Datastore tables

Status: 2.24.3

General Notes

- Constraints not strictly required for correct database operation are omitted in the physical database, for example NOT NULL's. Such constraints are enforced by the application code.
- The BPS datastores are not designed for safe write by any non-BPS application or tool. While reading the BPS datastores is safe, writing is only allowed through the BPS applications and scripts. **Any other write access voids the warranty and support conditions.**
- Tables starting with `t_geko_` and `t_tako_` are interface tables for the GEKO and TAKO robots do not belong to the BPS core.
- Tables starting with `ct_` are custom tables and do not belong to the BPS core. Ask your system integrator for documentation of such tables.

Reference

t_actors

List of currently active (checked in) users.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_sessionid	number not null	Database session ID.
c_user	number(15) not null	References t_users.
c_terminal	varchar(35) not null	Name of the terminal.
c_application	varchar(4000)	Name of executable or script respectively.
c_timestamp	timestamp not null	Time stamp of last action.

t_allergens

Allergen names to be emphasized on packing labels.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_name	varchar(35) not null	Name of the allergen.

t_artattributes

Available article attributes.

Column	Type	Description
c_key	number(15) not null	Primary key of the table.
c_name	varchar(35) not null	Name of the attribute.

t_artfields

List of defined article fields.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_id	varchar(35) not null	ID of the article field (used as labeler placeholder ID for example).
c_name	varchar(35) not null	Descriptive name of the field.

t_articleattributes

Attributes assigned to distinct articles.

Column	Type	Description
c_article	number(15) not null	References t_articles.
c_attribute	number(15) not null	References t_artattributes.

t_articlebarcodes

Bar codes belonging to the articles.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_article	number(15) not null	Article key, references t_articles.
c_prio	number	Priority: Lower number are higher priorities. Barcodes with same priority are sorted by unit, type and code ascending. The topmost CU barcode is used for packing jobs.
c_unit	varchar(1) not null	C = for consumer units T = for traded units L = for logistic units
c_type	varchar(10) not null	See Barcode scanning.
c_code	varchar(4000)	Barcode data.

t_articleclasses

Article classification tree structure.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_parent	number(15)	Parent item. Root items are null.
c_name	varchar(35) not null	Name of the class element. May not contain any slash.

t_articlefields

Field data of articles.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_article	number(15) not null	References t_articles.
c_artfield	number(15) not null	References t_artfields.
c_data	varchar(4000)	Field data.

t_articlelabels

Labeler settings assigned to distinct articles for regular price.

Column	Type	Description
c_article	number(15) not null	References t_articles.
c_label	number(15) not null	References t_labels.

t_articleilabels

Labeler settings assigned to distinct articles for introduction price.

Column	Type	Description
c_article	number(15) not null	References t_articles.
c_label	number(15) not null	References t_labels.

t_articleparts

Article parts of a compound article.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_article	number(15) not null	Compound article, references t_articles.
c_part	number(15) not null	Part article, references t_articles.
c_quantity	number	Quantity of this part.
c_unit	varchar(1) not null	L = LU T = TU C = CU P = PU k = kilogram p = piece l = liter m = meter s = square meter c = cubic meter

Column	Type	Description
c_per	varchar(1) not null	L = LU T = TU C = CU P = PU k = kilogram p = piece l = liter m = meter s = square meter c = cubic meter

t_articlepictures

Pictures of the articles.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_article	number(15) not null	Article key, references t_articles.
c_prio	number	Priority: Lower number are higher priorities. The topmost picture is shown in certain picking applications.
c_type	varchar(10)	Data file type. Any types can be read and written by Qt, for example JPG, PNG, TIF, GIF, BMP. The used type can be limited in the validator c_type.formats, by default pictures are stored as PNG if the picture has alpha transparency, or JPG otherwise.
c_size	number not null	Size of the data file contents in bytes.
c_data	blob	Data file contents.

t_articleplabels

Labeler settings assigned to distinct articles for promotions.

Column	Type	Description
c_article	number(15) not null	References t_articles.
c_label	number(15) not null	References t_labels.

t_articleprices

Price history of an article.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_article	number(15) not null	Article key, references t_articles.
c_start	timestamp not null	Starting date/time when price gets in effect.
c_dpr	number not null	Dealer price.
c_cpr	number not null	Consumer price.

Column	Type	Description
c_code	varchar(1) not null	Price code: n = normal p = promotion i = introduction s = sellout

t_articleresources

Resources assigned to articles.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_article	number(15) not null	References t_articles.
c_resource	number(15) not null	References t_resources.
c_msecs	number	Machine seconds.
c_msecsper	varchar(1) not null	L = LU T = TU C = CU P = PU k = kilogram p = piece l = liter m = meter s = square meter c = cubic meter
c_psecs	number	Person seconds.
c_psecsper	varchar(1) not null	L = LU T = TU C = CU P = PU k = kilogram p = piece l = liter m = meter s = square meter c = cubic meter

t_articles

Articles list. Articles are organized in a tree structure, where columns with NULL value inherit the parents value.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_parent	number(15)	Parent item. Root items are null.
c_propagates	varchar(4000)	Comma separated list of columns and attributes table names propagated to children on changes.
c_collection	number(15) not null	References t_collections.
c_department	number(15) not null	References t_departments.
c_entryzone	number(15)	References t_zones.

Column	Type	Description
c_lotzone	number(15)	References t_zones.
c_packzone	number(15)	References t_zones.
c_id	varchar(35) not null	Article identifier (article number).
c_nid	varchar(35)	Needs identifier (for example Migros BoSS ID)
c_name	varchar(35) not null	Name of the article.
c_spokenname	varchar(35)	Spoken name for pick-by-voice applications. When left empty/null, lower(c_name) gets used for pick-by-voice instead.
c_status	varchar(1) not null	a = active l = locked d = marked for deletion.
c_collective	varchar(1) not null	y = collective article (separate ordercols when picking) n = individual article (combine ordercols when picking)
c_dispolist	varchar(1) not null	n = Not included in disposition lists y = Included in disposition lists
c_articleclass	number(15)	References t_articleclasses.
c_shipclass	number(15)	References t_shipclasses.
c_saleclass	number(15)	References t_saleclasses.
c_vat	number(15)	References t_vats.
c_origin	number(15)	References t_origins.
c_producer	number(15)	References t_producers.
c_method	number(15)	References t_methods.
c_trip	number(15)	Main delivery trip. References t_trips.
c_stock_unit	varchar(1) not null	Main stock unit: L = logistic unit T = traded unit C = consumer unit
c_stock_min	number	Reorder when available stock falls below this value.
c_stock_nom	number	Nominal available stock.
c_stock_mode	varchar(1) not null	Stock strategy mode: r = regular f = FIFO q = quick
c_lu	varchar(10)	Name/acronym of the logistic unit.
c_tu	varchar(10)	Name/acronym of the traded unit.
c_cu	varchar(10)	Name/acronym of the consumer unit.
c_pu	varchar(1) not null	Price base unit: p = piece k = kilogram l = liter m = meter s = square meter c = cubic meter
c_tu_lu	number not null	Factor traded units in one logistic unit.
c_cu_tu	number not null	Factor consumer units in one traded unit.
c_pu_cu	number not null	Factor price units in one consumer unit.
c_pcs_cu	number not null	Pieces in one consumer unit.
c_pcs_cu_min	number	Minimum pieces in one consumer unit.
c_pcs_cu_max	number	Maximum pieces in one consumer unit.

