIS classification characteristics. The packaging material is marked as GPAIS-relevant and receives package-level attributes.

No.	Required field / user action	Purpose
1	LE_000_GPAISRELEV	Determines whether material movements are relevant for GPAIS checks. If the value is "Not relevant", movements are excluded.
2	Package name characteristic	Stores the package name that will be transferred into the GPAIS product/package data.

Display Material 411300009 (Packing non-valuated)

Additional Data Org. Levels

Sales: sales org. 2 Sales: General/Plant 1 Intl Trade: Export Sales text EWM

Material 411300009
 Descr. Plast-konteiner-1t(mp)
 Plant 2010 Best Make, LLC

General data

Base Unit of Measure PC Piece Replacement Part
 Gross Weight 10,000 KG Qual.f.FreeGoodsDis.
 Net Weight 10,000 Material Freight Grp
 Availability check 2 KP No check
 Appr.batch rec. req.
 Batch management
 Batch management(Plant)

Shipping data (times in days)

Trans. Grp LoadingGrp
 Setup time 0,00 Proc. time 0,00 Base qty 0,000 PC

Packaging material data

Matl Grp Pack.Matls 3 ZPMG Maximum level 0
 Packaging Mat. Type 4 CART Stackability factor 0
 Allowed pkg weight 0,000 Excess wt tolerance 0,0
 Allowed pkg volume 0,000 Excess volume tol. 0,0
 Ref. mat. for pkg
 Closed

General plant parameters

Profit Center SerialNoProfile DistProf
 Neg.Stocks SerializLevel
 Ext. customer repl. parameters

Figure 7. Sales: General/Plant view. Numbered fields are maintained where required by the active material views and configuration.

No.	Required field / user action	Purpose
1	Sales: General/Plant view	The user opens the plant-level sales/logistics view that contains availability and packaging controls.
2	Availability check	
3	Material group for packaging materials	
4	Packaging material type	

Demo 2 - Link purchased material to packaging material

The user links the purchased material and the packaging material through a packing instruction. This enables packaging proposals during inbound delivery creation and provides a controlled source for GPAIS packaging quantities.

Display Packing Instruction: Components

PackInstructn

6

Short text

Metidietanolami Metal-stat-200(10)(imp)

Admin. data

Short Txts

Dim.

Components

Usages

Documents

Simulation

Warehouse

Itm	It...	Component	Short text	Target quantity	Minimum qty	Rounding qty	Unit of meas.
10 P	411300007		Metal-stat-200(10)(imp)	1,000			PC
20 R	111000003		Metidietanolam. Solvent Ucars..	1,000	0,000	0,000	TO
30 P	411300008		Med-palet-(25)	1,000			PC

Figure 8. Packing instruction components. Material M and packaging material P are linked with a quantity relationship.

No.	Required field / user action	Purpose
1	Purchased material line (M)	Represents the imported material that arrives with packaging.
2	Packaging material line (P)	Represents the ZPAK packaging material to be reported to GPAIS.
3	Target quantity / minimum quantity / rounding quantity	Defines the material-to-packaging relationship. More than one packaging material can be assigned to one purchased material.

Demo 3 - Maintain packaging during inbound delivery processing

The end user creates an inbound delivery with reference to a purchase order. The solution proposes packaging lines when the purchased material has a packing instruction. The user can correct packaging quantities, add missing packaging, or delete non-relevant packaging lines before continuing with goods receipt.

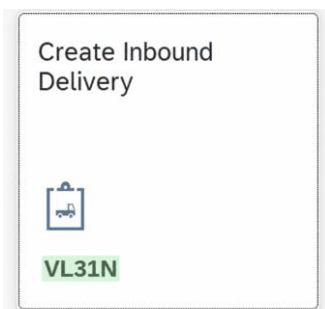


Figure 9. Fiori tile / transaction VL31N - Create Inbound Delivery.

