



K.Motion Advantage Application Database

Data Dictionary (for Warehouse Advantage)

Version 13.15



Körber Supply Chain
5600 W 83rd Street, Suite 600, Minneapolis, Minnesota 55437
T +1.800.328.3271
koerber-supplychain.com
support.sc.msp@koerber-supplychain.com

© Copyright 1999–2021 Körber Supply Chain U.S., Inc. (a successor in interest to HighJump Software Inc.) All Rights Reserved. Reproduction and distribution under license only.

This document and the software it describes are confidential and proprietary information of Körber Supply Chain U.S., Inc. and its affiliated entities and are copyrighted properties of Körber Supply Chain U.S., Inc. with all rights reserved. Information contained herein is subject to change at any time in Körber Supply Chain U.S., Inc.'s sole discretion. Neither this information nor the software may be copied in whole or in part without the prior written consent of Körber Supply Chain U.S., Inc.

This documentation and the related software programs are “commercial computer software” and “commercial computer software documentation” pursuant to DFAR Section 227.7202 and FAR Section 12.212 (and any successor sections). Use of this documentation or the related software programs, including reproduction and display of them, by the United States of America and/or any of its instrumentalities, regardless of form, (collectively, the “**Government**”), is allowed only as governed by terms of a valid license agreement with Körber Supply Chain U.S., Inc. or one of its affiliated companies. Under no circumstances shall Körber Supply Chain U.S., Inc. be obligated to comply with any Government requirements regarding cost or pricing data or cost accounting requirements. If any Government requirement might apply, you must notify Körber Supply Chain U.S., Inc. of the Government requirement and obtain a waiver or exemption for the benefit of Körber Supply Chain U.S., Inc. before you may use this documentation or the related software programs.

Körber is a trademark of Körber AG, Anckelmannsplatz 1, 20537 Hamburg, Germany. All trademarks used are the property of their respective owners.

Table of Contents

Introduction	1
Warehouse Advantage	2
Table Triggers	2
Warehouse Advantage Tables	5
t_allocation	5
t_allocation_q	6
t_appointment	9
t_asn_detail	11
t_asn_master	12
t_attrib_behavior_transaction	14
t_attribute_action	15
t_attribute_action_prompt	16
t_attribute_behavior	17
t_attribute_collection_detail	18
t_attribute_collection_master	18
t_attribute_exception_control	19
t_attribute_legacy_map	20
t_attribute_type	21
t_attribute_values	22
t_batch_label	22
t_bom_detail	23
t_bom_image	23
t_bom_instruction	24
t_bom_master	25
t_carrier	26
t_cart_master	28
t_cart_detail	29
t_cc_ccc_adjustment	30
t_cc_multiple_uom_qty	31
t_class	31
t_class_loc	32
t_client	33
t_compatibility	34
t_container	34
t_container_class	38
t_container_class_type	38
t_container_optimize_block	39
t_container_optimize_queue	40
t_container_optimize_status	41
t_container_optimize_xml	42
t_control	43
t_country	54
t_customer	56
t_emp_equipment	57
t_emp_input_log	57
t_emp_input_log_holding	58
t_emp_work_type	59
t_employee	60

t_employee_logon.....	64
t_employee_password.....	65
t_employee_prod_std.....	66
t_equipment_log.....	66
t_equipment_rules.....	67
t_equipment_rule_prompt.....	67
t_equipment_class.....	68
t_exception_log.....	68
t_file.....	69
t_format_validation.....	70
t_format_validation_override.....	71
t_freight_class.....	71
t_fwd_pick.....	72
t_gen_attrib_leg_map.....	73
t_hazard_detail.....	73
t_hazard_master.....	74
t_hazard_mix.....	74
t_hjone_application.....	75
t_hjone_inmotion.....	75
t_hjone_inmotion_assignments.....	75
t_hjone_menu_level.....	76
t_hjone_menu_level_assignments.....	76
t_hjone_role.....	77
t_hjone_role_assignments.....	78
t_holds.....	78
t_hu_master.....	79
t_intlv_gp_detail.....	81
t_intlv_gp_detail_op_dir.....	81
t_intlv_gp_master.....	82
t_intlv_process.....	83
t_item_class_dia_ovrd.....	83
t_item_comment.....	84
t_item_image.....	85
t_item_master.....	86
t_item_pickput_dia_ovrd.....	93
t_item_uom.....	94
t_item_upc.....	102
t_item_vendor.....	102
t_item_xdock_profile.....	103
t_label.....	105
t_label_confirm.....	106
t_label_info.....	106
t_labels_being_printed.....	107
t_label_print.....	107
t_locale.....	109
t_locale_date_format.....	109
t_location.....	110
t_lookup.....	113
t_logsend.....	114
t_manifest_batch_queue.....	116
t_manifest_carrier.....	116
t_menu.....	117
t_message.....	118
t_node.....	119
t_node_distance.....	119
t_node_loca.....	120

t_order	120
t_order_comment	129
t_order_detail	131
t_order_detail_comment	134
t_order_manifest	136
t_pack	139
t_pick_area	139
t_pick_container	140
t_pick_detail	144
t_pick_pass_sequence	148
t_pick_put_detail	148
t_pick_put_master	149
t_pick_put_rules	150
t_pick_task_uom	150
t_po_comment	151
t_po_detail	152
t_po_detail_comment	154
t_po_master	156
t_printer	158
t_process_control	160
t_prod_stds	162
t_putaway_listener	163
t_putwall_em_orders	164
t_pw_assign_zone	165
t_rcpt_ship	165
t_rcpt_ship_po	166
t_rcpt_ship_po_detail	167
t_reason	168
t_recall	169
t_recall_workbench	171
t_receipt	172
t_receipt_sn	174
t_region	175
t_report_authorization	175
t_returns	176
t_reusable	177
t_rma_detail	177
t_rma_master	178
t_schema_history	179
t_serial_number	179
t_serial_number_scanned	180
t_ship_via	181
t_shipment_track	181
t_skipped_task	182
t_sto_attrib_collection_detail	183
t_sto_attrib_collection_master	184
t_stop	184
t_storage_device	186
t_stored_item	188
t_tote_master	191
t_system	192
t_track_control	192
t_track_control_detail	193
t_track_item	195
t_track_summary	196
t_track_tran_group	197

t_track_tran_log_holding	198
t_tran_log.....	199
t_tran_log_holding	202
t_tran_log_holding_reason.....	205
t_tran_log_holding_sn.....	205
t_tran_log_reason	205
t_tran_log_sn.....	206
t_transaction.....	207
t_unknown_receipt	208
t_unknown_receipt_image	209
t_uom_orientation.....	210
t_user_entered_attributes	212
t_vas_audit_log	212
t_vas_location_type.....	213
t_vas_location_type_loca	213
t_vas_profile	214
t_vas_profile_applies.....	215
t_vas_profile_group.....	216
t_vas_profile_step	216
t_vas_task_describe.....	217
t_vas_task_group	217
t_vas_task_image	218
t_vas_task_pending	218
t_vas_task_response	219
t_vas_tasks.....	220
t_vendor.....	221
t_vendor_compliance	222
t_vendor_compliance_image	222
t_view_inventory.....	223
t_view_inventory_control.....	224
t_whse	225
t_whse_control	226
t_wl_cutoff_rules	234
t_wl_priority_rules	235
t_wl_processing_rules.....	238
t_wl_result_data	239
t_work_q.....	240
t_work_q_assignment	242
t_work_q_dependency	242
t_work_types	243
t_zone.....	245
t_zone_loca	245
Warehouse Advantage Views	246
v_track_inbound_summary	248
v_track_issued_summary.....	249
v_track_kitting_summary.....	250
v_track_nonorder_summary	251
v_track_outbound_summary.....	251

Introduction

The K.Motion Advantage Application Database Data Dictionary is issued in four separate documents as follows:

- *K.Motion Advantage Application Database Data Dictionary (for Advantage Fulfillment, Advanced Fulfillment Application and Advantage Fulfillment Optimizer)*
- *K.Motion Advantage Application Database Data Dictionary (for Warehouse Advantage)*
- *K.Motion Advantage Application Database Data Dictionary (for Integrations)*
- *K.Motion Advantage Application Database Data Dictionary (for Other Modules)*

Note

This document contains information about K.Motion Advantage Application Database tables for the Warehouse Advantage base application only.

See the Körber Supply Chain customer portal for additional data dictionary documents.

Warehouse Advantage

Table Triggers

The following table lists the triggers in the Warehouse Advantage application.

Table/View Name	Trigger Name	Function
t_attribute_action	tr_attribute_action_update	This trigger is fired before at least one of attribute_id, attribute_behavior_id, process_before, process_after and process_during is updated. The purpose of this trigger is to update the modified_date on the updated record in the table with current timestamp.
t_attribute_collection_detail	tr_attr_collect_detail_delete	This trigger is fired before a record is deleted from the table. The purpose of this trigger is to update the modified date on the parent record i.e., t_attribute_collection_master record corresponding to the deleted detail record with the current timestamp.
t_attribute_type	tr_attribute_type_insert	This trigger is fired after a record is inserted to the table. The purpose of this trigger is to insert records in tables t_attribute_action and t_attribute_action_prompt corresponding to each record in t_attribute_behavior table. The inserted t_attribute_action_prompt records use the default prompt of 'Scan attribute value'.
t_attribute_type	tr_attribute_type_update	This trigger is fired before at least one of attribute_type, description, import_validation, lookup_validation, prompt_validation and allow_mix is updated. The purpose of this trigger is to update the modified_date on the updated record in the table with current timestamp.
t_attribute_collection_detail	tr_attr_collect_detail_change	This trigger is fired before either sequence_id or attribute_id is updated or a new attribute_id is inserted in the table. The purpose of this trigger is to update the modified_date on the parent record i.e., t_attribute_collection_master record corresponding to the updated or inserted detail record with the current timestamp.

Table/View Name	Trigger Name	Function
t_item_master	tr_item_master_insert	This trigger is fired before a new record is inserted which has either the client code or the display_item_number as null. The purpose of this trigger is to set the client code and display item number i.e., wh_id and item_number respectively.
t_item_master	tr_item_master_update	This trigger is fired before a record is updated for lot control, serial control, or DIA collection. The purpose of this trigger is prevent updating these controls for an item if there is inventory for it.
t_order	tr_order_master_insert	This trigger is fired before a new record is inserted which has either the client code or the display_order_number as null. The purpose of this trigger is to set the client code and display order number i.e., wh_id and order_number respectively.
t_po_master	tr_po_master_insert	This trigger is fired before a new record is inserted which has either the client code or the display_po_number as null. The purpose of this trigger is to set the client code and display po number, e.g., wh_id and po_number respectively.
t_vas_tasks	tr_t_vas_tasks_delete	This trigger is fired before a record is deleted from the table. The purpose of this trigger is to delete any associated t_vas_task_image, t_vas_task_group, t_vas_task_describe, t_vas_task_pending and t_vas_task_profile_step records when a record is deleted from t_vas_tasks table if there is not work pending against it.
t_vas_tasks	tr_vas_task_ins	This trigger is fired before a record is inserted to the table. The purpose of this trigger is to insert a unique id into the vas_task_id field. It inserts a default transaction type of 600 if one is not specified.
v_rcpt_ship	tr_v_rcpt_ship_ins	Oracle Only. This trigger is fired when a record is inserted into the view. The purpose of this trigger is to insert the new record to the table t_rcpt_ship.
v_rcpt_ship	tr_v_rcpt_ship_upd	Oracle Only. This trigger is fired when a record is updated in the view. The purpose of this trigger is to update the corresponding record in the table t_rcpt_ship.
v_vas_profile_applies	tr_v_vas_profile_applies_del	This trigger is fired when a record is deleted from the view. This trigger deletes the corresponding record from the table t_vas_profile_applies.

Table/View Name	Trigger Name	Function
v_vas_profile_applies	tr_v_vas_profile_applies_ins	This trigger is fired when a record is inserted into the view. This trigger inserts the new record to the table t_vas_profile_applies.
v_vas_profile_applies	tr_v_vas_profile_applies_upd	This trigger is fired when a record is updated in the view. This trigger updates the corresponding record in the table t_vas_profile_applies.
t_whse	tr_warehouse_created_insert	This trigger is fired after a new warehouse record is inserted. The purpose of this trigger is to create a record in t_client when a new warehouse is created.

Warehouse Advantage Tables

Each table in Warehouse Advantage is outlined in detail below. The column data types are different depending upon the type of database used. This difference is due to how the different databases and data types support Unicode (multi-byte) data and numbers.

Notes

For an Oracle database the columns that are defined in the dictionary as VARCHAR or CHAR are defined in the database as VARCHAR2 and CHAR. Oracle VARCHAR2 datatypes are defined using character length, rather than byte length [for example, VARCHAR(100 CHAR)]. VARCHAR2 datatypes can store a maximum of 4,000 bytes. In certain multi-byte languages, this means you may not be able to store the total characters defined for a field if the field allows more than 1,000 characters.

For an Oracle database, the columns defined in the dictionary as INT are defined in the database as NUMBER(10).

t_allocation

This table stores the allocation information for picking, replenishments, planned moves.

Application Reference: ALO

Key/Index Name	Column Name	Clustered	Unique
pk_allocation	allocation_id	Y	Y
i_allocation_pick_wh	pick_id wh_id	N	N
i_allocation_key	wh_id pick_location item_number lot_number stored_attribute_id hold_reason_id INCLUDE(quantity)	N	N

Column Name	Type	Required? – Default Value	Description
allocation_id	INT IDENTITY(1,1)	Required	Unique identifier for the record.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
pick_id	INT	Required	Valid pick_id.
item_number	NVARCHAR(30)	Required	Valid item_number from t_item_master.

Column Name	Type	Required? – Default Value	Description
pick_location	NVARCHAR(50)	Required	Valid location_id from t_location.
picking_flow	NVARCHAR(10)	Optional	Picking flow from t_location record.
pick_area	NVARCHAR(10)	Required	Pick area
lot_number	NVARCHAR(15)	Optional	Lot Number
stored_attribute_id	BIGINT	Optional	Stored Attribute ID
quantity	FLOAT	Required – defaults to 0	Quantity to pick.
hold_reason_id	NVARCHAR(10)	Optional	Hold reason code for the allocation. Links to reason_id in t_reason table
work_type	NVARCHAR(2)	Required	Work type.
create_date	DATETIME	Required - Default GETDATE()	Record create date.
pick_rule	NVARCHAR(30)	Required	Pick rule which found the pick_location.

t_allocation_q

This table stores the allocation information for picking, replenishments, planned moves.

Application Reference: ALOQ

Key/Index Name	Column Name	Clustered	Unique
pk_allocation_q	q_id	Y	Y
i_allocation_q	thread_guid batch_guid wave_id load_id item_number priority date_added q_id wave_load_priority workers_required earliest_ship_date latest_ship_date override_work_type pkd_staging_loc	N	N

Key/Index Name	Column Name	Clustered	Unique
	wh_id		
i_allocation_q_prty_date	priority date_added	N	N
i_allocation_q_prty_desc	status priority date_added thread_guid batch_guid wave_id load_guid_id item_number wh_id q_id wave_load_priority workers_required earliest_ship_date latest_ship_date override_work_type pkd_staging_loc	N	N

Column Name	Type	Required? – Default Value	Description
q_id	BIGINT IDENTITY(1,1)	Required	Unique identifier for the record.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
item_number	NVARCHAR(50)	Required	Valid item_number from t_item_master
status	CHAR(1)	Required – defaults to U	Valid statuses are U – Unassigned P – In process C - Closed
priority	NVARCHAR(10)	Optional – defaults to 30	Priority of the queue record.
date_added	DATETIME	Required Default GETDATE()	Record create date.