Column	Type	Description
c_kg_cu	number not null	Weight of one consumer unit.
c_kg_cu_min	number	Minimum weight of one consumer unit.
c_kg_cu_max	number	Maximum weight of one consumer unit.
c_cu_package	number(15)	Consumer unit package. References t_packages.
c_tu_package	number(15)	Traded unit package. References t_packages.
c_lu_package	number(15)	Logistic unit package. References t_packages.
c_plu	varchar(35)	Price Look-Up code, short article number for packing/labeling lines or check-out at vending points.
c_pickprio	number	Picking priority. Lower number are higher priorities. Articles with same priority are sorted by c_id, c_key ascending. A null value is interpreted as lowest possible priority.
c_packline	number	Packing line number.
c_packline2	number	Alternate packing line number.
c_packprio	number	Packing priority. Lower number are higher priorities. Articles with same priority are sorted by c_id, c_key ascending. A null value is interpreted as lowest possible priority.
c_selldays	number	Number of selling days, counted from production/labeling date.
c_expiredays	number	Expires this number days after selling days.
c_storagedays	number	# of storage days.
c_overdelivery	number	Number of remaining units in robot stocks, which can be overdelivered in case to empty down the stock. When more units are left at end of an order trip, no overdelivery happens at all and the units are kept for the next order trip.
c_hdlspeed	number not null	Allowed handling speed. -2 = very slow -1 = slow 0 = medium 1 = fast 2 = very fast
c_intakecode	varchar(1) not null	Intake registration code: c = count only w = count and weigh.
c_delivcode	varchar(1) not null	Delivery registration code: c = count only w = count and weigh.
c_pickremarks	varchar(4000)	Remarks shown when picking.
c_fps_lus	number	Free pickable stock expressed in logistic units. (Shadow column, read-only!).
c_fps_tus	number	Free pickable stock expressed in traded units. (Shadow column, read-only!).
c_fps_cus	number	Free pickable stock expressed in consumer units. (Shadow column, read-only!).

t_articleslabels

Labeler settings assigned to distinct articles for sellout price.

Column	Type	Description
c_article	number(15) not null	References t_articles.

Column	Type	Description
c_label	number(15) not null	References t_labels.

t_articletexts

Texts belonging to the articles, for consumer and buyer receipts or for goods labeling.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_article	number(15) not null	Article key, references t_articles.
c_language	number(15) nut null	Language key, references t_languages.
c_name	varchar(35) not null	Name of the article.
c_description	varchar(4000)	Description text.
c_title	varchar(4000)	Title for labels.
c_subtitle	varchar(4000)	Subtitle for labels.
c_ingredients	varchar(4000)	Ingredient texts for labels.
c_nutrition	varchar(4000)	Nutrition facts text for labels.

t_audits

Master audit table, holding audit entries for all tables serialized in sequence through the audit key.

For most cases it is more convenient to use the va_* views, where the audit records are joined to this table.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_user	varchar(128) not null	Database user name.
c_time	timestamp not null	Time stamp of the operation.
c_table	varchar(128) not null	Audited table. Find the field contents in the corresponding ta_* table.
c_op	varchar(1) not null	Operation performed: i = insert u = update d = delete E = auditing was enabled D = auditing was disabled

t_collections

Master table for collections of articles.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_name	varchar(35) not null	Name of the collection.

t_countries

Countries used by the application.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_code	varchar(2) not null	Two character country code as used in locales, for example: CH = Switzerland DE = Germany FR = France IT = Italy.
c_name	varchar(35) not null	Name of the country.

t_departmentgroups

Assignment of departments to groups.

Column	Type	Description
c_department	number(15) not null	References t_departments.
c_group	number(15) not null	References t_groups.

t_departments

Departments in the current datastore.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_id	varchar(35) not null	Unique identifier
c_name	varchar(35) not null	Name of the department

t_distkeys

List of distribution keys, used in proration application.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_name	varchar(80) not null	Name/description of the distribution key
c_data	clob	List of partners and quantities separated by semicolon and comma. For example `106,1;107,2;108,3` are the three partners with key 106, 107 and 108 with the quantities 1, 2 and 3.

t_epcqueue

EPC events queued for transmission to the parent EPCIS system.

Child records are created for DELETE actions only. If there are no child records for a DELETE action, the whole parent EPC is to be deleted instead of only some child EPS's.

Column	Type	Description	Parent	Child
c_key	number(15) not null	Primary key.	x	x
c_parent	number(15)	Parent item.		x
c_epc	number(15) not null	References t_epcs.	x	x

Column	Type	Description	Parent	Child
c_queued	timestamp not null	Timestamp of job queueing.	x	
c_action	varchar(1) not null	a = ADD d = DELETE o = OBSERVE	x	
c_bizstep	varchar(35) not null	Business step, for example `packing`, `picking`	x	
c_quantity	number not null	Quantity to delete.		x
c_uom	varchar(3)	Unit of measure for the quantity: NULL for count KGM, LTR, MTR etc for physical units.		x

t_epcs

The EPCIS repository.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_parent	number(15)	Parent item. Root items are null.
c_article	number(15)	References t_articles.
c_ordertrip	number(15)	References t_ordertrips.
c_batchkey	varchar(4000)	Combined data key defining the selection for the packing batch.

c_epc	varchar(50) not null	The EPC of this object. EPC's are stored with an abbreviated type prefix, for example:
		`grai:7613264.00307.100005001119`
		`sgtin:7610200.001257.0`
		`sscc:7617007.0123456789`

c_eventtime	timestamp not null	Date and time of EPC creation.
c_readpoint	varchar(35)	Reading point ID.
c_location	varchar(35)	Business location ID.
c_transactions	varchar(4000)	Semicolon separated list of order ID's (from t_orderrows.c_orderid).
c_quantity	number	Quantity of the object.
c_uom	varchar(3)	Unit of measure for the quantity: NULL for count KGM, LTR, MTR etc for physical units.
c_partneriln	varchar(35)	International/global location number (ILN/GLN) of partner. (M-EPCIS 1.0 only)
c_partnerid	varchar(35)	Partner ID. (M-EPCIS 1.0 only)
c_partnername	varchar(35)	Partner name. (M-EPCIS 1.0 only)
c_packline	number	Packing line number.
c_destzone	number	Number from assigned partner attribute starting with `zone...`.
c_orderid	varchar(35)	In case of packing this is the key of the first ordercol involved in the packing batch.
c_batchsize	number	# of units to be processed in current packing batch.
c_batchpos	number	Current progress position related to c_batchsize. Starts with 1.
c_deliverydate	number	Date/time of the order trip (planned delivery).

t_exceptiondays

Global and partner exception days.

The exception days superseed the trip schedule dates in several applications. Top level partners inherit the global exception days, and child partners inherit the exception days from parent.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_partner	number(15)	NULL for global exception days. References t_partners for partner exception days.
c_date	timestamp not null	Date of the exception day.
c_type	varchar(1) not null	Day type: r = rest day w = work day s = as scheduled (partner days only)

t_grouppermissions

Assignment of groups to application function permissions.

Column	Type	Description
c_group	number(15) not null	References t_groups.
c_permission	number(15) not null	References t_permissions.

t_groups

User groups, used for access control assignments.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_name	varchar(35) not null	Name of the group

t_keys

Used for temporary key sets.

Column	Type	Description
c_key	number(15) not null	Key in a key set. Part of primary key.
c_id	number(15) not null	ID of the key set. Part of primary key.
c_actor	number(15) not null	References t_actors.

t_labelers

Supported labeler types.

Column	Type	Description
c_key	number(15) not null	Primary key.