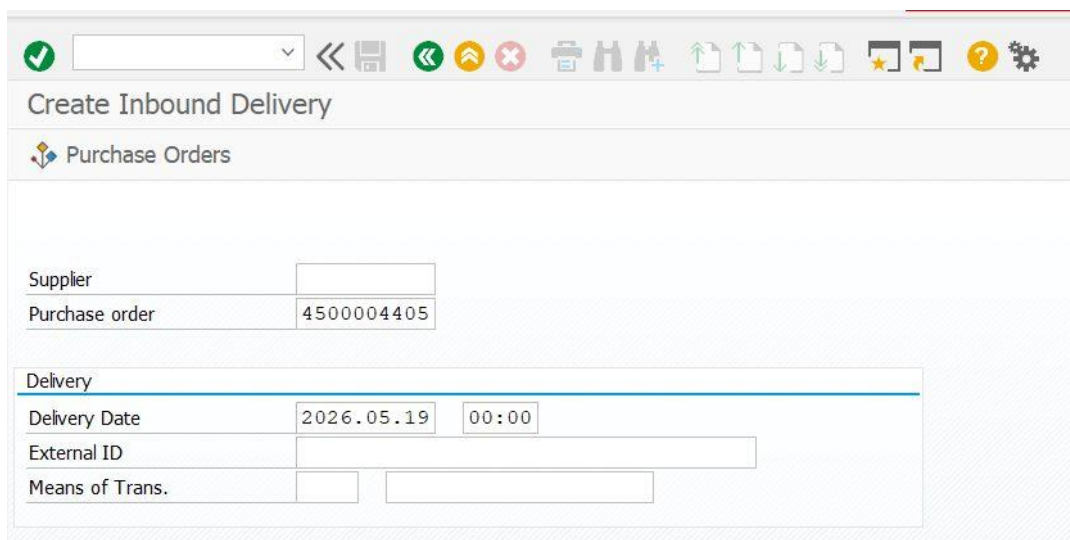


Figure 10. Create inbound delivery with purchase order reference.

No.	Required field / user action	Purpose
1	Purchase order	Mandatory. The inbound delivery is created with reference to the purchase order.
2	Delivery date	Mandatory for delivery processing.

Best Buy Inbound Deliv 180001147 Display: Overview

Post Goods Receipt

Inbound deliv. 180001147 Document Date 2025.03.28
Supplier 100000399 BlueCore Solutions ASA, Forusbeen 50, 4035 Stavanger, Norway

Item Overview Shipment Unload Stock placement Status Overview Goods Movement Data

Delivery Date 2025.03.28 00:00 EET Total Weight 5,000 KG
Actual GR date 00:00 No. of Packages 12

Item	Material	Delivery Quantity	SU	Detail	Item Description	B.. ItCa	P V Batch	Supplier E
10	160000281	10,000	PC		Komputers Lenovo ThinkStation P330	ELN A		
900001	411300005	5,000	KG		I.Papiernie r kartonine vnrkt.(Dėže)	ZELP		

Figure 11. Inbound delivery overview. The purchased item and its package are copied from the purchase order.

Best Buy Inbound Deliv 180001147 Change: Overview

Post Goods Receipt

Inbound deliv. 180001147 Document Date 2025.03.28
Supplier 100000399 BlueCore Solutions ASA, Innovation Park 50, 4035 Stavanger, Norway

Item Overview Shipment Unload Stock placement Status Overview Goods Movement Data

Delivery Date 2025.03.28 00:00 EET Total Weight 5,000 KG
Actual GR date 00:00 No. of Packages 12

Item	Material	Delivery Quantity	SU	Detail	Item Description	B.. ItCa	P V Batch	Supplier E
10	160000281	10,000	PC		Komputers Lenovo ThinkStation P330	ELN A		
900001	411300005	5,000	KG		I.Papiernie r kartonine vnrkt.(Dėže)	ZELP		

Figure 12. Packing handling screen. Packaging proposals are visible and can be adjusted.