Column Name	Type	Required? – Default Value	Description
date_started	DATETIME	Optional	Date allocation started processing.
date_finished	DATETIME	Optional	Date allocation finished processing
thread_guid	NVARCHAR(36)	Optional	Thread ID for unique item being processed for service broker.
batch_guid	NVARCHAR(36)	Optional	Batch ID for the wave or load being processed. References t_af_process_data.batch_guid.
wave_id	NVARCHAR(20)	Optional	Wave identifier.
load_id	NVARCHAR(30)	Optional	Load identifier.
load_guid_id	NVARCHAR(36)	Optional	Unique ID for load release batch.
wave_load_priority	NVARCHAR(10)	Optional	Priority of wave or load work.
workers_required	INTEGER	Optional	Workers required for wave or load
earliest_ship_date	DATETIME	Optional	Earliest date for the wave or load.
latest_ship_date	DATETIME	Optional	Latest date for the wave or load.
override_work_type	NVARCHAR(2)	Optional	Override work type selected from release
pkd_staging_loc	NVARCHAR(20)	Optional	Staging location of the wave or load.

t_appointment

This table stores appointment information for tracking door arrivals and departures.

Application Reference: APT

Key/Index Name	Column Name	Clustered	Unique
pk_appointment	appointment_id	Y	Y

Column Name	Type	Required? – Default Value	Description
appointment_id	INT IDENTITY(10)	Required	Unique identifier for the record.
type	NVARCHAR(10)	Required	Type of appointment.
sub_type	NVARCHAR(10)	Required	Additional identifier for appointment.
priority	INT(10)	Required	Appointment priority.
status	NVARCHAR(50)	Optional – defaults to NEW	Appointment status.
gate_pass_id	INT(10)	Optional	Gate pass identifier.
trailer_id	INT(10)	Optional	Trailer identifier.
location_id	INT(10)	Optional	Location identifier
state	NVARCHAR(10)	Required	The state of the trailer. Valid values are: Empty Full
carrier_id	INT(10)	Required	Carrier identifier.
load_number	NVARCHAR(30)	Optional	Load number is used to associate an order with the appointment.
expected_arrival	DATETIME(23)	Optional	Date and time trailer is expected to arrive at the gate.
actual_arrival	DATETIME(23)	Optional	Date and time trailer actually arrived.
expected_departure	DATETIME(23)	Optional	Date and time trailer is expected to leave the gate.
actual_departure	DATETIME(23)	Optional	Date and time trailer actually left the gate.
time_allowed_early	INT(10)	Optional – defaults to 0	How early the trailer is allowed to enter the yard.
time_allowed_late	INT(10)	Optional – defaults to 0	How late the trailer is allowed to enter the yard.

Column Name	Type	Required? – Default Value	Description
disposition	NVARCHAR(100)	Optional	If the trailer is early or late describes what action should be taken.
total_weight	FLOAT(15)	Optional – defaults to 0	The current total weight of the contents of the trailer.
total_volume	FLOAT(15)	Optional – defaults to 0	The current total volume of the contents of the trailer.
notes	NVARCHAR(250)	Optional	Notes.
created	DATETIME(23)	Required	Date and time appointment was entered.

t_asn_detail

Stores ASN details.

Application Reference: ASD

Key/Index Name	Column Name	Clustered	Unique
pk_asn_detail	asn_number asn_line_number schedule_number wh_id	Y	Y
i_asn_detail_item_line_wh	asn_number item_number asn_line_number wh_id	N	N
i_asn_detail_asn_number_wh_id	asn_number wh_id	N	N
i_asn_detail_wh_id	wh_id	N	N
i_asn_detail_item_number_wh_id	item_number wh_id	N	N
fk_asn_master	t_asn_master (asn_number, wh_id)		
fk_asn_detail_whid	t_whse (wh_id)		
fk_asn_item_master	t_item_master (item_number, wh_id)		

Column Name	Type	Required? – Default Value	Description
asn_number	NVARCHAR(30)	Required	ASN identifier.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
status	CHAR(1)	Required	Status of ASN detail line. Valid values are: C – Closed O – Open
asn_line_number	NVARCHAR(5)	Required	Line number for the item on the ASN.
schedule_number	NUMBER(10)	Required	Schedule number.
hu_id	NVARCHAR(22)	Required	Identifier associated with the license plate for the anticipated receipt.
item_number	NVARCHAR(30)	Required	Item identifier.
lot_number	NVARCHAR(15)	Optional	Lot number of the item.

Column Name	Type	Required? – Default Value	Description
qty	FLOAT(15)	Required – must be greater than zero	Anticipated item quantity.
po_line_number	NVARCHAR(5)	Required	Inbound order line number.
po_number	NVARCHAR(30)	Required	Inbound order number associated with the ASN detail line.
stored_attribute_id	BIGINT	Optional	DIA Stored Attribute Collection identifier.

t_asn_master

Stores ASN master data.

Application Reference: ASN

Key/Index Name	Column Name	Clustered	Unique
pk_asn_master	asn_number wh_id	Y	Y
i_asn_master_vendor_code	vendor_code	N	N
i_asn_master_wh_id	wh_id	N	N
i_asn_master_display	display_asn_number client_code wh_id asn_number	N	N
fk_asn_master_whid	t_whse (wh_id)		
fk_asn_master_vendor	t_vendor (vendor_code)		
fk_asn_master_client_code	t_client (wh_id, client_code)		

Column Name	Type	Required? – Default Value	Description
asn_number	NVARCHAR(30)	Required	ASN identifier
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
status	NCHAR(1)	Required	Status of the ASN. Valid values are: C – Closed O – Open
vendor_code	NVARCHAR(10)	Optional	The vendor code for the ASN.

Column Name	Type	Required? – Default Value	Description
carrier_scac	NVARCHAR(50)	Optional	Standard Carrier Alpha Code. This field is used by the TMS Integration Module.
create_date	DATETIME	Optional	ASN record create date.
delivery_date	DATETIME	Optional	ASN expected delivery date.
client_code	NVARCHAR(30)	Optional	For 3PL this is the client code and matches one of the defined clients (see t_client). Otherwise, this is the warehouse identifier.
display_asn_number	NVARCHAR(30)	Optional	ASN number displayed on RF and on web pages depending on conditional visibility settings. May be different from the value in asn_number.
appointment_number	NVARCHAR(50)	Optional	WA Adapter for Schedule field - appointment number.
appointment_status	NVARCHAR(100)	Optional	WA Adapter for Schedule field – appointment status.
scheduled_location	NVARCHAR(50)	Optional	WA Adapter for Schedule field - scheduled location.
scheduled_start	DATETIME	Optional	WA Adapter for Schedule field - scheduled start time.
scheduled_duration	INTEGER	Optional	WA Adapter for Schedule field – scheduled duration time.
ship_from_name	NVARCHAR(30)	Optional	Ship from name.
ship_from_phone	NVARCHAR(30)	Optional	Ship from phone number.
ship_from_addr1	NVARCHAR(30)	Optional	Ship from address line 1.
ship_from_addr2	NVARCHAR(30)	Optional	Ship from address line 2.
ship_from_city	NVARCHAR(30)	Optional	Ship from city.
ship_from_state	NVARCHAR(3)	Optional	Ship from state/region.
ship_from_postal_code	NVARCHAR(12)	Optional	Ship from postal code.
ship_from_country_code	NVARCHAR(5)	Optional	Ship from country code.
ship_from_attention	NVARCHAR(30)	Optional	Ship from attention.

t_attrib_behavior_transaction

This table is used to define the transaction codes that represent a defined Dynamic Item Attribute behavior. This table is the detail table for the t_attribute_behavior table.

Application Reference: ABT

Key/Index Name	Column Name	Clustered	Unique
pk_behavior_transaction_id	behavior_transaction_id	Y	Y
fk_attr_behr_tran_behr_id	t_attribute_behavior (attribute_behavior_id)		
i_attrib_behavior_transaction	attribute_behavior_id	N	N

Column Name	Type	Required? – Default Value	Description
behavior_transaction_id	INT IDENTITY(10)	Required	Unique identifier for the record.
attribute_behavior_id	INT(10)	Required	Foreign key to t_attribute_behavior.attribute_behavior_id
transaction_code	NVARCHAR(3)	Required	The transaction code value specific to the logical/functional area of the application that is grouped into the behavior.

t_attribute_action

This table defines the relevant functional actions that are valid for a given pre-defined Dynamic Item Attribute. The records in this table determine the application logic the Warehouse Advantage application uses when processing attribute data.

Application Reference: ATA

Key/Index Name	Column Name	Clustered	Unique
pk_attribute_action_id	attribute_action_id	Y	Y
ui_attribute_action	attribute_id attribute_behavior_id	N	Y
i_attribute_action_behavior	attribute_behavior_id	N	N
fk_attribute_action_attribute_id	t_attribute_type (attribute_id)		
fk_attribute_action_attribute_behavior	t_attribute_behavior (attribute_behavior_id)		

Column Name	type	Required? – Default Value	Description
attribute_action_id	INT IDENTITY(10)	Required	Unique identifier for the record.
attribute_id	INT(10)	Required	Attribute identifier of attribute. Foreign Key to t_attribute_type.attribute_id.
attribute_behavior_id	INT(10)	Optional	Foreign Key to t_attribute_behavior.attribute_behavior_id. Value is used to create action groupings for specific attributes based on transaction code data. This allows the application to respond differently to an attribute depending on the context of the current placement within the application workflow.
process_before	NVARCHAR(60)	Optional	Warehouse Advantage process object name for pre-user prompting attribute processing.
process_after	NVARCHAR(60)	Optional	Warehouse Advantage process object name for post-user prompting attribute processing.
process_during	NVARCHAR(60)	Optional	Warehouse Advantage process object name for user prompting attribute processing.
create_date	DATETIME(23)	Optional – defaults to current date	Date/time record was created.

Column Name	type	Required? – Default Value	Description
modified_date	DATETIME(23)	Optional – defaults to current date	Date/time record was modified.

t_attribute_action_prompt

This table is used to define the attribute specific prompts that are displayed to the user through processing of Dynamic Item Attribute data.

Application Reference: AAP

Key/Index Name	Column Name	Clustered	Unique
pk_attribute_action_prompt	attribute_action_id locale_id	Y	Y
fk_attribute_action_prompt_action_id	t_attribute_action (attribute_action_id)		

Column Name	Type	Required? – Default Value	Description
attribute_action_id	INT(10)	Required	Foreign key identifier to t_attribute_action.attribute_action_id
locale_id	NVARCHAR(10)	Required	Locale ID of the defined prompt records
short_prompt	NVARCHAR(60)	Required	The actual message displayed on the user's device.
long_prompt	NVARCHAR(120)	Optional	Long prompt message for display on large format dialogs.
locale_attribute_type	NVARCHAR(20)	Optional	Locale-specific attribute type value. If no locale-specific value is defined, the t_attribute_action.attribute_type value is used.

t_attribute_behavior

This table is used to define Dynamic Item Attribute behaviors. An attribute behavior is a header level record used to define attribute actions to differentiate attribute actions into logical, transaction code-based groupings. This allows a user to define behaviors related to functional application groupings, (e.g., receipts, picking) and then through the use of the t_attribute_behavior_transaction table, associate the actual transaction codes that are considered part of the behavioral grouping.

Note

Use of attribute behaviors is optional. If no attribute behaviors are defined, only one attribute action can exist for an attribute.

Application Reference: ATB

Key/Index Name	Column Name	Clustered	Unique
pk_attribute_behavior_id	attribute_behavior_id	Y	Y

Column Name	Type	Required? – Default Value	Description
attribute_behavior_id	INT IDENTITY(10)	Required	Unique identifier for the record.
attribute_behavior_type	NVARCHAR(10)	Required	Human-readable behavior code grouping value.
description	NVARCHAR(60)	Optional	Description of the behavior code grouping.
def_process_during	NVARCHAR(60)	Optional	Default process for user prompting.
def_process_before	NVARCHAR(60)	Optional	Default process for pre-user prompting.
def_process_after	NVARCHAR(60)	Optional	Default process for post-user prompting.

t_attribute_collection_detail

This table defines attribute collection details.

Application Reference: ATCD

Key/Index Name	Column Name	Clustered	Unique
pk_attribute_collection	attribute_collection_id attribute_id	Y	Y
i_attribute_collection_detail	attribute_id	N	N
fk_attribute_collection_master_id	t_attribute_collection_master (attribute_collection_id)		
fk_attribute_collection_attribute_id	t_attribute_type (attribute_id)		

Column Name	Type	Required? – Default Value	Description
attribute_collection_id	INT(10)	Required	Unique identifier for the record.
attribute_id	INT(10)	Required	Attribute identifier. Foreign Key to the t_attribute_type.attribute_id.
sequence_id	INT(10)	Required	Positional sequence of the attribute within the collection.

t_attribute_collection_master

This table defines attribute collection header records. An attribute collection is a pre-defined grouping of attributes. An attribute collection is used to define the Dynamic Item Attributes used to define attributes for an item. The attribute collection controls the attributes tracked for an item and the sequence in the system prompts for those attributes.

Application Reference: ATCM

Key/Index Name	Column Name	Clustered	Unique
pk_attribute_collection_master	attribute_collection_id	Y	Y

Column Name	Type	Required? – Default Value	Description
attribute_collection_id	INT IDENTITY(10)	Required	Unique identifier for the record.
attribute_collection_name	NVARCHAR(30)	Required	Human-readable collection name value.
create_date	DATETIME(23)	Optional – defaults to current date	Date/time record was created.

Column Name	Type	Required? – Default Value	Description
modified_date	DATETIME(23)	Optional – defaults to current date	Date/time record was modified.

t_attribute_exception_control

This table defines tracking exceptions for Dynamic Item Attributes. By default, all items that are associated to an attribute collection will utilize full tracking (four-wall) functionality for that attribute. Control exceptions to the full tracking rule are defined by item, attribute and control type. The available trace controls are Trace In/Out, Inbound Trace Only and Outbound Trace Only.

Application Reference: AEC

Key/Index Name	Column Name	Clustered	Unique
pk_attribute_exception	attribute_id item_number wh_id	Y	Y
fk_attribute_exception_attribute_id	t_attribute_type (attribute_id)		

Column Name	Type	Required? – Default Value	Description
attribute_id	INT(10)	Required	Attribute ID for the exception record. Foreign Key to t_attribute_type.attribute_id.
item_number	NVARCHAR(30)	Required	Item Number for exception.
wh_id	NVARCHAR(10)	Required	The warehouse ID for exception record.
attribute_control	CHAR(1)	Required	Trace value for exception record. Valid values are: I – Inbound Trace Only O – Outbound Trace Only T – Trace In/Out

t_attribute_legacy_map

This table is used to map the eleven generic attribute columns used in imports and exports to the user-defined attribute type values. This table only contains one row (and MUST contain a single row if DIA is enabled). The attribute type defined for each of the eleven generic attributes is used for all imports and exports.

For example, if the generic_attribute_1 column references the attribute_id of the LOT_NUMBER attribute, the system interprets that value as a LOT_NUMBER value in all imports and exports that support Dynamic Item Attributes.

Application Reference: ALM

Column Name	Type	Required? – Default Value	Description
generic_attribute_1	INT(10)	Optional	Attribute ID used to map the first generic attribute.
generic_attribute_2	INT(10)	Optional	Attribute ID used to map the second generic attribute.
generic_attribute_3	INT(10)	Optional	Attribute ID used to map the third generic attribute.
generic_attribute_4	INT(10)	Optional	Attribute ID used to map the fourth generic attribute.
generic_attribute_5	INT(10)	Optional	Attribute ID used to map the fifth generic attribute.
generic_attribute_6	INT(10)	Optional	Attribute ID used to map the sixth generic attribute.
generic_attribute_7	INT(10)	Optional	Attribute ID used to map the seventh generic attribute.
generic_attribute_8	INT(10)	Optional	Attribute ID used to map the eighth generic attribute.
generic_attribute_9	INT(10)	Optional	Attribute ID used to map the ninth generic attribute.
generic_attribute_10	INT(10)	Optional	Attribute ID used to map the tenth generic attribute.
generic_attribute_11	INT(10)	Optional	Attribute ID used to map the eleventh generic attribute.

t_attribute_type

This table defines all attributes the system tracks and manages using Dynamic Item Attribute functionality.