Column	Type	Description
c_id	varchar(35) not null	Labeler ID, for example `generic` or `lm2000`.
c_data	clob	Global data of the labaler type. For example global print objects and labels. Usually XML content.

t_labels

Labelerer settings, for example for a group of similar PLU's.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_labeler	number(15) not null	References t_labelers.
c_name	varchar(35) not null	Name of the settings set.
c_type	varchar(35)	Subtype of generic labelers.
c_data	clob	The settings data. For example PLU print objects and labels. Usually XML content.

t_languages

Languages used by the application.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_code	varchar(2) not null	Two character language code as used in locales, for example: de = German en = English fr = French it = Italian.
c_name	varchar(35) not null	Name of the language.

t_licenses

Utility table caching number of available license units.

Column	Type	Description
c_licenser	varchar(35) not null	Licenser name. Primary
c_licgroup	varchar(35) not null	Licens group name. Primary key.
c_limit	number not null	Number of licensed units. -1 = unlimited.

t_licensetokens

Currently in use license tokens.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_actor	number(15) not null	References t_actors.
c_licenser	varchar(35) not null	Licenser name. Primary key.
c_licgroup	varchar(35) not null	Licens group name. Primary key.

Column	Type	Description
c_program	varchar(35) not null	Application using the token.
c_timestamp	timestamp not null	Time stamp of last action

t_mergeclasses

Entities that may be mixed in a single logistic unit.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_parent	number(15)	Parent item. Root items are null.
c_name	varchar(35) not null	Name of the class element. May not contain any slash.
c_spokenname	varchar(35)	Spoken name for pick-by-voice applications. When left empty/null, lower(c_name) gets used for pick-by-voice instead.

t_methods

Production methods used for article packing.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_id	varchar(35)	ID of the production method, for example C.
c_name	varchar(35) not null	Name of the production method, for example `Conventional`.

t_methodtexts

Translation texts for the production method names.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_method	number(15) not null	References t_methods.
c_language	number(15) not null	References t_languages.
c_name	varchar(35) not null	Translated name of the production method, for example `Konventionell`.

t_newlogisticunits

Neu logistic units under construction (not yet completed logistic units).

Column	Type	Description
c_key	number(15) not null	Primary key.
c_ordertrip	number(15) not null	References t_ordertrips.
c_orderrow	number(15)	References t_orderrows. When null, the LU is for a non-collective partner and may hold items of multiple orderrows.
c_partner	number(15) not null	References t_partners.
c_zone	number(15) not null	References t_zones.
c_mergeclass	number(15) not null	References t_mergeclasses.

Column	Type	Description
c_actor	number(15)	References t_actors. Null when currently orphaned.
c_lastuser	number(15) not null	References t_users.
c_timestamp	timestamp not null	Time stamp of last action

For collective partners the LU is addressed by c_orderrow. For individual partners the LU is addressed by c_ordertrip and c_partner.

t_ordercollocks

Locks held on order columns.

Column	Type	Description
c_ordercol	number(15) not null	References t_ordercols.
c_actor	number(15) not null	References t_actors.

t_ordercols

Article orders within the order trips.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_ordertrip	number(15) not null	References t_ordertrips.
c_article	number(15) not null	References t_articles.
c_dpr	number	Dealer price.
c_cpr	number	Consumer price.
c_prcd	varchar(1) not null	Price code: n = normal p = promotion i = introduction s = sellout
c_ou	varchar(1) not null	Ordered unit: L = LU T = TU C = CU
c_tu_lu	number not null	Factor traded units in one logistic unit.
c_cu_tu	number not null	Factor consumer units in one traded unit.
c_pu_cu	number not null	Factor price units in one consumer unit.
c_selldays	number	Number of selling days, counted from production/labeling date.
c_expiredays	number	Expires this number days after selling days.
c_remarks	varchar(4000)	Order column remarks.
c_ordered	number not null	Total original order quantity in OU's. (Shadow sum from t_orderitems, read-only!)
c_planned	number not null	Total planned delivery quantitiy in OU's. (Shadow sum from t_orderitems, read-only!)
c_picked	number not null	Total picked order units. (Shadow sum from t_orderitems, read-only!)

Column	Type	Description
c_missing	number not null	Total yet missing order units. The value is approximately c_planned-c_picked, but my be greater in case items were overdelivered. (Shadow sum from t_orderitems, read-only!)
c_picks	number not null	Total number of picks. (Shadow sum from t_orderpicks, read-only!)
c_lus	number not null	Total picked expressed as logistic units. (Shadow sum from t_orderpicks, read-only!)
c_tus	number not null	Total picked expressed as traded units. (Shadow sum from t_orderpicks, read-only!)
c_cus	number not null	Total picked expressed as consumer units. (Shadow sum from t_orderpicks, read-only!)
c_pus	number not null	Total picked expressed as price units. (Shadow sum from t_orderpicks, read-only!)

t_orderitemlocks

Locks held on order items.

Column	Type	Description
c_orderitem	number(15) not null	References t_orderitems.
c_actor	number(15) not null	References t_actors.

t_orderitemrobots

Order item robot status record.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_ordertriprobot	number(15) not null	References t_ordertriprobots.
c_orderitem	number(15) not null	References t_orderitems.
c_mergeclass	number(15) not null	References t_mergeclasses.
c_base	number not null	Previously already picked quantity in OU, not to be picked by the robot.
c_planned	number not null	Quantitiy in OU the robot shall pick.
c_picked	number not null	Quantitiy in OU yet picked by robot.

The sum of c_base + c_planned equates to t_orderitems.c_planned

t_orderitems

Order items within the rows and columns.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_orderrow	number(15) not null	References t_orderrows.
c_ordercol	number(15) not null	References t_ordercols.

Column	Type	Description
c_orderid	varchar(35) not null	Customers item ID.
c_zone	number(15) not null	References t_zones.
c_mergeclass	number(15) not null	References t_mergeclasses.
c_ordered	number not null	Original order quantity in OU's.
c_planned	number not null	Planned delivery quantitiy in OU's.
c_remarks	varchar(4000)	Order item remarks.
c_originfo	varchar(4000)	Interface data of origin system.
c_picks	number not null	Total number of picks. (Shadow sum from t_orderpicks, read-only!)
c_delivered	number not null	Number of picks where c_delivery is not null. (Shadow sum from t_orderpicks, read-only!)
c_invoiced	number not null	Number of picks where c_invoice is not null. (Shadow sum from t_orderpicks, read-only!)
c_lus	number not null	Total picked expressed as logistic units. (Shadow sum from t_orderpicks, read-only!)
c_tus	number not null	Total picked expressed as traded units. (Shadow sum from t_orderpicks, read-only!)
c_cus	number not null	Total picked expressed as consumer units. (Shadow sum from t_orderpicks, read-only!)
c_pus	number not null	Total picked expressed as price units. (Shadow sum from t_orderpicks, read-only!)
c_ou	varchar(1) not null	Ordered unit: L = LU T = TU C = CU (Shadow from t_ordercols, read-only!)

t_orderpackages

Packages registered at order weighing.

Column	Type	Description
c_key	number(15) not null	Primary key
c_orderweighing	number(15) not null	References t_orderweighings
c_package	number(15) not null	References t_packages
c_quantity	number	# of packages

t_orderpicks

Order picks within the items. Usually 1 record = 1 LU.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_orderitem	number(15) not null	References t_orderitems.
c_stock	number(15)	References t_stock.
c_luid	number	Logistic unit ID of pick (null = unknown).
c_luid6	number	Lowest 6 digits of c_luid.