Pakavimui prieinamos medžiagos (1)

leškoti ir pasirinkti

Medžiaga pagal medžiagos tipą

Medžiagos tipas: ZPAK Medžiagos aprašas: Kalbos raktas: LT Medžiaga:

Pozicijos (0)

Figure 13. If a packaging material is missing, the user selects the packaging-material input area.

QS4(1)/100 Restrict Value Range

T: Material by Material Type V: Material by Supply Area W: Plant Mate...

Material Type ZPAK

Material description

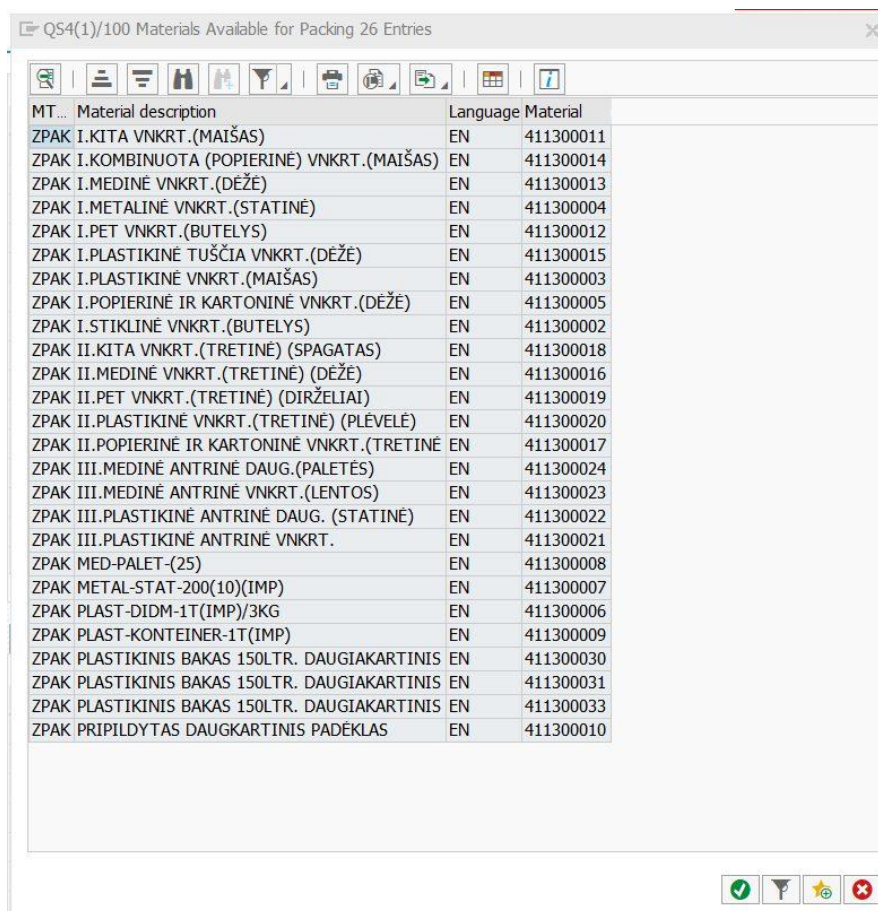
Language Key EN

Material

Restrict Number To 500 No Restriction

Figure 14. Packaging material value help. The user filters by material type ZPAK.

No.	Required field / user action	Purpose
1	Material type = ZPAK	Mandatory filter to restrict the selection list to GPAIS packaging materials.
2	Material description / material number	Search criteria used to find the missing package.