Application Reference: ATT

Key/Index Name	Column Name	Clustered	Unique
pk_attribute_id	attribute_id	Y	Y
ui_attribute_type	attribute_type	N	Y

Column Name	Type	Required? – Default Value	Description
attribute_id	INT IDENTITY	Required	Unique identifier for the record.
attribute_type	NVARCHAR(20)	Required	User-defined attribute type value (e.g., Lot Number, Style, Owner).
description	NVARCHAR(60)	Optional	Short description of attribute.
import_validation	CHAR(1)	Required - defaults to N	Indicates if value validation is required during imports. Valid values are: N – No Y – Yes
lookup_validation	CHAR(1)	Required – defaults to N	Indicates if lookup validation against t_attribute_values is required. Valid values are: N – No Y – Yes
create_date	DATETIME(23)	Optional – defaults to current date	Date/time record was created.
modified_date	DATETIME(23)	Optional defaults to current date	Date/time record was modified.
prompt_validation	CHAR(1)	Required – defaults to D	Determines prompting behavior for capturing attributes. Valid values are: D – Default (prompts user with default values provided) P – Prompt (prompt user for values) S – Skip (inherits previous attribute values)

Column Name	Type	Required? – Default Value	Description
allow_mix	CHAR(1)	Optional – defaults to Y	Determines whether a single item number with different attributes can be mixed together in a location. Valid values are: N – No Y – Yes

t_attribute_values

This table is used to store valid lookup values for defined Dynamic Item Attributes. If an attribute record indicates lookup validation of user input is required, then attribute values are required in this table.

Application Reference: ATV

Key/Index Name	Column Name	Clustered	Unique
pk_attribute_values	attribute_id attribute_value	Y	Y
fk_attribute_values_attribute_id	t_attribute_type (attribute_id)		

Column Name	Type	Required? – Default Value	Description
attribute_id	INT(10)	Required	Attribute ID for the exception record. Foreign Key to t_attribute_type.attribute_id.
attribute_value	NVARCHAR(250)	Required	Valid lookup value for attribute.

t_batch_label

This table stores the data used for printing labels when label-picking work is released to the work queue.

Key/Index Name	Column Name	Clustered	Unique
pk_batch_label	batch_label_id	Y	Y

Column Name	Type	Required? Default Value	Description
batch_label_id	INT IDENTITY	Required	Unique identifier for the record.
label_data	NVARCHAR(2000)	Required	Contains the data that will be printed on the label along with the label name.
group_batch_id	NVARCHAR(60)	Required	Unique ID to identify the group of labels to print.

t_bom_detail

This table stores Bill of Materials (BOM) details with a relation to the BOM master table by the BOM identifier. This data is used in the kitting processes.

Application Reference: BMD

Key/Index Name	Column Name	Clustered	Unique
pk_bom_detail	kit_id wh_id item_number	Y	Y
i_bom_detail_stored_attribute	stored_attribute_id	N	N
fk_bom_master	t_bom_master (kit_id, wh_id)		
fk_bom_detail_stored_attr_id	t_sto_attr_collection_master (stored_attribute_id)		

Column Name	Type	Required? Default Value	Description
kit_id	NVARCHAR(30)	Required	BOM identifier. Note This must also correspond to an item number in the item tables.
wh_id	NVARCHAR(10)	Required	Warehouse identifier.
item_number	NVARCHAR(30)	Required	Item number of the component item.
quantity	FLOAT(15)	Required	Quantity of component item needed for a single Bill of Materials. Value must be greater than zero.
stored_attribute_id	BIGINT(19)	Optional	DIA Stored Attribute Collection identifier.

t_bom_image

This table stores Bill of Materials (BOM) image data. This allows association of images to clarify kit-building instructions.

Column Name	Type	Required? – Default Value	Description
kit_id	NVARCHAR(30)	Required	BOM identifier.
wh_id	NVARCHAR(10)	Required	Warehouse identifier.
build_sequence	INT(10)	Required	Build sequence. Foreign Key to t_bom_instruction.build_sequence.
sequence	INT(10)	Required	Order the images for a specific build_sequence are displayed.
picture_mime_type	NVARCHAR(30)	Required	Picture file mime type.

Column Name	Type	Required? – Default Value	Description
picture_filename	NVARCHAR(250)	Required	Picture filename.
picture	VARBINARY(MAX)	Required	Image data.

t_bom_instruction

This table stores Bill of Materials (BOM) building instructions.

Key/Index Name	Column Name	Clustered	Unique
pk_t_bom_instruction	kit_id wh_id build_sequence	Y	Y

Column Name	Type	Required? – Default Value	Description
kit_id	NVARCHAR(30)	Required	BOM identifier.
wh_id	NVARCHAR(10)	Required	Warehouse identifier.
build_sequence	INT(10)	Required	Order of the instructions for a BOM.
status	NVARCHAR(15)	Optional	Status of the instruction. Valid values are: A – Active I – Inactive
instruction	NVARCHAR(250)	Required	Information describing this sequence/step of instructions.

t_bom_master

This table stores Bill of Materials (BOM) header records.

Application Reference: BMM

Key/Index Name	Column Name	Clustered	Unique
pk_bom_master	kit_id wh_id	Y	Y

Column Name	Type	Required? – Default Value	Description
kit_id	NVARCHAR(30)	Required	Bill of Materials identifier. Note This must also correspond to an item number in the item tables.
wh_id	NVARCHAR(10)	Required	Warehouse identifier.
description	NVARCHAR(30)	Optional	Bill of Materials description.
location_id	NVARCHAR(50)	Optional	Default assembly location. Note If a location is defined, the system suggests this location for the kitting process.
status	CHAR(1)	Optional	Status of the BOM. Valid values are: A – Available U – Unavailable
created_date	DATETIME(23)	Optional	Date the Bill of Materials was entered.

t_carrier

This table contains carrier information.

Application Reference: CAR

Key/Index Name	Column Name	Clustered	Unique
pk_carrier	carrier_id	Y	Y
ui_carrier	carrier_code	N	Y
ui_carrier_scac	scac_code	N	Y

Column Name	Type	Required? – Default Value	Description
carrier_id	INT IDENTITY(10)	Required	Unique identifier for the record.
carrier_code	NVARCHAR(30)	Required	Unique identifier for the carrier.
carrier_name	NVARCHAR(100)	Required	Name or description for the carrier.
scac_code	NVARCHAR(50)	Optional	Standard Carrier Alpha Code.
transport_mode	NVARCHAR(30)	Not used	
carrier_group_id	INT(10)	Not used	
contact_name	NVARCHAR(40)	Optional	Contact name for the carrier.
cdl_verify	NVARCHAR(3)	Optional	Indicates whether to validate a driver's Commercial Driver's License. Suggested values are: NO YES
time_allowed_early	INT(10)	Optional	How early a carrier's trailer is allowed to arrive in minutes. Informational only.
time_allowed_late	INT(10)	Optional	How late a carrier's trailer is allowed to arrive.in minutes. Informational only.
disposition	NVARCHAR(100)	Optional	Describes the action to take if a carrier's trailer arrives early or late.
default_trailer_type_id	INT(10)	Not used	
default_priority	NVARCHAR(3)	Optional	Default carrier priority.
dock_schedule_method	NVARCHAR(50)	Optional	Dock schedule method.
notes	NVARCHAR(250)	Optional	Any notes specific to a carrier.
effective	DATETIME(23)	Optional	Date carrier became effective.

Column Name	Type	Required? – Default Value	Description
status	NVARCHAR(30)	Optional	Carrier status. Valid values are: ACTIVE INACTIVE
freight_fwd_flag	CHAR(1)	Optional	Freight forwarder. Informational only.
address1	NVARCHAR(100)	Optional	Address line 1.
address2	NVARCHAR(100)	Optional	Address line 2.
address3	NVARCHAR(100)	Optional	Address line 3.
address4	NVARCHAR(100)	Optional	Address line 4.
city	NVARCHAR(100)	Optional	City.
county	NVARCHAR(30)	Optional	County.
state	NVARCHAR(50)	Optional	State/region.
zip	NVARCHAR(12)	Optional	Postal code.
country	NVARCHAR(50)	Optional	Country.
country_code	NVARCHAR(3)	Optional	Country code.
phone	NVARCHAR(50)	Optional	Phone number.
extension	NVARCHAR(6)	Optional	Phone extension.
fax	NVARCHAR(50)	Optional	Fax number.
email	NVARCHAR(100)	Optional	Email address.
website	NVARCHAR(100)	Optional	Website.
manifest_carrier_flag	CHAR(1)	Optional	Indicates whether the carrier is used for parcel manifesting. Valid values are: N – No Y – Yes This field is used by Advantage Link for Flagship.
flagship_carrier_code	NVARCHAR(25)	Optional	The Kewill Flagship supported carrier code. This field is used by Advantage Link for Flagship.

t_cart_master

Stores a record of all carts defined in Warehouse Advantage.

Key/Index Name	Column Name	Clustered	Unique
pk_cart_id	cart_id	Y	Y
ui_cart_master	wh_id, cart_name	N	Y

Column Name	Type	Required? – Default Value	Description
cart_id	INT IDENTITY	Required	Row Identifier.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
cart_name	NVARCHAR(50)	Required	Name of the Cart.
type	NVARCHAR(50)	Optional	Cart Type.
user_assigned	NVARCHAR(10)	Optional	User currently assigned to work on cart.
last_used	DATETIME	Optional	The last time the cart was used.
last_location	NVARCHAR(60)	Optional	The last known location of the cart.

t_cart_detail

Stores a record of all cart details to be used by Warehouse Advantage.

Key/Index Name	Column Name	Clustered	Unique
pk_cart_detail_id	cart_detail_id	Y	Y
ui_cart_detail	wh_id, cart_name, position, level	N	Y

Column Name	Type	Required? – Default Value	Description
cart_detail_id	INT IDENTITY	Required	Row Identifier.
wh_id	NVARCHAR(10)	Required	Valid Warehouse Identifier.
cart_name	NVARCHAR(50)	Required	Name of the cart that this will be associated with.
description	NVARCHAR(100)	Optional	Description of the cart detail.
position	NVARCHAR(10)	Required	Position on the cart.
level	NVARCHAR(10)	Required	Level on the cart.
pos_length	INTEGER	Optional	Position Length
pos_width	INTEGER	Optional	Position Width
pos_height	INTEGER	Optional	Position Height
tote_id	NVARCHAR(50)	Optional	Tote that is currently assigned to this position and level on the cart.

t_cc_ccc_adjustment

Stores a record of all cycle count/cycle count check/adjustment transactions logged by the Warehouse Advantage application.

Key/Index Name	Column Name	Clustered	Unique
pk_cc_ccc_adjustment	adjustment_id	Y	Y
i_adjustment	adjust_datetime tran_type	N	N
i_adjustment_location_employee	source_location_id employee_id tran_type adjust_datetime	N	N
i_adjustment_lp_employee	source_hu_id employee_id tran_type adjust_datetime	N	N

Column Name	Type	Required? – Default Value	Description
adjustment_id	INT IDENTITY	Required	Adjustment identifier.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
client_code	NVARCHAR(30)	Optional	Client code.
tran_type	NVARCHAR(3)	Required	Transaction type.
description	NVARCHAR(50)	Optional	Describes type of transaction.
source_location_id	NVARCHAR(50)	Optional	“FROM” location identifier.
destination_location_id	NVARCHAR(50)	Optional	“TO” location identifier.
item_number	NVARCHAR(30)	Optional	Item number involved in transaction.
display_item_number	NVARCHAR(30)	Optional	Item number used in the display_item_number column.
employee_id	NVARCHAR(10)	Required	Employee identifier.
source_hu_id	NVARCHAR(22)	Optional	“FROM” handling unit identifier.
destination_hu_id	NVARCHAR(22)	Optional	“TO” handling unit identifier.
lot_number	NVARCHAR(15)	Optional	Lot Number
original_quantity	FLOAT	Required	Number of items involved in the transaction.
new_quantity	FLOAT	Required	Number of items after the transaction finished.

Column Name	Type	Required? – Default Value	Description
work_q_id	NVARCHAR(30)	Optional	Valid work queue identifier.
adjust_datetime	DATETIME	Optional – '01/01/1900'	The date of the transaction.
expiration_date	DATETIME	Optional – '01/01/1900'	Expiration Date.
master_hu_id	NVARCHAR(22)	Optional	The master license plate identifier.

t_cc_multiple_uom_qty

Stores item uom information to be displayed to a user counting an item with multiple uoms.

Key/Index Name	Column Name	Clustered	Unique
pk_cc_multiple_uom_qty	multiple_uom_qty_id	Y	Y

Column Name	Type	Required? – Default Value	Description
multiple_uom_qty_id	INT IDENTITY	Required	Multiple UOM Qty identifier.
wh_id	NVARCHAR(10)	Required	Warehouse identifier.
item_number	NVARCHAR(30)	Required	Item Number.
conversion_factor	FLOAT	Required	Conversion Factor.
counted_qty	FLOAT	Required	Counted Quantity.

t_class

This table stores item put-away classes within the warehouse. Each class may have an associated overflow class for situations when the class is unavailable.

Note

Class is used for putaway processes. Zone and Pick Area are used for picking processes.

Application Reference: CLS

Key/Index Name	Column Name	Clustered	Unique
pk_class	class_id wh_id	Y	Y

Column Name	Type	Required? – Default Value	Description
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
class_id	NVARCHAR(10)	Required	Valid class identifier in the warehouse.

Column Name	Type	Required? – Default Value	Description
description	NVARCHAR(50)	Optional	Description of the class identifier.
overflow_class	NVARCHAR(10)	Optional	Overflow class associated with the class identifier.
target_put_percent	FLOAT(15)	Not used	

t_class_loca

This table stores information about the valid classes for any locations listed within the warehouse.
This table defines the relationship between classes and locations.

Application Reference: CLC

Key/Index Name	Column Name	Clustered	Unique
pk_class_loca	location_id class_id wh_id	Y	Y
i_class_loca_class_id_wh_id	class_id, wh_id	N	N
i_class_loca_location_id_wh_id	location_id, wh_id	N	N

Column Name	Type	Required? – Default Value	Description
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
class_id	NVARCHAR(10)	Required	Valid class identifier.
location_id	NVARCHAR(50)	Required	Valid location identifier.
fill_seq	NVARCHAR(3)	Not used	

t_client

This table stores information about the 3PL clients.

Application Reference: CLT

Key/Index Name	Column Name	Clustered	Unique
pk_client	wh_id	Y	Y
	client_code		

Column Name	Type	Required? – Default Value	Description
wh_id	NVARCHAR(10)	Required	Warehouse identifier.
client_code	NVARCHAR(30)	Required	Client code.
name	NVARCHAR(100)	Required	Customer name.
addr1	NVARCHAR(30)	Optional	Address line 1.
addr2	NVARCHAR(30)	Optional	Address line 2.
addr3	NVARCHAR(30)	Optional	Address line 3.
city	NVARCHAR(30)	Optional	City.
state	NVARCHAR(6)	Optional	State/region.
zip	NVARCHAR(12)	Optional	Postal code.
country_code	CHAR (5)	Optional	Country code.
country_name	NVARCHAR(30)	Optional	Country name.
phone	NVARCHAR(30)	Optional	Phone number.
email	NVARCHAR(30)	Optional	Email address.
contact	NVARCHAR(30)	Optional	Contact name.
fax	NVARCHAR(30)	Optional	Fax number.

t_compatibility

This table holds Equipment compatibility information.

Key/Index Name	Column Name	Clustered	Unique
pk_compatibility	compatibility_id	Y	Y
ui_compatibility_name	name	N	Y

Column Name	Type	Required? – Default Value	Description
compatibility_id	INT IDENTITY	Required	Unique identifier.
name	NVARCHAR(50)	Required	Unique name.
description	NVARCHAR(200)	Optional	Description.

t_container

Holds all valid container types available to a warehouse along with the weight and volume of the container.