Column	Type	Description
c_packline	number	# of packing line (if applicable).
c_lus	number	# of whole logistic units.
c_tus	number	# of whole traded units not included in lus.
c_cus	number	# of whole consumer units not included in lus or tus.
c_pus	number not null	Total quantity of price units in all lus, tus and cus.
c_tu_lu	number not null	# of traded units in one logistic unit.
c_cu_tu	number not null	# of consumer units in one traded unit.
c_lotid	varchar(4000)	A comma separated list of lot ID's.
c_sscc	varchar(4000)	Reference ID of delivery container (SSCC).
c_grai	varchar(4000)	GRAI code of the pick container.
c_pickby	number(15) not null	Picking user. References t_users.
c_pickdate	timestamp not null	Date/time of picking.
c_delivery	number(15)	Delivery ID (null = not yet delivered).
c_delivby	number(15)	Delivering user. References t_users.
c_delivdate	timestamp not null	Date/time of delivery.
c_invoice	number(15)	Invoice ID (null = not yet invoiced).
c_invby	number(15)	Invoicing user. References t_users.
c_invdate	timestamp not null	Date/time of invoicing.

t_orderrowlocks

Locks held on order rows.

Column	Type	Description
c_orderrow	number(15) not null	References t_orderrows.
c_actor	number(15) not null	References t_actors.

t_orderrows

Partner orders within the order trips.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_ordertrip	number(15) not null	References t_ordertrips.
c_partner	number(15) not null	References t_partners.
c_orderby	number(15) not null	References t_users.
c_ordercd	varchar(1) not null	n = normal r = reorder a = assignment
c_orderid	varchar(35) not null	Customers order ID.
c_orderdate	timestamp not null	Date of (first) ordering.
c_remarks	varchar(4000)	Order row remarks.
c_origin	varchar(35)	Name of the origin system. NULL = BPS itself.
c_originfo	varchar(4000)	Interface data of origin system.
c_ordered	number not null	Total original order quantity in OU's. (Shadow sum from t_orderitems, read-only!)

Column	Type	Description
c_planned	number not null	Total planned delivery quantitiy in OU's. (Shadow sum from t_orderitems, read-only!)
c_picked	number not null	Total picked order units. (Shadow sum from t_orderitems, read-only!)
c_missing	number not null	Total yet missing order units. The value is approximately c_planned-c_picked, but my be greater in case items were overdelivered. (Shadow sum from t_orderitems, read-only!)
c_picks	number not null	Total number of picks. (Shadow sum from t_orderpicks, read-only!)
c_lus	number not null	Total picked expressed as logistic units. (Shadow sum from t_orderpicks, read-only!)
c_tus	number not null	Total picked expressed as traded units. (Shadow sum from t_orderpicks, read-only!)
c_cus	number not null	Total picked expressed as consumer units. (Shadow sum from t_orderpicks, read-only!)
c_pus	number not null	Total picked expressed as price units. (Shadow sum from t_orderpicks, read-only!)

t_ordertakinglistlocks

Locks set on order taking list partners.

When the status of the order taking list partner is `open`, there is no referencing record in this table.

Column	Type	Description
c_actor	varchar(35)	NULL when status is `completed`. References t_actors when status is `in work`.
c_ordertakinglistpnr	varchar(35) not null	References t_ordertakinglistpnrs.

t_ordertakinglistpnrs

Master data: partners belonging to a order taking list.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_ordertakinglist	varchar(35) not null	References t_ordertakinglists.
c_partner	varchar(35) not null	References t_partners.
c_calltime	number not null	Calling time as hours.minutes.

t_ordertakinglists

Master data: order taking list definitions.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_name	varchar(35) not null	Descriptive name of the list.
c_trip1	number(15)	NULL if trip 1 not used. References t_ordertrips if trip 1 used.

Column	Type	Description
c_mindays1	number not null	Minimum delivery time in days for trip 1. 0 = today, 1 = tomorrow etc.
c_fromstock1	varchar(1) not null	Use selling stock for trip 1: n = no y = yes
c_trip2	number(15)	NULL if trip 2 not used. References t_ordertrips if trip 2 used.
c_mindays2	number not null	Minimum delivery time in days for trip 2. 0 = today, 1 = tomorrow etc.
c_fromstock2	varchar(1) not null	Use selling stock for trip 2: n = no y = yes

t_ordertriprobots

Order trip robot status record.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_ordertrip	number(15) not null	References t_ordertrips.
c_zone	number(15) not null	References t_zones.
c_status	varchar(1) not null	u = unsent s = sent a = active f = finished

t_ordertrips

The trips for order delivery to buyers.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_status	varchar(1) not null	n = new, being created r = ready for working a = actively picking c = completed h= History, archived
c_date	timestamp not null	Date of trip departure.
c_trip	number(15) not nul	References t_trips.
c_remarks	varchar(4000)	Open trip remarks.

t_ordertriplocks

Locks held on open trips.

Column	Type	Description
c_ordertrip	number(15) not null	References t_ordertrips.
c_actor	number(15) not null	References t_actors.

t_orderweighings

Order weighing records.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_orderpick	number(15) not null	References t_orderpicks.
c_timestamp	timestamp not null	Date/time of weighing.
c_id	varchar(35)	ID info such as animal number, ear mark etc.
c_lus	number	# of whole logistic units.
c_tus	number	# of whole traded units not included in lus.
c_cus	number	# of whole consumer units not included in lus or tus.
c_net	number not null	Net weight in kg.
c_tare	number	Total tare in kg.
c_weighed	varchar(1)	n = Manual entry y = Weight from scales

t_origins

Origins used for article packing.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_id	varchar(35)	ID of the origin, for example CH.
c_name	varchar(35) not null	Name of the origin, for example Switzerland.
c_import	varchar(1)	Import flag for reporting: n = Native product from home country y = Imported from foreign country

t_origintexts

Translation texts for the origin names.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_origin	number(15) not null	References t_origins.
c_language	number(15) not null	References t_languages.
c_name	varchar(35) not null	Translated name of the origin, for example Svizzera.

t_packageattributes

Attributes assigned to distinct packages.

Column	Type	Description
c_package	number(15) not null	References t_packages.
c_attribute	number(15) not null	References t_pkgattributes.

t_packages

Package records (bins, barrels, boxes, pallets etc.).

The factors packages per layer, and layers per container refer to the regular container of the package, which is a palette in most applicationa.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_id	varchar(35) not null	Unique identifier.
c_name	varchar(35) not null	Name of the package.
c_weight	number not null	Weight in kilogram.
c_width	number not null	Width (shorter side) in meters.
c_length	number not null	Length (longer side) in meters.
c_height	number not null	Total height in meters.
c_socket	number not null	Socket height in meters. When stacking, the socket of the upper bin sinks into the lower bin, so the total stack height is n * height - (n-1) * socket.
c_pkg_lyr_in	number not null	Packages per layer inbound e.g. when receiving from suppliers or manufacturers.
c_lyr_ctr_in	number not null	Layers per container inbound e.g. when receiving from suppliers or manufacturers.
c_pkg_lyr_out	number not null	Packages per layer outbound e.g. when delivering to customers or branches.
c_lyr_ctr_out	number not null	Layers per container inbound e.g. when receiving to customers or branches.
c_press	number not null	Allowed pressing force. -2 = very low -1 = low 0 = medium 1 = high 2 = very high
c_labeltype	varchar(1) not null	null, = do not print any label A, B, C = label type to print

t_packagezones

Picking zone assignments to report configurations.

Column	Type	Description
c_package	number(15) not null	References t_packages.
c_zone	number(15) not null	References t_zones.

t_packjoblocks

Locks held on packing jobs.