Material description	Language	Material
ZPAK I.KITA VNKRT.(MAIŠAS)	EN	411300011
ZPAK I.KOMBINUOTA (POPIERINĖ) VNKRT.(MAIŠAS)	EN	411300014
ZPAK I.MEDINĖ VNKRT.(DĖŽĖ)	EN	411300013
ZPAK I.METALINĖ VNKRT.(STATINĖ)	EN	411300004
ZPAK I.PET VNKRT.(BUTELYS)	EN	411300012
ZPAK I.PLASTIKINĖ TUŠČIA VNKRT.(DĖŽĖ)	EN	411300015
ZPAK I.PLASTIKINĖ VNKRT.(MAIŠAS)	EN	411300003
ZPAK I.POPIERINĖ IR KARTONINĖ VNKRT.(DĖŽĖ)	EN	411300005
ZPAK I.STIKLINĖ VNKRT.(BUTELYS)	EN	411300002
ZPAK II.KITA VNKRT.(TRETINĖ) (SPAGATAS)	EN	411300018
ZPAK II.MEDINĖ VNKRT.(TRETINĖ) (DĖŽĖ)	EN	411300016
ZPAK II.PET VNKRT.(TRETINĖ) (DIRŽELIAI)	EN	411300019
ZPAK II.PLASTIKINĖ VNKRT.(TRETINĖ) (PLĖVELĖ)	EN	411300020
ZPAK II.POPIERINĖ IR KARTONINĖ VNKRT.(TRETINĖ)	EN	411300017
ZPAK III.MEDINĖ ANTRINĖ DAUG.(PALETĖS)	EN	411300024
ZPAK III.MEDINĖ ANTRINĖ VNKRT.(LENTOS)	EN	411300023
ZPAK III.PLASTIKINĖ ANTRINĖ DAUG. (STATINĖ)	EN	411300022
ZPAK III.PLASTIKINĖ ANTRINĖ VNKRT.	EN	411300021
ZPAK MED-PALET-(25)	EN	411300008
ZPAK METAL-STAT-200(10)(IMP)	EN	411300007
ZPAK PLAST-DIDM-1T(IMP)/3KG	EN	411300006
ZPAK PLAST-KONTEINER-1T(IMP)	EN	411300009
ZPAK PLASTIKINIS BAKAS 150LTR. DAUGIAKARTINIS	EN	411300030
ZPAK PLASTIKINIS BAKAS 150LTR. DAUGIAKARTINIS	EN	411300031
ZPAK PLASTIKINIS BAKAS 150LTR. DAUGIAKARTINIS	EN	411300033
ZPAK PRIPILDYTAS DAUGKARTINIS PADĖKLAS	EN	411300010

Figure 15. Packaging material selection list. The user selects the required missing package.

Processing of Handling Units for Inbound Delivery 0180001147

Pack Material | Pack HUs | Packing Proposal | Single Entry | Total Content

All Existing HUs (Available for Packing)

Handling Unit	I. Packaging Materials	Total Weight	Loading Weight	All. Loading Wt
300000372	E 411300003	1,000		
300000362	E 411300005	32,000		
300000363	E 411300005	32,000		
300000364	E 411300005	32,000		
300000365	E 411300005	32,000		
300000366	E 411300005	32,000		
300000367	E 411300005	32,000		
300000368	E 411300005	32,000		
300000369	E 411300005	32,000		
300000370	E 411300005	32,000		
300000371	E 411300005	32,000		
300000396	E 411300020	1,000		
300025184	E 411300024	25,000		

per part. qty | per x HUs | if full | W/Vol | APM | gen.

Material to Be Packed

Material	Partial Qty	Total Quantity

Figure 16. Packing handling screen after adding packaging. The added packaging line is shown in the item list.

Best Buy Inbound Deliv 180001147 Change: Overview

Post Goods Receipt

Inbound delv. 180001147 Document Date 2025.03.28
Supplier 100000399 BlueCore Solutions ASA, Innovation Park 50, 4035 Stavanger, Norway

Item Overview | Shipment | Unload | Stock placement | Status Overview | Goods Movement Data

Delivery Date 2025.03.28 00:00 EET Total Weight 30,000 KG
Actual GR date 00:00 No. of Packages 13

All Items

Item	Material	Delivery Quantity	SU	Detail...	Item Description	B..	ItCa	P W	Batr
10	160000281	10,000	PC		Komputeris Lenovo ThinkStation P330		ELN	A	
900001	411300005	5,000	KG		I.Poiperine i kartongie vnkst.(Deže)		ZELP		
900002	411300024	1,000	PC		III.Medne antrine daug.(Paletes)		ZELP		

Figure 17. Inbound delivery overview after packaging update. The packaging material line is stored in the delivery.