Application Reference: CON

Key/Index Name	Column Name	Clustered	Unique
pk_container	wh_id container_type	Y	Y

Column Name	Type	Required? – Default Value	Description
wh_id	NVARCHAR(10)	Required	Warehouse identifier.
container_type	NVARCHAR(10)	Required	Unique container type for the warehouse.
description	NVARCHAR(50)	Optional	Container description.
weight	FLOAT(15)	Required	Weight.
volume	FLOAT(15)	Required	Volume.
type_index	INT(10)	Optional – defaults to 1	Index type.
full_length	FLOAT(15)	Optional – defaults to 1	Full length.

Column Name	Type	Required? – Default Value	Description
full_width	FLOAT(15)	Optional – defaults to 1	Full width.
full_height	FLOAT(15)	Optional – defaults to 1	Full height.
num_available	INT(10)	Optional – defaults to 0	Number available.
weight_cap	FLOAT(15)	Optional – defaults to 1	Weight capacity.
front_view	INT(10)	Optional – defaults to 0	Front view.
load_bottom_to_top	INT(10)	Optional – defaults to 0	Load bottom to top.
fill_bottom_first	INT(10)	Optional – defaults to 0	Fill bottom first.
sequence	INT(10)	Optional – defaults to 1	Sequence.
layers	INT(10)	Optional – defaults to 0	Layers.
spread	INT(10)	Optional – defaults to 0	Spread.
mixed_layers	INT(10)	Optional – defaults to 0	Mixed layers.
layers_last_pallet	INT(10)	Optional – defaults to 0	Layers last pallet.
min_util_for_layers	INT(10)	Optional – defaults to 0	Minimum utility for layers.
alternate_layers	INT(10)	Optional – defaults to 0	Alternate layers.

Column Name	Type	Required? – Default Value	Description
volume_cap_percentage	FLOAT(15)	Optional – defaults to 0	Volume capacity percentage.
container_value_max	FLOAT(15)	Optional – defaults to 0	Container value maximum.
max_optimization_time	INT(10)	Optional – defaults to 0	Maximum optimization time.
max_non_improve_iters	INT(10)	Optional – defaults to 0	Maximum non-improve iters.
use_defaults	INT(10)	Optional – defaults to 1	Use defaults.
abs_max_block_depth	FLOAT(15)	Optional – defaults to 0	ABS maximum block depth.
loading_margin	FLOAT(15)	Optional – defaults to 0	Loading margin.
depth_loading_margin	FLOAT(15)	Optional – defaults to 0	Depth loading margin.
width_loading_margin	FLOAT(15)	Optional – defaults to 0	Width loading margin.
min_top_only_height_diff	FLOAT(15)	Optional – defaults to 0	Minimum top only height difference.
max_leaning_dist	FLOAT(15)	Optional – defaults to 0	Maximum leaning distance.
min_support_required	FLOAT(15)	Optional – defaults to 1	Minimum support required.
max_support_height_diff	FLOAT(15)	Optional – defaults to 0	Maximum support height difference.
priority_for_large_pkgs	INT(10)	Optional – defaults to 0	Priority for large packages.

Column Name	Type	Required? – Default Value	Description
target_num_diff_boxes	INT(10)	Optional – defaults to 0	Target number difference boxes.
min_util_diff_box_target	INT(10)	Optional – defaults to 0	Minimum util difference box target.
volume_vs_weight_factor	FLOAT(15)	Optional – defaults to 1	Volume vs. weight factor.
cog_back_limit_perc	FLOAT(15)	Optional – defaults to 0	Cog back limit percent.
cog_front_limit_perc	FLOAT(15)	Optional – defaults to 0	Cog front limit percent.
cog_left_limit_perc	FLOAT(15)	Optional – defaults to 0	Cog left limit percent.
cog_right_limit_perc	FLOAT(15)	Optional – defaults to 0	Cog right limit percent.
min_num_per_block	INT(10)	Optional – defaults to 1	Minimum number per block.
keep_items_in_one_container	INT(10)	Optional – defaults to 0	Keep items in one container.
manifest_container_type	CHAR(1)	Optional – defaults to N	Used by Warehouse Advantage Adapter For K.Motion Ship to determine if the container type is supported in K.Motion Ship or not. Y signifies that it is supported, N signifies that it is not.

t_container_class

Collection of container types. Container class is used to limit the types of containers considered for cartonizing a block of work in Container Advantage. Pick areas are associated to a container class.

Key/Index Name	Column Name	Clustered	Unique
ui_container_class	wh_id	Y	Y
	container_class		

Column Name	Type	Required? – Default Value	Description
wh_id	NVARCHAR(10)	Required	Warehouse identifier.
container_class	NVARCHAR(30)	Required	Container class identifier.
description	NVARCHAR(50)	Optional	Container class description.

t_container_class_type

Records the relationships between container class and container type.

Key/Index Name	Column Name	Clustered	Unique
ui_container_class	wh_id	Y	Y
	container_class		
	container_type		

Column Name	Type	Required? – Default Value	Description
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
container_class	NVARCHAR(30)	Required	Valid container class. The value matches one of the defined container classes (see table t_container_class).
container_type	NVARCHAR(10)	Required	Valid container type. The value matches one of the defined container types (see table t_container).

t_container_optimize_block

Container Advantage utilizes this table for optimization work.

Key/Index Name	Column Name	Clustered	Unique
pk_container_optimize_block	container_optimize_block_id	N	Y
ui_container_optimize_block	wh_id hu_id order_number cartonization_batch_id container_number packing_sequence	Y	Y

Column Name	Type	Required? – Default Value	Description
container_optimize_block_id	BIGINT IDENTITY(19)	Required	Unique identifier.
wh_id	NVARCHAR(10)	Required	Warehouse identifier.
hu_id	NVARCHAR(22)	Optional	License plate identifier.
order_number	NVARCHAR(30)	Required	Order number.
pick_id	NVARCHAR(50)	Required	Pick identifier.
cartonization_batch_id	NVARCHAR(50)	Required	Cartonization batch identifier. Used to relate records to other tables.
container_number	INT(10)	Required	Container number.
packing_sequence	INT(10)	Required	Packing sequence.
container_type	NVARCHAR(10)	Required	Container type.
item_number	NVARCHAR(30)	Required	Item number.
uom	NVARCHAR(10)	Required	Unit of measure.
pattern	NVARCHAR(20)	Required	Pattern.
num_deep	INT(10)	Required	Number deep.
num_wide	INT(10)	Required	Number wide.
num_high	INT(10)	Required	Number high.
block_length	FLOAT	Required	Length of block.
block_width	FLOAT(15)	Required	Width of block.
block_height	FLOAT(15)	Required	Height of block.
pkg_length_loaded	FLOAT(15)	Required	Loaded length of package.
pkg_width_loaded	FLOAT(15)	Required	Loaded width of package.

Column Name	Type	Required? – Default Value	Description
pkg_height_loaded	FLOAT(15)	Required	Loaded height of package.
depth_coord	FLOAT(15)	Required	Depth coordinate.
width_coord	FLOAT(15)	Required	Width coordinate.
height_coord	FLOAT(15)	Required	Height coordinate.
length_spread	FLOAT(15)	Required	Length spread.
width_spread	FLOAT(15)	Required	Width spread
orientation_number	INT(10)	Required	Orientation number.

t_container_optimize_queue

Container Advantage work queue.

Key/Index Name	Column Name	Clustered	Unique
pk_container_optimize_queue	work_id	N	Y
ix_container_opt_q_priority	priority date_added	Y	N
ix_container_opt_q_retry	retry_count status date_added	N	N
ix_container_opt_get_next	date_started status retry_count priority date_added	N	N

Column Name	Type	Required? – Default Value	Description
work_id	BIGINT IDENTITY(19)	Required	Sequential identifier of the work unit.
date_added	DATETIME(23)	Required – defaults to the current date	Date added
date_started	DATETIME(23)	Optional	Datetime stamp Container Advantage processing started.
date_finished	DATETIME(23)	Optional	Datetime stamp Container Advantage processing completed.

Column Name	Type	Required? – Default Value	Description
retry_count	INT(10)	Optional – defaults to 0	Retry count.
priority	INT(10)	Optional – defaults to 50	Work queue priority.
status	NVARCHAR(30)	Optional – defaults to NEW	Processing status in Container Advantage.
wh_id	NVARCHAR(10)	Required	Warehouse identifier.
hu_id	NVARCHAR(22)	Optional	License plate identifier.
order_number	NVARCHAR(30)	Required	Order number.
cartonization_batch_id	NVARCHAR(50)	Required	Cartonization batch identifier. Used to relate records to other tables.
uom_flag	NVARCHAR(10)	Optional – defaults to 0	Unit of measure flag.
wa_wkq_workers_required	INT(10)	Optional – defaults to 1	Warehouse Advantage work queue workers required.
wa_wkq_work_priority	NVARCHAR(10)	Optional – defaults to 20	Warehouse Advantage work queue priority.

t_container_optimize_status

Container Advantage status.

Key/Index Name	Column Name	Clustered	Unique
pk_container_optimize_status	container_optimize_status_id	N	Y
ui_container_optimize_status	wh_id hu_id order_number cartonization_batch_id	Y	Y

Column Name	Type	Required? – Default Value	Description
container_optimize_status_id	BIGINT IDENTITY(19)	Required	Sequential identifier of the status.
wh_id	NVARCHAR(10)	Required	Warehouse identifier.

Column Name	Type	Required? – Default Value	Description
hu_id	NVARCHAR(22)	Optional	License plate identifier.
order_number	NVARCHAR(30)	Required	Order number.
cartonization_batch_id	NVARCHAR(50)	Required	Cartonization batch identifier. Used to relate records to other tables.
optimize_status	NVARCHAR(8)	Required	Status. Valid values are: NEW RETRY SUCCESS
date_optimized	DATETIME(23)	Optional – defaults to current date	Datetime stamp of Container Advantage optimization.
num_containers	INT(10)	Required	Number of containers.
error_message	TEXT(1073741823)	Optional	Optimization error message.

t_container_optimize_xml

Container Advantage XML.

Key/Index Name	Column Name	Clustered	Unique
pk_container_optimize_xml	container_optimize_xml_id	N	Y
ui_container_optimize_xml	wh_id hu_id order_number cartonization_batch_id container_number	Y	Y

Column Name	Type	Required? – Default Value	Description
container_optimize_xml_id	BIGINT IDENTITY(19)	Required	Sequential identifier of the XML record.
wh_id	NVARCHAR(10)	Required	Warehouse identifier.
hu_id	NVARCHAR(22)	Optional	License plate identifier.
order_number	NVARCHAR(30)	Required	Order number.
cartonization_batch_id	NVARCHAR(50)	Required	Cartonization batch identifier. Used to relate records to other tables.
container_number	INT(10)	Required	Container number.
activex_xml	TEXT(1073741823)	Optional	ActiveX XML.

t_control

Stores values for system control purposes (e.g., creating unique work queue identifiers) and various application flag indicators (e.g., sending transaction information to Advantage Link).

Application Reference: CTL

Key/Index Name	Column Name	Clustered	Unique
pk_control	control_type	Y	Y

Column Name	Type	Required? – Default Value	Description
control_type	NVARCHAR(20)	Required	Parameter or system value.
description	NVARCHAR(30)	Optional	Description of the control type.
next_value	INT(10)	Optional	The next numeric value to use, or an On/Off flag. If used as a flag, valid values are: 0 – Off 1 – On
config_display	NVARCHAR(15)	Not used	
allow_edit	CHAR(1)	Not used	
c1	NVARCHAR(30)	Optional	May contain extra text information related to the control type.
c2	NVARCHAR(30)	Optional	May contain extra text information related to the control type.
f1	FLOAT(15)	Optional	May contain extra numeric information related to the control type.

Base Control Values

These System Control values are maintained in Warehouse Advantage Base Web under System Administration > System Controls.

Control Type	Default Next Value	Default C1	Default F1	Description
ADVLINK	1			Advantage Link installed flag. Determines if transaction information is sent to Advantage Link. Next Value field: 0 – Off 1 – On
ALLOCATION_SLEEP		5		Process Allocation queue sleep time. C1 field indicates how long in seconds this process sleeps between executions.

Control Type	Default Next Value	Default C1	Default F1	Description
ASN_NUMBER	100000 0			ASN number. Next Value field contains the next number the system assigns to an ASN created when a transfer order is shipped.
AUDIT_COST	0			LP Audit Check cost threshold. F1 value is compared to item cost to determine if an audit is required. Next Value field: 0 – Off 1 – On
AUTO_LABEL_PRINT	0			Flag to automatically print labels for label picking after orders have been released. Next Value field: 0 – Off 1 – On Note This option is not available if either Advanced Fulfillment Application or Advantage Fulfillment Optimizer is used.
AUTO RCVR ID	0			Indicates whether the system automatically generates a receiver identifier. Next Value field: 0 – Reuse the last receiver identifier. 1 – Generate a new receiver identifier. Note This option is only available if receiver prompting (“RCVR OVERRIDE”) is not being used.
AUTO_RELEASE_ORDER	1			Flag indicates whether the system automatically releases picking work upon order import. Next Value field: 0 – Off 1 – On Note This is turned off if the system uses either Advanced Fulfillment Application or Advantage Fulfillment Optimizer.
BATCH_COLLECTIVE	1			Determines whether the quantities of an item are picked collectively or sequentially during batch picking. Next Value field: 0 – Sequentially, pick item quantities for one container at a time. 1 – Collectively, the total item quantity for all assigned containers is picked at once.

Control Type	Default Next Value	Default C1	Default F1	Description
BATCH_ID	0			Batch identifier. Next Value field contains the next number the system assigns to a batch during label printing.
BG_PROC_FAIL_SLEEP	0	900		Sleep time of failed BG process. Used by Manifest Premanifest Container process.
BMM INSTALLED	0			This control is created by Billing Management. Indicates whether the system uses Billing Management, which affects transaction processing. Next Value field: 0 – Off 1 – On
CIQLOGGING	0			Container Advantage logging. Next Value field: 0 – Off 1 – On
CLIENT_IDENTIFIER	0			Client identifier. Determines how client information is maintained. Next Value field: 0 – Item master. 1 – C1 field indicates the client/owner attribute tracking. This System Control value is maintained in Warehouse Advantage Base Web under Dynamic Item Attributes.
CONTAINER-OPTIMIZE	0			This control is created by Container Advantage and determines whether the cartonization process is used. Next Value field: 0 – Off 1 – On
CREATE_PKUP_PRIORITY	10			Used by the Create Pickup process. When the scanned LP already has directed pickup work, the priority is bumped up by the amount set in Next Value.
CROSS-DOCK	0			Flag indicates whether to use opportunistic cross docking during putaway. Next Value field: 0 – Off 1 – On

Control Type	Default Next Value	Default C1	Default F1	Description
DB OBJ LOG LEVEL	3			<p>Next Value field indicates database object log level. Used in debugging database stored procedures in external products.</p> <p>Note</p> <p>This should never be set higher than 3 in an active system.</p>
DEFAULT_CONTNR_TYPE		CARTON		Global default container type used for batch container picks. The system uses this option when a warehouse-level default is not defined.
DEFAULT_LABEL_STAGE		S2		Default label staging location. C1 field indicates the default staging location for label picks if a staging location is not assigned to the order.
DEFAULT_PICK_AREA		EACH		Default item pick area. C1 field indicates the default pick area to use when configuring items.
DEFAULT_PRIORITY		10		The default starting priority for orders when using Waveless functionality. Priority rules will add extra time on to this value.
DEFAULT_PROCESSING		60		The base number of minutes that an order will take to process entirely under Waveless functionality. Processing rules will add extra time on to this value.
DETERMINE LINE-LOAD	1			<p>Flag indicates whether to automatically determine the order line to which to apply the loaded item quantity to. Next Value field:</p> <p>0 – Off</p> <p>1 – On</p>
DETERMINE LINE-RCPT	1			<p>Flag indicates whether to automatically determine the order line to which to apply the received item quantity to. Next Value field:</p> <p>0 – Off</p> <p>1 – On</p>
DETERMINE LN-UNLOAD	1			<p>Flag indicates whether to automatically determine the order line to which to apply the unloaded item quantity to. Next Value field:</p> <p>0 – Off</p> <p>1 – On</p>

Control Type	Default Next Value	Default C1	Default F1	Description
DIRECTED LOADING	1			Indicates whether to use system-directed loading. Next Value field: 0 – Prompts the user for only the order number and door. 1 – Prompts the user for each item/LP and door.
DISP_WORK_METRICS	0			Flag indicates whether metrics for a work assignment display during the picking processes. Next Value field: 0 – Off 1 – On
EMP_LOG_INPUT	1			Flag to log Employee input on RF terminals. 0 – Off 1 – On
EVENTADV	0			Flag indicates if Event Advantage is installed. Determines if informational events are sent to Event Advantage. Next Value field: 0 – Off 1 – On
EXPIRED_ORDER_DAYS	30		7	Monitor Expired Orders. Next Value field contains the number of days past the expected ship date when an order is considered expired. F1 value is number of days past expiration to notify of expired orders by creating an exception log entry.
EXPIRED_PO_DAYS	30		7	Monitor Expired POs. Next Value field contains the number of days past the create date when an order is considered expired. F1 value is number of days past expiration to notify of expired orders by creating an exception log entry.
GLOBAL_DB_LOCALE	0	1033		Database server default locale, used by some Warehouse Advantage functions for purposes of data inserts or updates. Note 1033 is the locale ID for English (United States).
GROUP MAX	10000			If Advantage Link for Flat File is installed, Next Value field contains the maximum number of records to include in a Generic Host Interface group set for import processing.