Column	Type	Description
c_packjob	number(15) not null	References t_packjobs.
c_actor	number(15) not null	References t_actors.
c_exclusive	varchar(1) not null	Lock is exclusive: n = no, y = yes

t_packjobs

Packing jobs within the packing production.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_packprod	number(15) not null	References t_packprods.
c_article	number(15) not null	References t_articles.
c_cpr	number	Consumer price.
c_prcd	varchar(1) not null	Price code: n = normal p = promotion i = introduction s = sellout
c_packunit	varchar(1) not null	Packed unit: L = LU T = TU C = CU
c_tu_lu	number not null	Factor traded units in one logistic unit.
c_cu_tu	number not null	Factor consumer units in one traded unit.
c_pu_cu	number not null	Factor price units in one consumer unit.
c_quantity	number	Total units to pack
c_selldays	number	Number of selling days, counted from production/labeling date.
c_expiredays	number	Expires this number days after selling days.
c_remarks	varchar(4000)	Packing job remarks.
c_recs	number not null	Total number of packrecs. (Shadow sum from t_packrecs, read-only!)
c_lus	number not null	Total packed expressed as logistic units. (Shadow sum from t_packrecs, read-only!)
c_tus	number not null	Total packed expressed as traded units. (Shadow sum from t_packrecs, read-only!)
c_cus	number not null	Total packed expressed as consumer units. (Shadow sum from t_packrecs, read-only!)
c_pus	number not null	Total packed expressed as price units. (Shadow sum from t_packrecs, read-only!)

t_packprodlocks

Locks held on pack productions.

Column	Type	Description
c_packprod	number(15) not null	References t_packprods.
c_actor	number(15) not null	References t_actors.

t_packprods

Packing production master data.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_status	varchar(1) not null	n = new, being created r = ready for working a = actively picking c = completed h= history, archived
c_date	timestamp not null	Date of production.
c_prod	number(15) not nul	References t_prods.
c_remarks	varchar(4000)	Pack production remarks.
c_settings	clob	Settings used when generating the pack production.

t_packrecs

Packing records within the packing job.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_packjob	number(15) not null	References t_packjobs.
c_stock	number(15)	References t_stock.
c_origin	number(15)	References t_origins.
c_producer	number(15)	References t_producers.
c_method	number(15)	References t_methods.
c_packline	number	Packing line number.
c_lotid	varchar(4000)	Comma separated list of lot ID's.
c_grai	varchar(4000)	GRAI code of the packed container.
c_lus	number	# of whole logistic units.
c_tus	number	# of whole traded units not included in lus.
c_cus	number	# of whole consumer units not included in lus or tus.
c_pus	number not null	Total quantity of price units in all lus, tus and cus.
c_tu_lu	number not null	# of traded units in one logistic unit.
c_cu_tu	number not null	# of consumer units in one traded unit.
c_packby	number(15) not null	Packing user. References t_users.
c_packdate	timestamp not null	Date/time of packing.
c_sentby	number(15)	User sending the record to host system. References t_users.
c_sentdate	timestamp not null	Date/time of sending to host system.

t_partnerattributes

Attributes assigned to distinct partners.

Column	Type	Description
c_partner	number(15) not null	References t_partners.
c_attribute	number(15) not null	References t_pnrattributes.

t_partnerclasses

Partner classification tree structure.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_parent	number(15)	Parent item. Root items are null.
c_name	varchar(35) not null	Name of the class element. May not contain any slash.

t_partnerdepartments

Departments assigned to distinct partners.

Column	Type	Description
c_partner	number(15) not null	References t_partners.
c_department	number(15) not null	References t_departments.

t_partners

Partners list.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_parent	number(15)	Parent item. Root items are null.
c_propagates	varchar(4000)	Comma separated list of columns and attributes table names propagated to children on changes.
c_id	varchar(35) not null	Unique internal identifier: „partner number“
c_shortid	varchar(35)	Short partner ID to be used for certain applications (for example pick-by-voice). When left empty/null, c_id gets used instead.
c_checkdigs	varchar(35)	Checkdigits to be used for pick-by-voice applications for example.
c_iln	varchar(35) not null	International/global location number (ILN/GLN) for particimation in electronic data interchange (EDI).
c_name	varchar(35) not null	Name of the partner. (Internal)
c_spokenname	varchar(35)	Spoken name for pick-by-voice applications. When left empty/null, lower(c_name) gets used for pick-by-voice instead.
c_collective	varchar(1) not null	y = collective partner (separate orderrows when picking) n = individual partner (combine orderrows when picking)
c_status	varchar(1) not null	a = active l = locked d = marked for deletion.
c_partnerclass	number(15)	References t_partnerclasses.
c_salechannel	number(15)	References t_salechannels.
c_closeprio	number	Closure priority. Lower number are higher priorities. Partners with same priority are sorted by c_client, c_ident, c_key ascending. A null value is interpreted as lowest possible priority.
c_barcodetype	varchar(10)	See Barcode scanning.
c_barcode	varchar(4000)	Barcode data for partner.
c_labeltext	varchar(4000)	Text to print on labels.

Column	Type	Description
c_icon	blob	Icon data file contents.
c_address	varchar(4000)	Address (delivery).
c_zipcode	varchar(35)	ZIP code.
c_city	varchar(35)	City
c_country	number(15) not null	References t_countries.
c_language	number(15) not null	Billing Language, references t_languages.
c_labellang1	number(15)	First article labeling language, references t_languages.
c_labellang2	number(15)	Second article labeling language, references t_languages.
c_labellang3	number(15)	Third article labeling language, references t_languages.
c_phone	varchar(35)	Phone number.
c_fax	varchar(35)	Telefax number.
c_email	varchar(35)	Email address.
c_billmode	varchar(1) not null	Billing mode: l = when logistic unit is complete t = at trip closure d = daily w = weekly m = monthly c = custom period.
c_debtorid	varchar(35)	Debtor ID, referencing billing application.
c_vatregno	number	Value added tax registration number.
c_pricecode	varchar(1) not null	Price code for billing: d = dealer price c = consumer price
c_detaildisc	number	Detail position discount, in percent.
c_invoicedisc	number	Invoice total discount, in percent.
c_refund	number	Periodic refund in percent.
c_postagecode	varchar(1) not null	n = none k = per kg d = per delivery
c_postage	number	Postage amount.
c_invoiceto	varchar(1) not null	t = this partner p = this partners parent i = c_invoicepartner
c_invoicecopies	number(i)	Number of printed invoice copies.
c_invoiceparther	number(15)	Bill to this partner when c_invoiceto = i. References t_partners.
c_reportto	varchar(1) not null	t = this partner p = this partners parent r = c_reportpartner
c_reportcopies	number(i)	Number of printed report copies.
c_reportpartner	number(15)	Report to this partner when c_reportto = i. References t_partners.
c_collection	number(15)	Article collection available to this partner. References t_collections.
c_embarkpoint	varchar(35)	Embark point for this partner.
c_conveyance	varchar(35)	Internal conveyance route.
c_pickremarks	varchar(4000)	Remarks shown when picking.

t_permissions

List of application function permissions.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_name	varchar(35) not null	Name of the permission

t_pickmatrix

Assignment of picking zone and merge class to trip-, article- and partnerclasses.

Column	Type	Description
c_tripclass	number(15)	References t_tripclasses. Valid for any trip when null.
c_articleclass	number(15)	References t_articleclasses. Valid for any articleclass when null.
c_partnerclass	number(15)	References t_partnerclasses. Valid for any partnerclass when null.
c_zone	number(15) not null	Reference to t_zones.
c_mergeclass	number(15) not null	Reference to t_mergeclasses.

t_pkgattributes

Available package attributes.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_name	varchar(35) not null	Name of the attribute.

t_pnrattributes

Available partner attributes.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_name	varchar(35) not null	Name of the attribute.

t_prodclasses

Production class tree structure.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_parent	number(15)	Parent item. Root items are null.
c_name	varchar(35) not null	Name of the class element. May not contain any slash.

t_prodgroups

Assignment of users to zones.