Demo 4 - Run the GPAIS report and generate files

After master data and delivery data are available, the authorized GPAIS administrator runs transaction/program ZMM_GPAIS. The report reads data from Material Master Classification, Purchasing, Sales and Distribution, and Inventory Management. The user selects the reporting scope and output folder. The solution generates XML files and an error log.

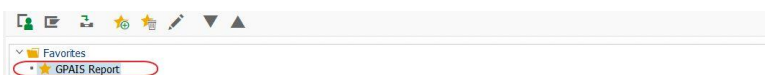
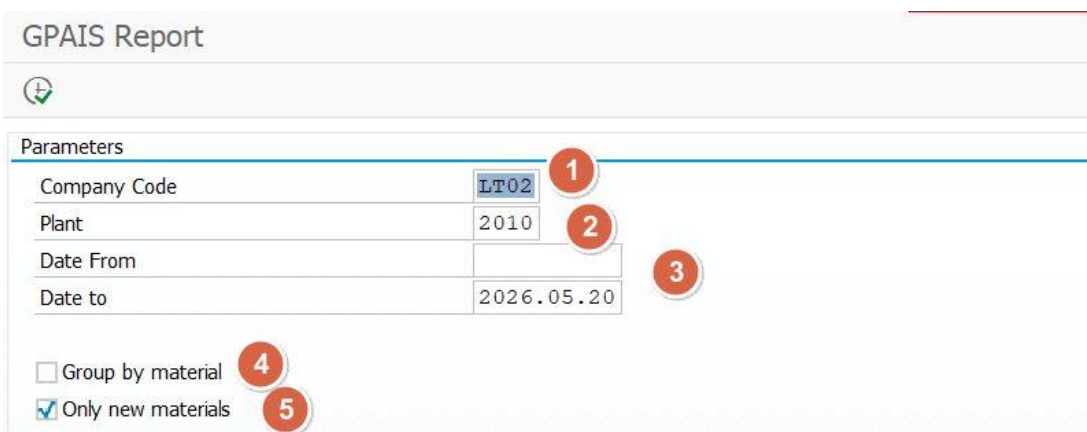


Figure 18. GPAIS Report application / transaction ZMM_GPAIS.



The screenshot shows the 'GPAIS Report' selection screen. It includes a 'Parameters' section with the following fields and options:

- Company Code:** LT02 (Callout 1)
- Plant:** 2010 (Callout 2)
- Date From:** (Callout 3)
- Date to:** 2026.05.20 (Callout 3)
- Group by material:** ☐ (Callout 4)
- Only new materials:** ☒ (Callout 5)

Figure 19. GPAIS Report selection screen. Numbered fields define the reporting scope and execution options.

No.	Required field / user action	Purpose
1	Company Code	Mandatory. Defines the legal entity for which GPAIS files are generated.
2	Plant	Optional. If left blank, all plants assigned to the company code are included.
3	Date From / Date To	Date To is mandatory. Date From is optional; if blank, the configured default start date is used.
4	Group by material	Optional. Select when journal entries must be summarized by material.
5	Only new materials	Optional. Select when the user wants to generate only new product/package master-data entries.
6	Execute / F8	Runs the report and starts file generation.