Control Type	Default Next Value	Default C1	Default F1	Description
HJONE_ADMIN_ID	0	B4FC116 6-FFC0- 4B6D		HJOne Admin User ID
HJONE_HASHPASS	0	Klo2d+xv VLatrpNz UYkwU1Q De6o=		HJOne Admin Hash Pass
HJONE_WEB_HOST	0	localhost		HJOne Web Host
HJSHIP_GID_THRE ADS	3			Indicates the maximum amount of threads the Group IDs should be split when sending requests to K.Motion Ship. This is used by Warehouse Advantage Adapter for K.Motion Ship.
HJSHIP_HOST_IP		127.0.0.1		C1 field indicates the IP Address of the host to which the K.Motion Ship requests are sent. Enter the Host IP Address in the following format: http://IPAddress/ This is used by Warehouse Advantage Adapter for K.Motion Ship.
HJSHIP_PRINT_WAIT		30000		C1 field Indicates how long the printing background process "Process HJShip Labels" is called. Default is 30 seconds. This is used by Warehouse Advantage Adapter for K.Motion Ship.
HOLD TILL RCVR CLOSE	0			Indicates when receipt notifications are sent to the host by Advantage Link. Next Value field: 0 – The system sends the receipt notification as soon as inventory is received. 1 – The system sends the receipt notifications when the Receiver is closed.
HU_ID	0		214748 3647	License plate identifier. Next Value field contains the next number the system assigns to a license plate. F1 field contains the maximum value. When the maximum value is reached, the Next Value starts over at 1. Note If you assign one million LPs per day, with the default setting the rollover happens once each 5.9 years.
LABEL_ID	0			Label identifier. Next Value field contains the ID of the last label printed.

Control Type	Default Next Value	Default C1	Default F1	Description
LABEL_PRINTER_ALIAS	0			Bartender printer alias for the default label printer. C1 must correspond to the device name configured in Advantage Commander.
LABEL_SOFTWARE	0	BARTENDER		Flag indicates if the system uses label printing software. C1 indicates the software.
LABORADV	0	EQUIPMENT		Labor Advantage installed. Determines if transaction information is sent to Labor Advantage. Next Value field: 0 – Off 1 – On
LINE_NUMBER	0		2147483647	Line number identifier. Next Value field contains the next number the system assigns to a line number during receiving for receipt information. F1 field contains the maximum value. When the maximum value is reached, the Next Value starts over at 0.
LOAD_ID	0			Load identifier. Next Value field contains the next number the system assigns to a load.
LOGSEND_DB	1	5		Logsend Identifier. Indicates whether messages are displayed in the Application Status Console. Next Value field: 0 – Off 1 – On Note Setting next_value to 0 will not deactivate the background process. C1 field indicates sleep time. Updating this field changes how long the background process waits before starting up again.
MIXEDLOGON	0			Indicates whether to allow mixed logon policy when set up for Windows Security (Security Policy 2). Next Value field: 0 – Off 1 – On

Control Type	Default Next Value	Default C1	Default F1	Description
OPPORTUNISTICCC	0	NO_COUNT		<p>Indicates whether opportunistic cycle counting occurs during picking. Next Value field indicates the threshold (0 means a count occurs when the quantity in the location reaches zero). C1 field indicates how the count is performed.</p> <p>GENERATE_COUNT—Generate a CC work queue.</p> <p>IMMEDIATE_COUNT—Count the location immediately.</p> <p>NO_COUNT—No cycle count.</p>
OPTIMIZER	0			<p>AFO installed. Indicates whether the system uses Advantage Fulfillment Optimizer, which affects the outbound order import process. Next Value field:</p> <p>0 – Off</p> <p>1 – On</p>
OPTIMIZER_HOST_NAME	0	localhost		Location of the container optimizer web service.
OPTIMIZER_MAX_RETRY	3			Number of retry attempts the container optimization process will execute to get a successful result from the web service.
OPTIMIZER_TIMEOUT	120			Maximum timeout wait time (in seconds) for the container optimization process to receive a result from the web service.
ORDER_CONSOLIDATION	0			<p>Indicates whether the system uses order consolidation.</p> <p>Next Value field:</p> <p>0 – Off</p> <p>1 – On</p>
ORDER_CONS_PREFIX		CONS-		Prefix for order consolidation order number.

Control Type	Default Next Value	Default C1	Default F1	Description
PACKING SLIPS	0	ORDER		Next Value determines when the system prompts the user to print Packing Slip and BOL reports. Next Value field: 0 – After loading and a successful load audit 1 – After picking is complete C1 field determines the type of packing slip: HU – pallet level ORDER – order level
PM_LOC_SEARCH_SLEEP		300		Planned Move location search for NULL pick locations sleep time. C1 field indicates how long in seconds this background process sleeps between executions.
PP_LOC_SEARCH_SLEEP		1		Planned Pick location search for NULL pick locations sleep time. C1 field indicates how long in seconds this background process sleeps between executions.
PRINT_BATCH_ID	1			Print Batch identifier. Next Value field contains the next number the print engine assigns to a batch of labels.
PROMPT_PICK_AREA	1			Flag determines whether the system prompts the user for Pick Area at the beginning of the picking processes. Next Value field: 0 – Uses pick area assigned to the employee 1 – Prompts user for pick area
RCV ITEM NOT ON PO	0			Flag determines whether a user can receive an item against an inbound order if the item is not in that order's line items. Next Value field: 0 – Off 1 – On
RCVR OVERRIDE	1			Receiver prompting. Determines whether the user is prompted for the Receiver identifier. Next Value field: 0 – Off 1 – On
RECPT OVERAGE	0			Receipt overage percent allowed. Determines the maximum quantity that can be received for an item on an inbound order (10 = 10% over-receipt is allowed).

Control Type	Default Next Value	Default C1	Default F1	Description
REOPEN_PO	0			Flag indicates whether an inbound order can be reopened once closed. Next Value field: 0 – Off 1 – On
REPLAN_CONTNR_TYPE		CARTON		Default container type used when a pick is replanned for batch picking.
REPORT_SOLUTION	0	Körber One Report		The system reporting solution C1 field indicates which report solution is installed. C1 field: Körber One Report BusinessObjects
SHOW_ASN_NBR		SHOW		Indicates if the ASN number field is displayed on web pages in WA Base Web and Advantage Dashboard. C1 field: NO SHOW SHOW
SHOW_CLIENT_CODE		NO SHOW		Indicates if the client code field is displayed on web pages in WA Base Web and Advantage Dashboard, and in receiving processes Receipt of Inbound Order, Directed Receipt, Staged Receipt, and Unknown Receipt. C1 field: NO SHOW SHOW
SHOW_DISP_ASN_NBR		NO SHOW		Indicates if the display ASN number field is displayed on web pages in WA Base Web and Advantage Dashboard. C1 field: NO SHOW SHOW
SHOW_DISP_ITEM_NBR		NO SHOW		Indicates if the display item number field is displayed on web pages in WA Base Web and Advantage Dashboard. C1 field: NO SHOW SHOW
SHOW_DISP_ORDER_NBR		NO SHOW		Indicates if the display order number field is displayed on web pages in WA Base Web and Advantage Dashboard. C1 field: NO SHOW SHOW

Control Type	Default Next Value	Default C1	Default F1	Description
SHOW_DISP_PO_NBR		NO SHOW		Indicates if the display po number field is displayed on web pages in WA Base Web and Advantage Dashboard. C1 field: NO SHOW SHOW
SHOW_ITEM_NBR		SHOW		Indicates if the item number field is displayed on web pages in WA Base Web and Advantage Dashboard. C1 field: NO SHOW SHOW
SHOW_ORDER_NBR		SHOW		Indicates if the order number field is displayed on web pages in WA Base Web and Advantage Dashboard. C1 field: NO SHOW SHOW.
SHOW_PO_NBR		SHOW		Indicates if the po number field is displayed on web pages in WA Base Web and Advantage Dashboard. C1 field: NO SHOW SHOW
TRAN_LOG_SLEEP		5		Process Transaction Log sleep time. C1 field indicates how long in seconds this process sleeps between executions.
TRANSFERS	0		214748 3647	Transfer Order number. Next Value field contains the next number the system assigns to a transfer order prefixed with TO-. F1 field contains the maximum value. When the maximum value is reached, the Next Value starts over at 1.
UNKCARTON	1			Container Advantage unknown container handling. Next Value field determines how cartonization handles items for which no container can be determined. 0 – System errors if unable to cartonize items. 1 – System assigns items that were not cartonized to an “unknown” carton.
VALIDATE_EQUIPMENT	0			Flag indicates whether the equipment a user logs onto is validated. Next Value field: 0 – Off 1 – Equipment must be assigned to the employee in t_emp_equipment

Control Type	Default Next Value	Default C1	Default F1	Description
WA_TEST_MODE	0			This control type is used in Product Development's automated testing efforts. This flag is not used in production. C1 field indicates how long this process sleeps between executions. Next Value field: 0 – Off 1 – On
WAVE_ID	0			Wave identifier. If the system uses Advanced Fulfillment Application, Next Value field contains the next number the system assigns to a Wave.
WAVELESS	0			Toggle for Waveless functionality. Next Value field: 0 – Off 1 - On
WAVELESS_CUTOFF_DELAY	0	120		Number of minutes the Waveless process waits after a cutoff time has passed before recalculating to the next best cutoff time. Default is 120.
WAVELESS_SLEEP	0	300		Number of seconds the Waveless process sleeps between executions. Default is 300.
WEB_HOST_IP	0	localhost		This control type is used for clients that need to display images or URL's. C1 – Holds the ip address the web terminal gateway resides.
INBOUND_OUTSORT	0			Allows to sort what is being received by Item Number and Putaway Class
PURGE_PUTAWAY_LISTEN	1			Control value to delete the records in t_putaway_listener with status C since they were added. Next value field contains the time in hours F1 – the time in hours to delete the records in t_putaway_listener with status E
PUTAWAY_LISTEN_SLEEP	1	60		Number of seconds the Putaway Listener process sleeps between executions. Default is 60.

t_country

Stores countries.

Key/Index Name	Column Name	Clustered	Unique
pk_country	country_id	Y	Y

ui_country_name	country_name	N	Y
ui_country_abbr	country_abbr	N	Y
ui_country_code	country_code	N	Y

Column Name	Type	Required? – Default Value	Description
country_id	INT IDENTITY(10)	Required	Unique identifier.
country_name	NVARCHAR(50)	Required	Complete country name.
country_abbr	NVARCHAR(10)	Required	Country name abbreviation.
country_code	NVARCHAR(2)	Required	Country code.

t_customer

Stores customer information.

Key/Index Name	Column Name	Clustered	Unique
pk_customer	customer_id	Y	Y
ui_customer_code	customer_code	N	Y

Column Name	Type	Required? – Default Value	Description
customer_id	INT IDENTITY(10)	Required	Unique identifier.
customer_code	NVARCHAR(30)	Required	Customer code.
customer_name	NVARCHAR(30)	Required	Customer name.
customer_addr1	NVARCHAR(30)	Optional	Address line 1.
customer_addr2	NVARCHAR(30)	Optional	Address line 2.
customer_addr3	NVARCHAR(30)	Optional	Address line 3.
customer_city	NVARCHAR(30)	Required	City.
customer_state	NVARCHAR(6)	Required	State/region.
customer_zip	NVARCHAR(10)	Required	Postal code.
customer_country_code	NVARCHAR(5)	Optional	Country code.
customer_country_name	NVARCHAR(30)	Optional	Country name.
customer_phone	NVARCHAR(30)	Optional	Phone number.
customer_email	NVARCHAR(30)	Optional	Email address.
customer_category	NVARCHAR(30)	Optional	User defined customer categories.
customer_priority	NVARCHAR(2)	Optional	User defined customer priority. Typically used to indicate preferred customers.
customer_ship_method	NVARCHAR(30)	Optional	Preferred shipping method for the customer.
customer_route	NVARCHAR(10)	Optional	Customer route.
wh_id	NVARCHAR(10)	Optional	Warehouse identifier.

t_emp_equipment

Stores information about employees and their assigned equipment. The VALIDATE_EQUIPMENT Control setting determines whether this table is used.

Key/Index Name	Column Name	Clustered	Unique
pk_emp_equipment	employee_id location_id wh_id	Y	Y

Column Name	Type	Required? – Default Value	Description
employee_id	NVARCHAR(10)	Required	Employee identifier. The value matches one of the defined Employee IDs.
location_id	NVARCHAR(50)	Required	Location identifier for the equipment. The value matches one of the defined locations for the location type F (forklift).
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.

t_emp_input_log

Stores employee inputs on RF terminals. The EMP_LOG_INPUT Control setting determines whether this table is used.

Application Reference: EIL

Key/Index Name	Column Name	Clustered	Unique
pk_emp_input_log	input_id	Y	Y

Column Name	Type	Required? – Default Value	Description
input_id	INT IDENTITY(10)	Required	Unique identifier.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
id	NVARCHAR(10)	Required	Employee identifier. The value matches one of the defined Employee IDs.
name	NVARCHAR(30)	Required	Employee name.
device	NVARCHAR(30)	Optional	Terminal device an employee is logged on to.
fork_id	NVARCHAR(30)	Optional	Location identifier for fork location.
solution	NVARCHAR(30)	Optional	Solution Environment.
prompt_date	DATETIME	Required	Date when employee was prompted.

Column Name	Type	Required? – Default Value	Description
input_date	DATETIME	Optional	Date when the employee responded to prompt.
dialog_type	NVARCHAR(10)	Optional	Dialog Type
scr_heading	NVARCHAR(32)	Optional	SCR Heading
scr_help	NVARCHAR(120)	Optional	SCR Help
sys_shortmsg	NVARCHAR(20)	Optional	Short message
dialog_prompt	NVARCHAR(100)	Optional	Dialog prompt
dialog_field	NVARCHAR(100)	Optional	Dialog Field
scr_options	NVARCHAR(80)	Optional	Dialog Options
user_input	NVARCHAR(100)	Optional	User's response.
json_string	NVARCHAR(MAX)	Optional	JSON String for the screen.

t_emp_input_log_holding

Temporary holding table for employee inputs. The EMP_LOG_INPUT Control setting determines whether this table is used.

Application Reference:EILH

Key/Index Name	Column Name	Clustered	Unique
pk_emp_input_log_holding	input_id	Y	Y

Column Name	Type	Required? – Default Value	Description
input_id	INT IDENTITY(10)	Required	Unique identifier.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
id	NVARCHAR(10)	Required	Employee identifier. The value matches one of the defined Employee IDs.
name	NVARCHAR(30)	Required	Employee name.
device	NVARCHAR(30)	Optional	Terminal device an employee is logged on to.
fork_id	NVARCHAR(30)	Optional	Location identifier for fork location.
solution	NVARCHAR(30)	Optional	Solution Environment.
prompt_date	DATETIME	Required	Date when employee was prompted.
input_date	DATETIME	Optional	Date when the employee responded to prompt.