Column	Type	Description
c_prod	number(15) not null	References t_prods.
c_group	number(15) not null	References t_groups.

t_producers

Producers used for article packing.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_id	varchar(35) not null	ID of the producer, for example 125.
c_name	varchar(35) not null	Name of the producer, for example `RODI Fructus`.

t_prods

Productions master data.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_id	varchar(35) not null	ID of the production, for example P01.
c_name	varchar(35) not null	Name of the production, for example `Vegetable packing`.
c_initstatus	varchar(1) not null	Initial status: n = New r = Ready a = Active
c_prodclass	number(15) not null	References t_prodclasses.
c_fgcolor	varchar(35) not null	Foreground color name.
c_bgcolor	varchar(35) not null	Background color name.
c_schedule	varchar(350) not null	Schedule times in CRON syntax.

t_purchasedeliveries

Purchase order item delivery records.

Depending on the timestamps the status of the delivery is considered as:

- *Shipped* when c_shipdate is not null
- *Arrived* when c_arrivaldate is not null
- *Entered* when c_entrydate is not null
- *Cleared* when c_clearingdate is not null

Column	Type	Description
c_key	number(15) not null	Primary key.
c_purchaseitem	number(15) not null	References t_purchaseitems.
c_blocked	varchar(1) not null	Delivery blocked: n = no y = yes

Column	Type	Description
c_shipdate	timestamp	Date/time of shipping
c_deliverydate	timestamp	Estimated delivery date
c_deliveryid	varchar(35)	Delivery ID (to be found on the receipt.)
c_arrivaldate	timestamp	Arrival date/time
c_arrivalby	number(15)	User accepting the arrival. References t_users.
c_entrydate	timestamp	Date/time of entry processing.
c_entryby	number(15)	User processing the entry. References t_users.
c_clearing	number	Batch run id of clearing processing/transmission. Created by sequence s_clearings.
c_clearingdate	timestamp	Date/time of clearing processing.
c_clearingby	number(15)	User processing the clearing. References t_users.
c_carrier	varchar(100)	Final carrier and/or vehicle bringing the delivery.
c_sscc	varchar(4000)	Comma separated list of SSCC's involved (usually one per hierarchical level).
c_lotid	varchar(4000)	Comma separated list of lot ID's.
c_tu_lu	number not null	Factor traded units in one logistic unit.
c_cu_tu	number not null	Factor consumer units in one traded unit.
c_lus	number	# of whole logistic units.
c_tus	number	# of whole traded units not included in lus.
c_cus	number	# of whole consumer units not included in lus or tus.
c_pus	number not null	Total quantity of price units in all lus, tus and cus.
c_deduction	number	Deduction in price units (delivered, but not accepted PU's).
c_retention	number	Retention in percent.
c_remarks	varchar(4000)	Remarks text.
c_stock	number(15)	Stock the entry was made to. References t_stock.

t_purchaseitemlocks

Locks held on purchase items.

Column	Type	Description
c_purchaseitem	number(15) not null	References t_purchaseitems.
c_actor	number(15) not null	References t_actors.

t_purchaseitems

Purchase order item records.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_purchaseorder	number(15) not null	References t_purchaseorders.
c_status	varchar(1) not null	Status: o = open c = completed
c_itemid	varchar(35)	Own item ID.
c_selleriid	varchar(35)	The sellers item ID.

Column	Type	Description
c_distributoriid	varchar(35)	The distributors item ID.
c_article	number(15) not null	References t_articles.
c_prcd	varchar(1) not null	Price code for labeling: n = normal p = promotion i = introduction s = sellout
c_cpr	number	Consumer price for labeling.
c_bpr	number	Buying price per PU.
c_ordered	number not null	Original order quantity in OU's.
c_confirmed	number	Confirmed quantity in OU's.
c_confirmdate	timestamp	Date/time of confirmation.
c_ou	varchar(1) not null	Order unit: L = LU T = TU C = CU P = PU
c_pu	varchar(1) not null	Price unit: p = piece k = kilogram l = liter m = meter s = square meter c = cubic meter
c_tu_lu	number not null	Factor traded units in one logistic unit.
c_cu_tu	number not null	Factor consumer units in one traded unit.
c_pu_cu	number not null	Factor price units in one consumer unit.
c_remarks	varchar(4000)	Remarks text.
c_originfo	varchar(4000)	Interface data of origin system.

t_purchaseorderlocks

Locks held on purchase orders.

Column	Type	Description
c_purchaseorder	number(15) not null	References t_purchaseorders.
c_actor	number(15) not null	References t_actors.

t_purchaseorders

Purchase order records.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_zone	number(15) not null	References t_zones.

Column	Type	Description
c_status	varchar(1) not null	Status: n = new, being created r = ready for working a = active, can be processed in entry zone c = entry completed ok h= history (cleared and archived)
c_orderid	varchar(35)	Our own order ID.
c_deliverydate	timestamp not null	Target delivery date/time.
c_seller	number(15) not null	Selling partner, references t_partners.
c_selleroid	varchar(35)	Sellers order ID.
c_sellerom	varchar(1) not null	Seller order mode: n = none (not yet known) p = phone call f = fax e = e-mail o= online, EDI
c_selleros	varchar(1) not null	Seller order transmission status (fax/email/EDI): u = unsent t = transmission enabled s = sent
c_sellerod	timestamp	Seller ordering date/time.
c_distributor	number(15)	Distributor partner, references t_partners.
c_distributoroid	varchar(35)	Distributors order ID.
c_distributorom	varchar(1) not null	Distributor order mode: n = none p = phone call f = fax e = e-mail o= online, EDI
c_distributoros	varchar(1) not null	Distributor order transmission status (fax/email/EDI): u = unsent t = transmission enabled s = sent
c_distributorod	timestamp	Distributor ordering date/time.
c_remarks	varchar(4000)	Remarks text.
c_origin	varchar(35)	Name of the origin system. NULL = BPS itself.
c_originfo	varchar(4000)	Interface data of origin system.
c_createby	number(15)	User ID of the purchaser or record creator. References t_users.
c_createdate	timestamp not null	Record creation date/time.
c_printby	number(15)	User ID who printed the job in the goods entry program. References t_users.
c_printdate	timestamp	Job printing date/time. Null = not yet printed.

t_purchasepackages

Packages registered at purchase order weighing.

Column	Type	Description
c_key	number(15) not null	Primary key

Column	Type	Description
c_purchaseweighing	number(15) not null	References t_purchaseweighings
c_package	number(15) not null	References t_packages
c_quantity	number	# of packages

t_purchaseweighings

Purchase order weighing records.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_purchasedelivery	number(15) not null	References t_purchasedeliveries.
c_timestamp	timestamp not null	Date/time of weighing.
c_id	varchar(35)	ID info such as animal number, ear mark etc.
c_lus	number	# of whole logistic units.
c_tus	number	# of whole traded units not included in lus.
c_cus	number	# of whole consumer units not included in lus or tus.
c_net	number not null	Net weight in kg.
c_tare	number	Total tare in kg.
c_deduction	number	Deduction in percent of net weight
c_weighed	varchar(1)	n = Manual entry y = Weight from scales
c_quality	varchar(35)	Quality codes and remarks
c_temp	varchar(4000)	Comma separated list of temperatures measured.
c_ph	varchar(4000)	Comma separated list of pH values measured.

t_remarks

Remark lists.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_id	varchar(35) not null	ID of the remarks.
c_remarks	varchar(4000)	Remarks text.
c_user	number(15)	The user ID for private settings, or NULL for public settings. References t_users.
c_application	varchar(35) not null	Application or list identifier. All records with same c_application belong to one list.

t_reportaccess

Access rights of groups on reports.