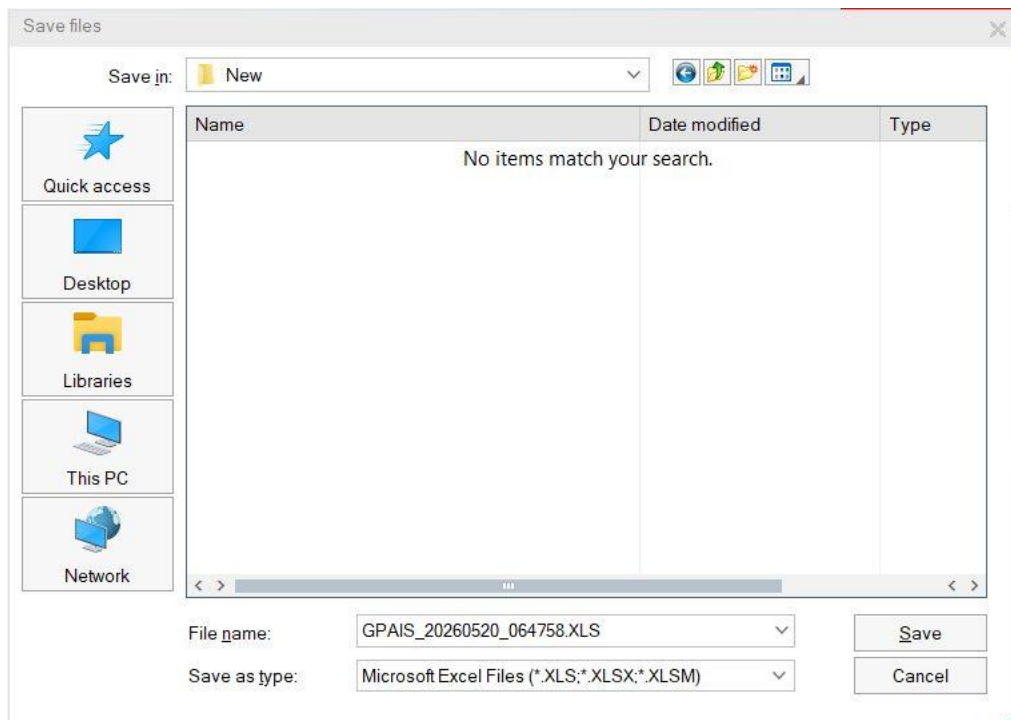


Figure 20. Save generated output files. The user selects the folder where XML and Excel outputs will be created.

No.	Required field / user action	Purpose
1	Output location	Mandatory. Select the local or network folder for generated files.
No.	File generated	Comment
2	Product list XML	File pattern: 2produktuSarasas_<company>_<plant>_<timestamp>.xml.
3	Period journal XML	File pattern: 3gpais-vvs-zurnalas_<company>_<plant>_<timestamp>.xml.
4	Error log	File pattern: Error_log_<timestamp>.xls. The user must review it before GPAIS upload.

Validate errors and upload to GPAIS

The report automatically validates mandatory GPAIS fields. If any mandatory field is missing, the affected records are written to the error file. The business user corrects the source issue in SAP and reruns the report until the message "No errors detected" is achieved. The authorized user then logs in to GPAIS through the Lithuanian e-government gateway and uploads the generated product list and journal files in the GPAIS VVS data import area.

No.	Required field / user action	Purpose
1	Review Error_log file	Confirms whether any mandatory GPAIS data is missing.
2	Correct SAP source data	Corrections are made in material master classification, delivery packing data or movement-related configuration depending on the error.
3	Regenerate files	The user reruns ZMM_GPAIS until no blocking errors remain.
4	Upload XML to GPAIS	The authorized user uploads the product list and journal XML files to GPAIS via the VVS interface.

Mandatory GPAIS data controlled by the solution

No.	Required field / user action	Purpose
1	Registration ID	Producer/importer registry identifier configured for the company code.
2	Start date of placing on the market	Date when the material/package first entered the market; default date can be used if no movement is found.
3	Product / trade item code	SAP material number, field MATNR.
4	Stream	Packaging stream, derived when the material has primary, secondary or tertiary packaging class/characteristic.
5	Unit weight, t	Mandatory package unit weight in tonnes, six decimals, maintained by package level.
6	End date of supply	Date when the product/package is no longer supplied, if applicable.
7	Document date	Material movement posting date, MATDOC-BUDAT.
8	Document number	Unique material movement document number.
9	Product / package name	Package name maintained in the package-name characteristic.
10	Method of receipt	Derived from GPAIS configuration table according to movement type, plant, country and package type.
11	Mode of operation	Derived from GPAIS configuration table according to movement type, plant, country and package type.