Column Name	Type	Required? – Default Value	Description
dialog_type	NVARCHAR(10)	Optional	Dialog Type
scr_heading	NVARCHAR(32)	Optional	SCR Heading
scr_help	NVARCHAR(120)	Optional	SCR Help
sys_shortmsg	NVARCHAR(20)	Optional	Short message
dialog_prompt	NVARCHAR(100)	Optional	Dialog prompt
dialog_field	NVARCHAR(100)	Optional	Dialog Field
scr_options	NVARCHAR(80)	Optional	Dialog Options
user_input	NVARCHAR(100)	Optional	User's response.
json_string	NVARCHAR(MAX)	Optional	JSON String for the screen.

t_emp_work_type

Stores each work type that an employee is assigned when using Task Interleaving.

Application Reference: EWT

Key/Index Name	Column Name	Clustered	Unique
pk_emp_work_type	id work_types_id	Y	Y
i_emp_work_type_work_types_id	work_types_id	N	N
fk_emp_work_type_employee	t_employee (id)		
fk_emp_work_type_work_types	t_work_types (work_types_id)		

Column Name	Type	Required? – Default Value	Description
id	NVARCHAR(10)	Required	Employee ID.
work_types_id	INT(10)	Required	Work Type ID from the t_work_types table.

t_employee

Stores information about employees, including the equipment the employee has logged on to and the menu level to display to the employee.

Application Reference: EMP

Key/Index Name	Column Name	Clustered	Unique
pk_employee	employee_id	Y	Y
ui_employee	id	N	Y
i_employee_empid_name	employee_id, name	N	N

Column Name	Type	Required? – Default Value	Description
employee_id	INT IDENTITY(10)	Required	Unique identifier.
id	NVARCHAR(10)	Required	Employee ID.
name	NVARCHAR(30)	Optional	Employee name.
password	NVARCHAR(5)	Optional	Employee password.
emp_number	NVARCHAR(9)	Optional	Employee number.
function_code	NVARCHAR(5)	Not used	
dept	NVARCHAR(11)	Optional	Department name. Informational only
supervisor	NVARCHAR(30)	Optional	Employee's supervisor. Informational only
menu_level	NVARCHAR(30)	Required	Determines which menu structure is displayed to the employee. Matches the menu_level column of the t_menu table.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
work_q_id	NVARCHAR(30)	Not used	
status	NVARCHAR(1)	Optional – defaults to A	Employment status. A user's status must be "A" to sign on to the system. Valid values are: A – Active I – Inactive L – Leave T – Terminated V – Vacation
return_date	DATETIME(23)	Optional	If employee is on vacation or leave, the planned date of return. Informational only.
hu_id	NVARCHAR(22)	Not used	

Column Name	Type	Required? – Default Value	Description
zone	NVARCHAR(10)	Not used	
temp_menu_level	NVARCHAR(30)	Optional	Temporary override of menu_level. Matches the menu_level column of the t_menu table. If set, this menu structure is the one displayed to the employee.
device	NVARCHAR(30)	Optional	Terminal device an employee is logged on to.
current_location	NVARCHAR(50)	Not used	
log_id	NVARCHAR(10)	Not used	
priority_threshold	NVARCHAR(2)	Optional	Each user's threshold. Pure Priority based = "00". Pure Proximity based = "99". All available tasks over the threshold will be completed first by priority then by proximity.
hours_into_future	INT(10)	Optional – defaults to 12	The number of hours into the future to look for available tasks.
sp_return	NVARCHAR(50)	Optional	Temporary field for Stored Procedures to interact with the application.
locale_id	INT(10)	Optional – defaults to 1033	Used to set the locale for an employee. The locale determines language and decimal separator as well as date and time formats. The default value 1033 equals the English (United States) locale.
user_id	NVARCHAR(30)	Optional	Required if using Windows Security (Security Policy 2) or LDAP Security (Security Policy 3). This is the employee's network user name (Windows/LDAP login name).
user_domain	NVARCHAR(30)	Optional	Required if using Windows Security (Security Policy 2). This is the Windows network domain associated with the employee's user_id.
audit_required	NVARCHAR(1)	Optional	Audit required. Used to determine whether picked license plates for this employee need to be audited.
work_shift	NVARCHAR(30)	Optional	Work shift for the employee. Used with Labor Advantage.
pick_area	NVARCHAR(10)	Optional	Pick Area the employee is allowed to pick in.

Column Name	Type	Required? – Default Value	Description
team_flag	NVARCHAR(1)	Optional – defaults to N	Team flag. Indicates whether this employee record is for a team identifier. Used with Labor Advantage. Valid values are: N – No Y – Yes
goal_time_flag	NVARCHAR(1)	Optional – defaults to N	Goal time flag. Determines if goal time is displayed to the employee. Used with Labor Advantage. Valid values are: N – No Y – Yes
log_input_flag	NVARCHAR(1)	Optional – defaults to N	Employee input flag. Determines if the inputs on RF terminals should be logged. N – No Y – Yes
web_wise_menu_level	NVARCHAR(60)	Optional	The WebWise menu level for the employee. Used by Centralized User Management.
hjne_culture_id	NVARCHAR(30)	Optional	The culture identifier for the user to be used in the Körber One Workspace. Used with User Management.
hjne_user_id	UNIQUEIDENTIFIER	Optional	The identifier of the user in the Körber One Workspace. Used with User Management.
hjne_hashpass	NVARCHAR(36)	Optional	The hashed password set up for the user in Körber One Workspace. Used with User Management.
hjne_json	NVARCHAR(MAX)	Optional	The JSON string used to create/update the user in Körber One Workspace. Used with User Management.
hjne_logon_change_pass	NVARCHAR(5)	Optional – Defaults to true	The flag to determine whether the user should be prompted to change their password the next time they login to Körber One. Used with User Management. Valid values: true false

Column Name	Type	Required? – Default Value	Description
access_sca	NVARCHAR(3)	Optional – Defaults to Yes	The flag that grants access to the user for Supply Chain Advantage menu levels and roles. Used with User Management. Valid Values: Yes No
access_ac	NVARCHAR(3)	Optional – Defaults to No	The flag that grants access to the user for Advantage Commander menu levels and roles. Used with User Management. Valid Values: Yes No
access_inmotion	NVARCHAR(3)	Optional – Defaults to No	The flag that grants access to the user for SCA inMotion device setup and role. Used with User Management. Valid Values: Yes No
device_type	NVARCHAR(50)	Optional	Used for Voice. The type of device a user logon.
language_code	NVARCHAR(10)	Optional	Used for Voice. The last language code ex en_US.
last_message_id	NVARCHAR(100)	Optional	Used for Voice. The last message id from Voice.
last_message_dt	DATETIME	Optional	Used for Voice. The last message date time from Voice.
last_response	XML	Optional	Used for Voice. The last response from Voice.
last_response_dt	DATETIME	Optional	Used for Voice, The last response date time from Voice.
last_loc_id	NVARCHAR(50)	Optional	The last location user was in.
region_number	INTEGER	Optional	Region is what Voice uses to tie a Zone and Pick area together under a numeric value that is easily spoken.
business_process	NVARCHAR(100)	Optional	The last Business Process used.
last_process	NVARCHAR(100)	Optional	Used for Voice. The last procedure called.
last_tran_start_datetime	DATETIME	Optional	The date time of the last transaction start.

Column Name	Type	Required? – Default Value	Description
last_tran_end_datetime	DATETIME	Optional	The date time of the last transaction end.
last_menu_item	NVARCHAR(100)	Optional	The last menu process the user weas in.

t_employee_logon

Stores employee logon/logout information.

Application Reference: ELG

Key/Index Name	Column Name	Clustered	Unique
i_employee_logon	logon_start_date tran_type	N	N
i_employee_logon_loc_employee	location_id employee_id tran_type logon_start_date logon_end_date	N	N

Column Name	Type	Required? – Default Value	Description
tran_type	CHAR(3)	Optional – defaults to 100	Transaction code.
description	NVARCHAR(50)	Optional – defaults to System Login Transaction	Transaction description.
logon_start_date	DATETIME(23)	Required – defaults to 1/1/1900	Logon start date.
logon_start_time	DATETIME(23)	Required – defaults to 1/1/1900	Logon start time.
logon_end_date	DATETIME(23)	Optional – defaults to 1/1/1900	Logon end date.
logon_end_time	DATETIME(23)	Optional – defaults to 1/1/1900	Logon end time.
employee_id	NVARCHAR(10)	Required	Employee identifier.

Column Name	Type	Required? – Default Value	Description
control_number	NVARCHAR(30)	Optional	Control number for the transaction. Set to the user's fork location.
location_id	NVARCHAR(50)	Optional	Location identifier for the transaction. Set to the user's fork location.
outside_id	NVARCHAR(10)	Not used	
wh_id	NVARCHAR(10)	Required	Warehouse identifier.
verify_status	CHAR(1)	Not used	
routing_code	NVARCHAR(30)	Optional	Informational only.
employee_id_2	NVARCHAR(10)	Not used	
logon_time	INT(10)	Optional – defaults to 0	Elapsed logon time in seconds. Calculated when the employee logs out.
device	NVARCHAR(30)	Required	Terminal device the employee logged in on.

t_employee_password

Stores employee password information.

Application Reference: EPW

Key/Index Name	Column Name	Clustered	Unique
pk_employee_password	password_id	Y	Y
fk_employee_id	t_employee (employee_id)		
i_employee_id	employee_id	N	N
i_employee_password	employee_id, password	N	N

Column Name	Type	Required? – Default Value	Description
password_id	INTEGER IDENTITY	Required	Password identifier.
password	NVARCHAR(84)	Required	Encrypted employee password.
datetime_set	DATETIME	Optional	Password set datetime.
employee_id	INTEGER	Required	Employee id.
expired	NVARCHAR(5)	Optional – defaults to False	Indication of whether this password is expired or not.

t_employee_prod_stds

Stores employee-specific productivity standards for labor management.

Column Name	Type	Required? – Default Value	Description
employee_id	NVARCHAR(10)	Optional	Employee ID number.
tran_type	NVARCHAR(3)	Optional	Transaction code.
fixed_std	NUMERIC(18,0)	Optional	Fixed (engineered) standard.
dynamic_std	NUMERIC(18,0)	Optional	Dynamic (calculated) standard.
dynamic_std_date	DATETIME(23)	Optional	Date dynamic standard was last calculated.

t_equipment_log

Stores log information for an equipment audit.

Key/Index Name	Column Name	Clustered	Unique
pk_equipment_log	log_id	Y	Y
i_equipment_log_equipment_type	equipment_type	N	N
i_equipment_log_rule_id	rule_id	N	N
fk_equipment_log_equipment_type	t_equipment_class (equipment_type)		
fk_equipment_log_rule_id	t_equipment_rules (rule_id)		

Column Name	Type	Required? – Default Value	Description
log_id	INT IDENTITY(1,1)	Required	Unique identifier.
wh_id	NVARCHAR(10)	Required	The warehouse identifier.
equipment_type	INT	Required	The equipment type identifier.
rule_id	INT	Required	The rule identifier.
rule_name	NVARCHAR(50)	Optional	The name of the rule.
user_id	NVARCHAR(10)	Optional	The user that audited the equipment.
equipment_id	NVARCHAR(50)	Optional	The identifier of the equipment audited.
expected_response	NVARCHAR(10)	Optional	The expected response for the audit rule.
response	NVARCHAR(100)	Optional	The user's response for the audit rule.
log_date	DATETIME	Optional - Default GETDATE()	The date an equipment audit log was recorded.

t_equipment_rules

Stores the equipment rules available for an equipment audit.

Key/Index Name	Column Name	Clustered	Unique
pk_equipment_rules	rule_id	Y	Y

Column Name	Type	Required? – Default Value	Description
rule_id	INT IDENTITY(1,1)	Required	Unique identifier.
rule_name	NVARCHAR(50)	Optional	The name of the rule.
screen_text	NVARCHAR(40)	Optional	The screen text displayed for a rule.
response_type	NVARCHAR(20)	Required	Valid response types are RESPONSE – Prompt dialog expecting Y or N response. CONFIRM – Confirm dialog with no expected response. TEXT – Prompt dialog expecting any response.

t_equipment_rule_prompt

Stores the prompting information for equipment rules for an equipment audit.

Key/Index Name	Column Name	Clustered	Unique
pk_equipment_rule_prompt	rule_prompt_id	Y	Y
i_rule_prompt_equipment_type	equipment_type	N	N
i_rule_prompt_rule_id	rule_id	N	N
fk_rule_prompt_equipment_type	t_equipment_class (equipment_type)		
fk_rule_prompt_rule_id	t_equipment_rules (rule_id)		

Column Name	Type	Required? – Default Value	Description
rule_prompt_id	INT IDENTITY(1,1)	Required	Unique identifier.
equipment_type	INT	Required	The equipment type identifier.
sequence	INT	Optional	The prompt sequence of the rules.
status	NVARCHAR(10)	Optional	Valid statuses are Inactive Active
rule_id	INT	Required	The rule identifier.

Column Name	Type	Required? – Default Value	Description
expected_response	NVARCHAR(3)	Optional	Valid values are Yes No NULL
hard_stop	NVARCHAR(5)	Optional	Valid values are True False

t_equipment_class

Stores the equipment types available for an equipment audit.

Key/Index Name	Column Name	Clustered	Unique
pk_equipment_type	equipment_type	Y	Y

Column Name	Type	Required? – Default Value	Description
equipment_type	INT IDENTITY(1,1)	Required	Unique identifier.
class	NVARCHAR(10)	Optional	Class name for equipment type.
description	NVARCHAR(150)	Optional	Description of the equipment type.

t_exception_log

Stores information logged when an exception to the normal process flow occurs. Regular review of this information helps identify trends in workflow and diagnose possible system usage errors.

Application Reference: XLG

Column Name	Type	Required? – Default Value	Description
exception_id	INT IDENTITY(10)	Required	Unique identifier.
tran_type	NVARCHAR(5)	Required	Exception code.
description	NVARCHAR(50)	Optional	Description of exception.
exception_date	DATETIME(23)	Optional	Date of exception.
exception_time	DATETIME(23)	Optional	Time of exception.
employee_id	NVARCHAR(10)	Optional	Employee ID.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
suggested_value	NVARCHAR(20)	Optional	The value that was suggested or expected.

Column Name	Type	Required? – Default Value	Description
entered_value	NVARCHAR(20)	Optional	The value that was entered.
location_id	NVARCHAR(50)	Optional	Location of exception.
item_number	NVARCHAR(30)	Optional	Item number involved in exception.
lot_number	NVARCHAR(15)	Optional	Lot number of item involved in exception.
quantity	FLOAT(15)	Optional – defaults to 0	Quantity involved in exception.
hu_id	NVARCHAR(22)	Optional	License plate identifier involved in exception.
load_id	NVARCHAR(30)	Optional	Load identifier involved in exception.
control_number	NVARCHAR(30)	Optional	Control number involved in exception.
line_number	NVARCHAR(5)	Optional	Line number involved in exception.
tracking_number	NVARCHAR(30)	Optional	Tracking number involved in exception.
error_code	NVARCHAR(10)	Optional	Error code.
error_message	NVARCHAR(1000)	Optional	Error message.
status	NVARCHAR(10)	Optional	Valid values are: CLOSED NEW

t_file

Used to store file configuration information used in creating labels for Bartender to print.

Key/Index Name	Column Name	Clustered	Unique
pk_file	file_name	N	Y

Column Name	Type	Required? – Default Value	Description
file_name	NVARCHAR(15)	Required	Unique and meaningful name for the file configuration.
extension	NVARCHAR(5)	Required	Name of the extension for the generated file.
temp_dir	NVARCHAR(100)	Required	The folder location for the file while it is being built. The path name must end with a backslash (\).
final_dir	NVARCHAR(100)	Required	The folder location for the file when it is complete. The path name must end with a backslash (\).

t_format_validation

Used to store format validation field types and patterns.