Column	Type	Description
c_group	number(15) not null	References t_groups.
c_report	number(15) not null	References t_reports.

Column	Type	Description
c_access	number(1) not null	0 = no access (*) 1 = read only 2 = read and write (*) Same when no record exists for a certain group/record

t_reportconfigs

Report configurations for spooler.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_id	varchar(35) not null	Printer number or other config ID.
c_name	varchar(35) not null	Descriptive name.
c_type	varchar(35) not null	Report type identifier, see table below
c_report	number(15) not null	References t_reports.
c_title	varchar(35) not null	Customized report title.

Current report types:

Type	Application
LU label	Logistic unit label
TU label	Traded unit label
CU label	Consumer unit label
Stock label	Stock label
Entry weight label	Single weight label at entry
Entry receipt	Purchase delivery receipt at entry

t_reportqueue

Reports queued to get printed by the spooler.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_reportconfig	number(15) not null	Report configuration, references t_reportconfigs.
c_selections	clob	Table selections: Each line holds a selection in the form „name:key,key,key,...“. The selections are accessable within the report script as elements of object `report.selections`. Check the availability for example as `if (report.selections) ...`.
c_data	clob	ECMAScript compliant report data. See examples below. The data is accessable within the report script as object `report.data`. Check the availability for example as `if (report.data) ...`.
c_submitter	varchar(50) not null	Submitter information: user-mnemonic@terminal.

Column	Type	Description
c_queued	timestamp not null	Time stamp when the job was queued by the submitter.
c_status	varchar(1) not null	a = active s = suspended
c_message	varchar(4000)	Message when job was suspended.

Examples for data

Single values:

```
123
```

```
'bar'
```

Array of objects:

```
[
  { foo: 'text a', bar: 123 },
  { foo: 'text b', bar: 234 }
]
```

A single object:

```
({
    foo: 'footext',
    bar: 123,
    tsp: new Date(2011,3,11,10,47,5,325)
})
```

Note that the single object needs to be enclosed in parentheses, because otherwise javascript will mistake the opening curly bracket as block opening, instead of object literal.

See also Report Reference

t_reportzones

Picking zone assignments to report configurations.

Column	Type	Description
c_reportconfig	number(15) not null	References t_reportconfigs.
c_zone	number(15) not null	References t_zones.

t_reports

Central report inventory.

Column	Type	Description
c_key	number(15) not null	Primary key.

Column	Type	Description
c_parent	number(15)	Parent item. Root items are null.
c_owner	number(15)	Report owner (designer). References t_users.
c_name	varchar(35) not null	Report or folder name, may not contain any slashes /
c_type	varchar(1) not null	'f' = folder, 'r' = report
c_data	clob	The report as XML.

t_reportsettings

User settings on reports.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_report	number(15) not null	References t_reports.
c_title	varchar(35) not null	Customized report title.
c_user	number(15)	The user ID for private settings, or NULL for public settings. References t_users.
c_application	varchar(35) not null	Name of the application this settings are for.

t_resources

User settings on reports.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_id	varchar(35) not null	Resource ID.
c_name	varchar(35) not null	Resource descriptive name.
c_packline	number	Associated packing line number.
c_prodlist	varchar(1) not null	n = Not included in production lists y = Included in production lists

t_robotlocks

Locks held on order items.

Column	Type	Description
c_zone	number(15) not null	References t_zones.
c_actor	number(15) not null	References t_actors.

t_salechannels

Sale/distribution channels to be assigned to partners.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_parent	number(15)	Parent item. Root items are null.
c_name	varchar(35) not null	Name of the class element. May not contain any slash.

t_saleclasses

Sale classes to be assigned to articles (for example in Migros: BoSS).

Column	Type	Description
c_key	number(15) not null	Primary key.
c_parent	number(15)	Parent item. Root items are null.
c_name	varchar(35) not null	Name of the class element. May not contain any slash.

t_sellstockreservations

Reservations for selling stock.

The records hold not only true reservations, but is also used as temporary memory of the order quantities and remarks entered while in the working page of the order take by list application. Whether the amounts of c_quantity1 or c_quantity2 are included in c_reserved depends if trip 1 or trip 2 are defined to use the selling stock in t_ordertakinglists.

Column	Type	Description
c_actor	number(15) not null	References t_actors.
c_article	number(15) not null	References t_articles.
c_quantity1	number	Quantity for trip 1.
c_quantity2	number	Quantity for trip 2.
c_remarks	varchar(4000)	Item remarks.
c_sellstock	number	New sell stock immediately after reservation (for display only)
c_reserved	number	Reserved quantity

t_sellstocks

Selling stock per article, used by the order taking by list application.

Column	Type	Description
c_article	number(15) not null	References t_articles.
c_stock	number not null	Stock quantity in articles main stock units. See c_stock_unit in t_articles.

t_settings

Stores central user and system settings.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_parent	number(15)	Parent item. Root items are null.
c_user	number(15)	User key, or null if a system setting. References t_users.
c_name	varchar(35) not null	Group or key name, may not contain any slashes /
c_type	varchar(1) not null	'g' = group, 'k' = value key
c_value	varchar(4000)	The value associated to the key.

t_shipclasses

Shipping class tree structure.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_parent	number(15)	Parent item. Root items are null.
c_name	varchar(35) not null	Name of the class element. May not contain any slash.

t_stkattributes

Available stock attributes.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_name	varchar(35) not null	Name of the attribute.

t_stock

Stock content data.

Note that c_lus, c_tus, c_cus and c_pus represent the quantity in the respective unit. To get the total stock quantity all values must be taken into account, for example to calculate the total stock in PU's:

```
tot_pus = ((c_lus*c_tu_lu+c_tus)*c_cu_tu+c_cus)*c_pu_cu+c_pus
```

Column	Type	Description
c_key	number(15) not null	Primary key.
c_article	number(15) not null	References t_articles.
c_stocklocation	number(15) not null	References t_stocklocations.
c_stockreason	number(15) not null	References t_stockreasons.
c_prio	number not null	Priority for picking: Lower number are higher priorities. Stocks with same priority are sorted by key ascending.
c_status	varchar(1) not null	'f' = free, 'r' = reserved, 'q' = quality, 'l' = locked
c_type	varchar(1) not null	'p' = physical, 'v' = virtual
c_indate	timestamp	Date and time of entry.
c_expdate	timestamp	Expire date.
c_cpr	number	Consumer price for price marked articles.
c_lotid	varchar(35)	LOT identifier.
c_lus	number not null	# of logistic units on stock.
c_tus	number not null	# of traded units on stock.
c_cus	number not null	# of consumer units on stock.
c_tu_lu	number not null	# of traded units in one logistic unit.
c_cu_tu	number not null	# of consumer units in one traded unit.
c_pu_cu	number not null	# of price units in one consumer unit.
c_zone	number(15) not null	References t_zones. (Shadow from t_stocklocations, read-only!)

Column	Type	Description
c_loc_status	varchar(1) not null	o = open (stockpiling and drawing) s = stockpiling only d = drawing only c = closed (no stockpiling, no drawing). (Shadow from t_stocklocations, read-only!)

t_stockattributes

Attributes assigned to distinct stock locations.