Key/Index Name	Column Name	Clustered	Unique
pk_format_validation	format_validation_id	Y	Y
ui_format_validation	wh_id field_type	N	Y
i_index_format_validation	wh_id field_type format_validation_id status		
fk_format_validation_wh_id	t_whse (wh_id)		

Column Name	Type	Required? – Default Value	Description
format_validation_id	INT IDENTITY	Required	Unique identifier for the row.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
field_type	NVARCHAR(30)	Required	Name of field to be used for validation.
pattern	NVARCHAR(MAX)	Optional	Pattern to be search for in field_type.
status	NVARCHAR(8)	Required defaults to Active	Valid values: Active – available to be used. Inactive – not available to be used.

t_format_validation_override

Used to store format validation override field types and patterns tied to transactions.

Key/Index Name	Column Name	Clustered	Unique
pk_format_validation_override	format_validation_override_id	Y	Y
ui_format_validation_override	format_validation_id tran_type	N	Y
i_index_format_validation_override	status format_validation_id format_validation_override_id		
fk_fv_override_format_validation_id	t_format_validation (format_validation_id)		

Column Name	Type	Required? – Default Value	Description
format_validation_override_id	INT IDENTITY	Required	Unique identifier for the row.
format_validation_id	INT(10)	Required	Unique identifier for format validation.
tran_type	NVARCHAR(3)	Required	Process transaction type.
pattern	NVARCHAR(MAX)	Optional	Pattern to be search for in field_type.
status	NVARCHAR(8)	Required defaults to Active	Valid values: Active – available to be used. Inactive – not available to be used.

t_freight_class

Used to define freight classes for items.

Key/Index Name	Column Name	Clustered	Unique
pk_freight_class	freight_class_id	Y	Y
ui_freight_class	name	N	Y

Column Name	Type	Required? – Default Value	Description
freight_class_id	INT IDENTITY(10)	Required	Unique identifier.
freight_class_number	NVARCHAR(50)	Required	Industry identifier.
name	NVARCHAR(50)	Required	Name.
description	NVARCHAR(200)	Optional	Description.

t_fwd_pick

Stores information about locations used for forward picking lines, including their replenishment levels and quantities.

Application Reference: FWP

Key/Index Name	Column Name	Clustered	Unique
pk_fwd_pick	item_number location_id wh_id uom	Y	Y
ui_fwd_pick	wh_id location_id item_number uom stored_attribute_id	N	Y
i_fwd_pick_location_id_wh_id	location_id wh_id	N	N
i_fwd_pick_stored_attribute_id	stored_attribute_id	N	N
fk_fwd_pick_location	t_location (location_id, wh_id)		
fk_fwd_sto_attr_id	t_sto_attr_collection_master (stored_attribute_id)		

Column Name	Type	Required? – Default Value	Description
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
location_id	NVARCHAR(50)	Required	Valid location identifier for the pick location.
item_number	NVARCHAR(30)	Required	Valid item identifier for the item assigned to the pick location.
uom	NVARCHAR(10)	Required	Unit of Measure stored in the pick location.
tolerance_percent	INT(10)	Optional – defaults to 20	The percentage of quantity allowed over or under the planned pick quantity.
minimum_trigger_qty	FLOAT(15)	Required	The minimum quantity in a location before a replenishment is triggered.
maximum_replenishment_qty	FLOAT(15)	Required	The maximum replenishment quantity allowed in the location.
default_priority	NVARCHAR(10)	Optional – defaults to 30	The default priority used when creating the replenishment request. (Unless the default priority for the work type in t_work_types is higher.)

Column Name	Type	Required? – Default Value	Description
calculate_qty_flag	NVARCHAR(3)	Optional – defaults to NO	Valid values are: NO – Replenishment quantity equals maximum_replenishment_qty. YES – Replenishment quantity is calculated (max quantity - current inventory quantity).
stored_attribute_id	BIGINT(19)	Optional	Stored Attribute Collection identifier specified for this pick location if the assigned item uses Dynamic Item Attributes and the location should be restricted to a set of attribute values.

t_gen_attrib_leg_map

Used for Dynamic Item Attributes to temporarily store the attribute legacy map attribute identifier and related exceptions.

Column Name	Type	Required? – Default Value	Description
generic_attribute_id	INT IDENTITY(10)	Required	Unique identifier.
generic_attribute_name	NVARCHAR(30)	Optional	Name.
attribute_exception	CHAR(1)	Optional	Exception.
generic_attribute_value	INT(10)	Optional	Value.

t_hazard_detail

Stores information about hazardous materials.

Key/Index Name	Column Name	Clustered	Unique
pk_hazard_detail	wh_id hazard_code sequence	Y	Y

Column Name	Type	Required? – Default Value	Description
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
hazard_code	NVARCHAR(10)	Required	Hazard code. Field used to specify the hazard code or UNC. Usually coincides with the hazard code from the t_item_master table.

Column Name	Type	Required? – Default Value	Description
sequence	INT (10)	Required	Used to sequence the hazard codes in a logical order.
type	NVARCHAR(1)	Required	Type of hazard.
description	NVARCHAR(200)	Optional	Description of hazard.

t_hazard_master

Stores information about hazardous materials.

Key/Index Name	Column Name	Clustered	Unique
pk_hazard_master	wh_id hazard_code	Y	Y

Column Name	Type	Required? – Default Value	Description
wh_id	NVARCHAR(10)	Required	Warehouse identifier.
hazard_code	NVARCHAR(10)	Required	Hazard code. Field used to specify the hazard code or UNC code. Usually coincides with the hazard code from the t_item_master table.
short_description	NVARCHAR(20)	Optional	Short description of hazard. Short description used for display purposes.

t_hazard_mix

Stores hazardous material mixing information.

Key/Index Name	Column Name	Clustered	Unique
pk_hazard_mix	wh_id hazard_code mix_with_hazard_code	Y	Y

Column Name	Type	Required? – Default Value	Description
wh_id	NVARCHAR(10)	Required	Warehouse identifier.
hazard_code	NVARCHAR(10)	Required	Hazard code. Field used to specify the Hazard Code or UNC code. Usually coincides with the hazard code from the t_item_master table.
mix_with_hazard_code	NVARCHAR(10)	Required	Mix with hazard code. Specifies the other hazard codes that can be mixed together.

t_hjone_application

Stores information about the Körber One mPage applications. Used with User Management.

Key/Index Name	Column Name	Clustered	Unique
pk_hjone_application	application_id	Y	Y

Column Name	Type	Required? – Default Value	Description
application_id	NVARCHAR(100)	Required	The name of the Körber One mPage application.
identity_claim_id	NVARCHAR(36)	Required	The identifier of the Menu Level identity claim for the Körber One mPage application.

t_hjone_inmotion

Stores information about the SCA inMotion identity claims. Used with User Management.

Key/Index Name	Column Name	Clustered	Unique
pk_hjone_inmotion	description	Y	Y
ui_inmotion_desc_identityclaim	description identity_claim_id	N	Y

Column Name	Type	Required? – Default Value	Description
description	NVARCHAR(30)	Required	The description of the SCA inMotion identity claims.
identity_claim_id	NVARCHAR(36)	Required	The identifier of the identity claim for SCA inMotion.

t_hjone_inmotion_assignments

Stores information about the inmotion identity claim values assigned to employees. Used with User Management.

Key/Index Name	Column Name	Clustered	Unique
pk_hjone_assignments	description employee_id	Y	Y
fk_inmotion_employee_id	t_employee (employee_id)		
fk_inmotion_description	t_hjone_inmotion (description)		

Column Name	Type	Required? – Default Value	Description
hjne_inmotion_value	NVARCHAR(50)	Optional	The value for the SCA inMotion identity claim associated with the employee.
description	NVARCHAR(30)	Required	The description of the SCA inMotion identity claims.
employee_id	INTEGER	Required	The employee identifier.

t_hjne_menu_level

Stores information about the menu levels used by Körber One mPage applications. Used with User Management.

Key/Index Name	Column Name	Clustered	Unique
pk_app_menu_level	hjne_menu_level application_id	Y	Y
fk_menu_level_app_id	t_hjne_application (application_id)		

Column Name	Type	Required? – Default Value	Description
hjne_menu_level	NVARCHAR(30)	Required	The name of the menu level for a Körber One mPage application.
application_id	NVARCHAR(100)	Required	The name of the Körber One mPage application.

t_hjne_menu_level_assignments

Stores information about the menu levels assigned to employees. Used with User Management.

Key/Index Name	Column Name	Clustered	Unique
pk_menu_level_assignments	hjne_menu_level application_id employee_id	Y	Y
fk_ml_employee_id	t_employee (employee_id)		
fk_app_menulevel	t_hjne_menu_level (application_id, hjne_menu_level)		

Column Name	Type	Required? – Default Value	Description
hjne_menu_level	NVARCHAR(30)	Required	The name of the menu level for a Körber One mPage application.

Column Name	Type	Required? – Default Value	Description
application_id	NVARCHAR(100)	Required	The name of the Körber One mPage application.
employee_id	INTEGER	Required	The employee identifier.

t_hjone_role

Stores information about the roles set up in Körber One Platform Administration. Used with User Management.

Key/Index Name	Column Name	Clustered	Unique
pk_role	id	Y	Y
i_role_name	name	N	Y
i_role_id_name	id name	N	N

Column Name	Type	Required? – Default Value	Description
id	NVARCHAR(36)	Required	The identifier of the role stored in the Körber One Workspace.
name	NVARCHAR(100)	Required	The name of the role.

t_hjone_role_assignments

Stores information about the roles assigned to employees. Used with User Management.

Key/Index Name	Column Name	Clustered	Unique
pk_role_assignments	id	Y	Y
	employee_id		
i_ra_name	name	N	N
i_ra_id_name	id	N	N
	name		
fk_ra_id	t_hjone_role (id)		
fk_ra_name	t_hjone_role (name)		
fk_ra_employee_id	t_employee (employee_id)		

Column Name	Type	Required? – Default Value	Description
id	NVARCHAR(36)	Required	The identifier of the role stored in the Körper One Workspace.
employee_id	INTEGER	Required	The employee identifier.
name	NVARCHAR(100)	Required	The name of the role.

t_holds

This table allows us to maintain the details of inventory holds.

Application Reference: HLD

Key/Index Name	Column Name	Clustered	Unique
ui_t_holds_sto	sto_id	N	Y
	hold_id		

Column Name	Type	Required? – Default Value	Description
hold_id	BIGINT	Required	Unique hold identifier.
sto_id	BIGINT	Required	Unique stored item identifier.
reason_id	NVARCHAR(10)	Required	Hold reason code.
date_created	DATETIME	Optional – defaults to the current date	Datetime the record was created.

Column Name	Type	Required? – Default Value	Description
employee_id	NVARCHAR(255)	Optional	Employee identifier.

t_hu_master

This table lists handling units (license plates) of related items that are stored, moved, and/or picked together. Many of the fields in this table are used to drive functionality throughout Warehouse Advantage.

Application Reference: HUM

Key/Index Name	Column Name	Clustered	Unique
pk_hu_master	hu_id wh_id	Y	Y
i_hu_master_control_number	control_number	N	N
i_hu_master_load_id	load_id	N	N
i_hu_master_location_id	location_id	N	N
i_hu_master_zone_wh_id	zone wh_id	N	N
i_hu_master_wh_id	wh_id	N	N
i_hu_master_wh_id_container	wh_id container_type	N	N
fk_hu_location_id	t_location (location_id, wh_id)	N	N
fk_hu_wh_id	t_whse (wh_id)	N	N
fk_hu_container_type	t_container (wh_id, container_type)	N	N
fk_hu_zone	t_zone (zone, wh_id)	N	N

Column Name	Type	Required? – Default Value	Description
hu_id	NVARCHAR(22)	Required	Unique license plate identifier.
type	NVARCHAR(2)	Required	The type of current license plate record. Valid values are: AR – Anticipated Receipt IV – Inventory LO – Loaded Order RC – Received SO – Staged Order

Column Name	Type	Required? – Default Value	Description
control_number	NVARCHAR(30)	Optional	Control number. Types IV and AR may have an ASN, receiver, or receipt identifier as a control number. Types LO and SO may have an order number or work order identifier as a control number.
location_id	NVARCHAR(50)	Optional	Valid location identifier in the warehouse.
subtype	CHAR(1)	Not used	
status	CHAR(1)	Required – defaults to A	Identifies whether a license plate is in use or not, as well as indicating if it is on hold. Valid values are: A – Available H – Hold U – Unavailable
fifo_date	DATETIME(23)	Optional – defaults to current date	The FIFO date.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
load_position	INT(10)	Optional – defaults to 0	Position of the license plate when it is to be loaded onto a truck, etc.
haz_material	NVARCHAR(10)	Not used	
load_id	NVARCHAR(30)	Optional	Load identifier of the license plate if it is part of a load.
load_seq	INT(10)	Optional – defaults to 0	Sequence of the license plate in a load if it is part of a load.
ver_flag	CHAR(1)	Optional	Verification flag. Used in cycle counting.
zone	NVARCHAR(10)	Not used	
reserved_for	NVARCHAR(15)	Not used	
container_type	NVARCHAR(10)	Optional	If license plate is a container, indicates container type.
stop_id	INT(10)	Not used	
parent_hu_id	NVARCHAR(22)	Not used	
user_id	NVARCHAR(10)	Optional	User identifier, for application record locking.
sort_type	NVARCHAR(30)	Optional	Criteria for ordering what is being received

t_intlv_gp_detail

Stores interleave group details.

Application Reference: IGM

Key/Index Name	Column Name	Clustered	Unique
pk_intlv_gp_detail_id	intlv_gp_detail_id	Y	Y
i_intlv_gp_detail	intlv_gp_id sequence	N	Y
fk_intlv_gp_id	t_intlv_gp_master (intlv_gp_id)	N	N

Column Name	Type	Required? – Default Value	Description
intlv_gp_detail_id	INT IDENTITY (10)	Required	Record identifier associated with the interleave group detail.
intlv_gp_id	INT	Required	Record identifier associated with the interleave group master id.
sequence	INT	Required	Interleave group detail sequence.
work_type	NVARCHAR(2)	Required	Work type associated to the details sequence.
age_threshold	INT	Optional	Age threshold in minutes used to determine work priority assignment.
priority_threshold	INT	Optional	Priority threshold used to determine work priority assignment.

t_intlv_gp_detail_op_dir

Stores interleave group details for operator directed work types.

Application Reference: IGO

Key/Index Name	Column Name	Clustered	Unique
i_intlv_gp_detail_op_dir	intlv_gp_detail_id wh_id	N	Y
fk_intlv_gp_detail_op_dir_loc	t_location (location_id, wh_id)	N	N
fk_intlv_gp_detail_id	t_intlv_gp_detail (intlv_gp_detail_id)	N	N

Column Name	Type	Required? – Default Value	Description
intlv_gp_detail_id	INT	Required	Record identifier associated with the interleave group detail.
wh_id	NVARCHAR(10)	Required	Warehouse identifier.
location_id	NVARCHAR(50)	Required	Location identifier.
age	INT	Optional – defaults to 60	Age (minutes) assigned to operator directed work types.
priority	INT	Optional – defaults to 30	Priority assigned to operator directed work types.

t_intlv_gp_master

Stores interleave group master definitions.

Application Reference: IGM

Key/Index Name	Column Name	Clustered	Unique
pk_interleave_group	intlv_gp_id	Y	Y
i_intlv_gp_master	intlv_gp_name	N	Y

Column Name	Type	Required? – Default Value	Description
intlv_gp_id	INT IDENTITY (10)	Required	Record identifier associated with the interleave group master.
intlv_gp_name	NVARCHAR(50)	Required	Name used to match an interleave group to a menu option.
interleave_type	NVARCHAR(20)	Required	Identifies interleave group type. Valid values are: AGEPRIORITY PROXIMITY REVOLVE

t_intlv_process

Stores work type set up data for interleaving.