Column	Type	Description
c_stocklocation	number(15) not null	References t_stocklocations.
c_attribute	number(15) not null	References t_stkattributes.

t_stocklocations

Stock locations tree structure.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_parent	number(15)	Parent item. Root items are null.
c_propagates	varchar(4000)	Comma separated list of columns and attributes table names propagated to children on changes.
c_zone	number(15) not null	References t_zones.
c_id	varchar(35) not null	Unique identifier.
c_status	varchar(1) not null	o = open (stockpiling and drawing) s = stockpiling only d = drawing only c = closed (no stockpiling, no drawing).
c_counted	timestamp not null	Time of last coiunting. Only relevant if c_counter is not null.
c_counter	number(15)	Who did last counting. References t_users.

t_stockreasons

Stock change reasons.

The „manual“ change types are presented to the users when they do pure stock operations. There may be any number of change reasons with same manual type.

All other types are bound to specific application functions doing automatic stock operations. Of each of those types, there should be exactly one if that particular automatic operation shall be able to run. In case there are more than one of those types, the application will order them by c_id, c_key and use the first of that order.

plus change = applicable when the total quantity of PU on stock is increased
minus change = applicable when the total quantity of PU on stock is decreased
no change = applicable when the total quantity of PU on stock stays equal

Column	Type	Description
c_key	number(15) not null	Primary key.
c_id	varchar(35) not null	ID of the change reason, for example for reporting to upper chain systems.
c_name	varchar(35) not null	Name/text of the changing reason.
c_type	varchar(1) not null	Type of operation, see below

Change type codes:

'm' = any manual change plus, minus or no change.
'm+' = manual change plus only
'm-' = manual change minus only
'g+' = general storage
'g-' = general withdraw
'i+' = supply intake
'i-' = supply return
'p+' = pick return
'p-' = pick take
's0' = stocktaking ok confirmation
's+' = stocktaking plus correction
's-' = stocktaking minus correction
'a' = automatic sync

t_stockreservations

Temporary stock reservations applied during picking.

When the actor terminates the session, his records get automatically deleted.

Column	Type	Description
c_orderitem	number(15) not null	References t_orderitems.
c_stock	number(15) not null	References t_stock.
c_actor	number(15) not null	References t_actors.
c_lus	number not null	Number of logical units reserved.
c_tus	number not null	Number of traded units reserved.
c_cus	number not null	Number of consumer units reserved.

t_tripclasses

Trip class tree structure.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_parent	number(15)	Parent item. Root items are null.
c_name	varchar(35) not null	Name of the class element. May not contain any slash.

t_tripgroups

Groups enabled for trips.

Column	Type	Description
c_trip	number(15) not null	References t_trips.
c_group	number(15) not null	References t_groups.

t_trippartners

Partners settings per trip.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_trip	number(15) not null	References t_trips.
c_partner	number(15) not null	References t_partners.
c_prio	number	Picking priority. Lower number are higher priorities. Partners with same priority are ordered by c_partner ascending. A null value is interpreted as lowest possible priority.
c_htime	number not null	Handover time in hours.minutes. At this time the order picking should be finished.
c_restmode	varchar(1) not null	How to handle non full LU's for the partner by robots: n = no further picking. m = manually continue picking to fill up the LU.

t_trips

Trips master data.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_id	varchar(35) not null	Unique identifier.
c_name	varchar(35) not null	Descriptive name.
c_spokenname	varchar(35)	Spoken name for pick-by-voice applications. When left empty/null, lower(c_name) gets used for pick-by-voice instead.
c_adhocpicking	varchar(1) not null	n = ad hoc picking disallowed y = ad hoc picking allowed.
c_initstatus	varchar(1) not null	Initial status for new orders. Set by order desk application or import scripts when the order creation process is finished. n = new, being created r = ready for working a = actively picking
c_carriertrip	varchar(35) not null	Carriers trip name.
c_tripclass	number(15) not null	Class, references t_tripclasses.
c_fgcolor	varchar(35) not null	Foreground color name.
c_bgcolor	varchar(35) not null	Background color name.
c_schedule	varchar(350) not null	Schedule times in CRON syntax.

Column	Type	Description
c_ptime	number not null	Preload time in hours.minutes. How much the picking should be finished in advance of the trips schedule time.
c_fillgrade	number not null	Percentage of actual filling of a logistic unit, to handle the unit as „full“.
c_robotmode	varchar(1) not null	Robot working mode. o = order waves l = LU waves
c_robotupdt	varchar(1) not null	How new created order items are sent to a robot, in case some items of the order trip were already send to the robot before. m = manual by user action i = Automatic for items of partner orders where c_origin is empty (internal orders created by BPS itself) a = All automatic

t_usergroups

Assignment of users to groups.

Column	Type	Description
c_user	number(15) not null	References t_users.
c_group	number(15) not null	References t_groups.

t_users

Records of all available application users.

The actual database user name is *schema*|c_id, except for the schema owner with c_id=0, where the database user name is identical with the schema name. See v_users column c_dbuser.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_id	number(8) not null	Unique user (employee) number.
c_pincode	number(8) not null	PIN code for login. The actual db user password is *schema*|c_pincode
c_name	varchar(35)	Full name of user
c_mnemonic	varchar(10)	Shorthand logogram of user
c_phone	varchar(35)	Phone number to contact user
c_email	varchar(60)	Email address to contact user

t_vats

Value added taxes.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_name	varchar(35) not null	Name/description of the tax rate.
c_rate	number not null	Tax rate in percent

t_zonegroups

Assignment of users to zones.

Column	Type	Description
c_zone	number(15) not null	References t_zones.
c_group	number(15) not null	References t_groups.

t_zonepartners

Partners list per zone.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_zone	number(15) not null	References t_zones.
c_partner	number(15) not null	References t_partners.
c_pickplace	number	Picking place number, for example for MIFA robot.
c_prio	number	Picking priority. Lower number are higher priorities. Partners with same priority are ordered by c_id, c_key ascending. A null value is interpreted as lowest possible priority.

t_zones

Picking zones.

Column	Type	Description
c_key	number(15) not null	Primary key.
c_name	varchar(35) not null	Name of the picking zone.
c_epclocation	varchar(35)	EPCIS bizLocation ID.
c_pickmode	varchar(35)	Name of the picking mode in this zone.
c_entrymode	varchar(35)	Name of the goods receipt mode in this zone.
c_lotmode	varchar(35)	Name of the lot management mode in this zone.
c_packmode	varchar(35)	Name of the packing mide in this zone.
c_direction	varchar(1) not null	f = Forward r = Reverse b = Bidirectional
c_pictures	varchar(1) not null	n = Do not use pictures y = Use pictures if available
c_strictpartners	varchar(1) not null	Restrict order changes to this zone to partners defined in this zone, omit items of partners not defined in this zone. n = no, y = yes
c_storagedays	number	Default # of storage days, if c_storagedays in t_articles is empty

ta_*

Audit tables of the corresponding t_* tables. These tables hold the new content of the corresponling t_* table for update and insert operations, and the old content for delete operations.

It is more convenient to use the va_* views, where the audit records are joined to the table t_audits.

Column	Type	Description
c_audit	number(15) not null	References t_audits which holds the audit informations about user, time and operation performed.
c_*	?	Other columns as in corresponding t_* table.

tl_*

Logging tables are similar to audit tables and track changes. The main differences are the columns which are stored as old and new values. Also, the logging trigges are ment stay active all time.

Column	Type	Description
c_key	number(15) not null	Primary key of the log record itself.
c_user	number(15) not null	References t_users, but without db constraint.
c_time	timestamp not null	Time stamp of the operation.
c_old_*	?	Old values of columns c_* in corresponding table t_*.
c_new_*	?	New values of columns c_* in corresponding table t_*.

From:
http://bps.ibk-software.com/ - **BPS WIKI**

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Last update: **27.03.2021 13:04**