Application Reference: IGP

Key/Index Name	Column Name	Clustered	Unique
pk_interleave_process	work_type	Y	Y

Column Name	Type	Required? – Default Value	Description
work_type	NVARCHAR(2)	Required	Type of work.
process	NVARCHAR(130)	Required	Indicates the Warehouse Advantage process to be called by the interleave dispatcher.
operator_directed_flag	NVARCHAR(3)	Optional – defaults to NO	Defines whether the work groups detail should have an operator directed record. Valid values are: NO YES

t_item_class_dia_ovrd

The purpose of this table is to define a class id override against the class id of an item's UOM based on certain dynamic item attribute values.

Application Reference: ICO

Index/Key Name	Column Name	Clustered	Unique
pk_item_cdo	item_number wh_id uom stored_attribute_id	Y	Y
i_item_class_dia_ovrd_class_id	class_id, wh_id	N	N
i_item_class_dia_ovrd_wh_id	wh_id	N	N
i_item_class_dia_ovrd_stored	stored_attribute_id	N	N
fk_item_cdo_item_number	t_item_master (item_number, wh_id)		
fk_item_cdo_item_whid	t_whse (wh_id)		
fk_item_cdo_stored_attr_id	t_sto_attr_collection_master (stored_attribute_id)		
fk_item_cdo_class	t_class (class_id, wh_id)		

Column Name	Type	Required? – Default Value	Description
item_number	NVARCHAR(30)	Required	Item identifier.
wh_id	NVARCHAR(10)	Required	Warehouse identifier.
uom	NVARCHAR(10)	Required	Unit of measure.
stored_attribute_id	BIGINT(19)	Required	Identifier of the set of attribute values.
class_id	NVARCHAR(10)	Required	Identifier of a valid class_id that override against the one that appears in the t_item_uom table.
precedence	INT(10)	Required	Precedence of the class. The lesser value goes first.

t_item_comment

Stored additional information and/or comments about valid items in the warehouse.

Application Reference: ITC

Key/Index Name	Column Name	Clustered	Unique
pk_item_comment	item_comment_id	Y	Y
u_item_comment	item_number wh_id activity_type comment_seq	N	Y
i_item_comment_item_master_id	item_master_id	N	N
fk_item_number_1	t_item_master (item_number, wh_id)	N	N
fk_item_comment_order	t_item_master (item_master_id)	N	N

Column Name	Type	Required? – Default Value	Description
item_comment_id	INTEGER IDENTITY(10)	Required	Unique identifier.
item_master_id	INTEGER(10)	Optional	Foreign key to t_item_master.
item_number	NVARCHAR(30)	Required	Item identifier.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.

Column Name	Type	Required? – Default Value	Description
activity_type	NVARCHAR(2)	Optional	Indicates the type of comment or instruction. Valid values are: PK – Picking / Packing RC – Receiving ST – Storage
comment_seq	NVARCHAR(2)	Optional	Sequence of comments about this item.
comment_text	NVARCHAR(50)	Required	Comment regarding the item.

t_item_image

Stores information about item images.

Key/Index Name	Column Name	Clustered	Unique
pk_item_image	item_image_id	Y	Y
u_item_image	wh_id item_number sequence	N	Y
i_item_image_item_master_id	item_master_id	N	N
fk_item_image_item_master	t_item_master (item_master_id)	N	N

Column Name	Type	Required? – Default Value	Description
item_image_id	INT IDENTITY(10)	Required	Unique identifier
item_master_id	INT(10)	Optional	Foreign Key to Item Master
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
item_number	NVARCHAR(50)	Required	Unique for each item.
sequence	INT(10)	Required	Item image sequence. Allows the display of multiple images for the same item in the sequence specified.
picture_mime_type	NVARCHAR(30)	Required	Picture mime type
picture_filename	NVARCHAR(250)	Required	Picture filename.
picture	VARBINARY(MAX)	Required	Picture image.

t_item_master

Stores information about all valid items in the warehouse. If the same item number is stored in two warehouses, there are two records in this table with that item number, one for each warehouse.

Application Reference: ITM

Key/Index Name	Column Name	Clustered	Unique
pk_item_master	item_master_id	Y	Y
uk_item_master	item_number wh_id	N	Y
i_item_master_alt_item_number	alt_item_number	N	N
i_item_master_upc	upc	N	N
i_item_master_class_id_wh_id	class_id wh_id	N	N
i_item_master_pick_put_id	pick_put_id	N	N
i_item_master_xdock_profile_id	xdock_profile_id	N	N
i_item_master_attribute_collec	attribute_collection_id	N	N
i_item_master_wh_id	wh_id	N	N
i_item_master_display	display_item_number wh_id item_number client_code	N	N
i_t_item_master_key_1	item_number wh_id client_code display_item_number description item_master_id	N	N
i_t_item_master_key_2	client_code display_item_number item_master_id item_number wh_id description	N	N
fk_item_master_wh_id	t_whse (wh_id)		
fk_item_master_classid	t_class (class_id, wh_id)		
fk_item_master_pick	t_pick_put_master (pick_put_id)		

Key/Index Name	Column Name	Clustered	Unique
fk_item_master_profileid	t_item_xdock_profile (profile_id)		
fk_itm_master_attrb_collection	t_attribute_collection_master (attribute_collection_id)		
fk_itm_master_client_code	t_client (wh_id, client_code)		

Column Name	Type	Required? – Default Value	Description
item_master_id	INTEGER IDENTITY	Required	Unique identifier for the record.
item_number	NVARCHAR(30)	Required	Unique item number. Note Items can also be identified by alt_item_number or upc. The search order is: item_number, alt_item_number, upc.
description	NVARCHAR(60)	Optional	Description of the item.
uom	NVARCHAR(10)	Required	The item's base unit of measure for all imports and exports. There must be a matching Unit of Measure record for this value. An item's base unit of measure has a conversion factor of 1. This field is set to 'EA' during import if no value is provided for the import.
inventory_type	NVARCHAR(2)	Optional – defaults to FG	Inventory type. Suggested values are: FG – Finished good RM – Raw material This value can be used by Inbound VAS as a criteria for applying a VAS Profile.
shelf_life	INTEGER	Optional – defaults to 9999	Shelf life in days. Valid values are: 0 – No shelf life Non-zero – Life in number of days (0001 through 9999) This value is used to calculate the FIFO window in put-away rules. See the <i>Warehouse Advantage Picking and Put-away Rules</i> document for more information.
alt_item_number	NVARCHAR(30)	Optional	Alternate item number. If this value is used it must be unique within the warehouse.
commodity_code	NVARCHAR(22)	Optional	Commodity code. Informational only.

Column Name	Type	Required? – Default Value	Description
nmfc_code	NVARCHAR(50)	Optional	This field is used by Warehouse Advantage Adapter For K.Motion Ship to define the National Motor Freight Traffic Association code. This is used for less than truckload (LTL) shipments.
nmfc_item_sub	NVARCHAR(10)	Optional	This field is used by Warehouse Advantage Adapter For K.Motion Ship to define the National Motor Freight Traffic item sub code. This is used for less than truckload (LTL) shipments.
nafta_pref_criteria	NVARCHAR(1)	Optional	NAFTA preferred criteria. Informational only.
nafta_producer	NVARCHAR(2)	Optional	NAFTA producer. Informational only.
nafta_net_cost	NVARCHAR(1)	Optional	NAFTA net cost. Informational only.
price	FLOAT(15)	Optional	Price. Used to determine whether picked license plates containing this item are over the system control value for audit cost and need to be audited. Warehouse Advantage Adapter for K.Motion Ship uses this value if shipping international; this is the unit price.
std_hand_qty	FLOAT(15)	Not used	
std_qty_uom	NVARCHAR(10)	Not used	
inspection_code	NVARCHAR(1)	Not used	Note Inbound inspection logic is handled via Inbound VAS.
serial_control	NVARCHAR(1)	Required – defaults to N	Type of serial number control. Indicates how serial numbers for the item are processed. Valid values are: F – Full (serial number is tracked within the four walls of the warehouse). I – Inbound Trace (serial number is captured at point of receipt during inbound processes only). N – None. O – Outbound Trace (serial number is captured at the point of picking to fulfill an order during outbound processes only). T – Trace In/Out (serial number is captured both at the point of receipt and the point of picking).

Column Name	Type	Required? – Default Value	Description
lot_control	NVARCHAR(1)	Required – defaults to N	<p>Type of lot number control. Indicates how lot numbers for the item are processed. Valid values are:</p> <p>F – Full (lot number is tracked within the four walls of the warehouse).</p> <p>I – Inbound Trace (lot number is captured at point of receipt during inbound processes only).</p> <p>N – None.</p> <p>O – Outbound Trace (lot number is captured at the point of picking to fulfill an order during outbound processes only).</p> <p>T – Trace In/Out (lot number is captured both at the point of receipt and the point of picking).</p>
wh_id	NVARCHAR(10)	Required	<p>Valid warehouse identifier.</p> <p>The value matches one of the defined warehouses (see table t_whse).</p>
reorder_point	FLOAT(15)	Optional – defaults to 0	Reorder point. Informational only.
reorder_qty	FLOAT(15)	Optional – defaults to 0	Reorder quantity. Informational only.
cycle_count_class	NVARCHAR(1)	Not used	
last_count_date	DATETIME	Required – defaults to the system date when the item record is created	Date the item was last cycle counted.
class_id	NVARCHAR(10)	Optional	<p>Class identifier.</p> <p>This is the class identifier applied to the item's units of measure during import. If this field is used, the value matches one of the defined put-away classes (see tables t_class and t_class_loca).</p> <p>This value drives picking and put-away rules when the UOM can't be determined. See the <i>Warehouse Advantage Picking and Put-away Rules</i> document for more information.</p>
pick_location	NVARCHAR(50)	Optional.	<p>Forward pick location.</p> <p>This value can be used by Inbound VAS as a criteria for applying a VAS Profile.</p>

Column Name	Type	Required? – Default Value	Description
stacking_seq	NVARCHAR(2)	Not used	
comment_flag	NVARCHAR(1)	Optional – defaults to N	This flag indicates whether the item has a comment record defined (see table t_item_comment). Valid values are: N – No Y – Yes
ver_flag	NVARCHAR(1)	Not used	
upc	NVARCHAR(30)	Optional	Universal Product Code. If this field is used it must be unique within the warehouse.
unit_weight	FLOAT(15)	Not used	
tare_weight	FLOAT(15)	Not used	
haz_material	NVARCHAR(10)	Optional	Hazardous material indicator. Informational only.
inv_cat	NVARCHAR(10)	Optional	Inventory category. Can be used by Inbound VAS as a criteria for applying a VAS Profile.
inv_class	NVARCHAR(10)	Optional	Inventory class. Can be used by Inbound VAS as a criteria for applying a VAS Profile.
unit_volume	FLOAT(15)	Not used	
nested_volume	FLOAT(15)	Not used	
xdock_profile_id	NVARCHAR(10)	Optional	Cross-docking profile identifier. If this field is used, the value matches one of the defined cross-dock profiles (see table t_item_xdock_profile).
pick_put_id	NVARCHAR(15)	Required – defaults to Default	Identifies which set of rules are used to determine optimal picking and put-away locations. This is the identifier applied to the item's units of measure during import. The value matches one of the defined Pick-Put Profiles. Suggested value is: Default – Default Pick-Put Profile See the <i>Warehouse Advantage Picking and Put-away Rules</i> document for more information and additional valid values.
length	FLOAT(15)	Not used	
width	FLOAT(15)	Not used	

Column Name	Type	Required? – Default Value	Description
height	FLOAT(15)	Not used	
sample_rate	INTEGER	Not used	
compatibility_id	INTEGER	Not used	
commodity_type_id	INTEGER	Not used	
freight_class_id	INTEGER	Optional	Freight class identifier. This field is used by the TMS Integration Module and Advantage Link for Flagship. If this field is used the value matches one of the defined freight classes (see table t_freight_class).
audit_required	NVARCHAR(1)	Optional	Audit required. Used to determine whether picked license plates for this item need to be audited.
msds_url	NVARCHAR(100)	Optional	The URL for the item's Material Safety Data Sheet.
expiration_date_control	NVARCHAR(1)	Optional	Y = Expiration Date Controls are enabled for this item.
ucc_company_prefix	NVARCHAR(10)	Not used	
attribute_collection_id	INTEGER	Optional	Dynamic Item Attributes (DIA) collection identifier. If DIA is configured and is used for the item, the value matches one of the defined attribute collections (see table t_attribute_collection_master).
display_item_number	NVARCHAR(30)	Required – defaults to item_number	For 3PLs this is the item number displayed on RF and on web pages depending on conditional visibility settings. The value may be different from the value in item_number. The display_item_number combined with the client_code must be unique within the warehouse.
client_code	NVARCHAR(30)	Required – defaults to wh_id	For 3PLs this is the client code and matches one of the defined clients (see t_client). Otherwise, this is the warehouse identifier.
country_of_manufacture	NVARCHAR(2)	Optional	Country code where item was manufactured. Required by Warehouse Advantage Adapter for K.Motion Ship when shipping international orders.

Column Name	Type	Required? – Default Value	Description
harmonized_tariff_code	NVARCHAR(10)	Optional	Code that classifies internationally traded products. Required by Warehouse Advantage Adapter for K.Motion Ship when shipping international orders.
image_entity_item_id	NVARCHAR(250)	Optional	This field is used by K.Motion Image. It stores the reference to the image that was uploaded on K.Motion Image.
max_auto_adjust_qty	FLOAT	Optional	This field is used by polling process – Adjust Inventory from Lost Locations. It determines which STO records of item lost locations(location_id: CC_LOST_LOC_ITEM) will be cleaned up based on the following rule: ABS(sto.actual_qty) <= itm.max_auto_adjust_qty

t_item_pickput_dia_ovrd

The purpose of this table is to define a picking/putaway profile override against the profile of an item's UOM based on certain Dynamic Item Attribute values.

Application Reference: IPO

Index/Key Name	Column Name	Clustered	Unique
pk_item_pdo	item_number wh_id uom stored_attribute_id	Y	Y
i_item_pickput_dia_ovrd_wh_id	wh_id	N	N
i_item_pickput_dia_ovrd_stored	stored_attribute_id	N	N
i_item_pickput_dia_ovrd_pickpu	pickput_profile_id	N	N
fk_item_pdo_item_number	t_item_master (item_number, wh_id)		
fk_item_pdo_item_whid	t_whse (wh_id)		
fk_item_pdo_stored_attrib_id	t_sto_attrib_collection_master (stored_attribute_id)		
fk_item_pdo_pickput_master	t_pick_put_master (pick_put_id)		

Column Name	Type	Required? – Default Value	Description
item_number	NVARCHAR(30)	Required	Item identifier.
wh_id	NVARCHAR(10)	Required	Warehouse identifier.
uom	NVARCHAR(10)	Required	Unit of measure.
stored_attribute_id	BIGINT(19)	Required	Identifier of the set of attribute values.
pickput_profile_id	NVARCHAR(15)	Required	Identifier of a valid pick_put_id that override against the one that appears in the t_item_uom table.
precedence	INT(10)	Required	Precedence of the profile. The lesser value goes first.

t_item_uom

Stores information about an item's various units of measure. Only one active unit of measure is allowed per conversion factor value for an item.

Many of the unit of measure fields are only used by K.Motion Container Advantage and K.Motion Container Advantage Express.

Application Reference: ITU

Key/Index Name	Column Name	Clustered	Unique
pk_item_uom	item_uom_id	Y	Y
u_item_uom	item_number wh_id uom	N	Y
i_item_uom_item_master_id	item_master_id	N	N
i_item_uom_class_id_wh_id	class_id wh_id	N	N
i_item_uom_pick_put_id	pick_put_id	N	N
i_item_uom_wh_id	wh_id	N	N
fk_item_uom_item_master	t_item_master (item_master_id)	N	N
fk_item_number_2	t_item_master (item_number, wh_id)	N	N
fk_item_uom_class_id	t_class (class_id, wh_id)	N	N
fk_item_uom_wh_id	t_whse (wh_id)	N	N
fk_item_uom_put_id	t_pick_put_master (pick_put_id)	N	N

Column Name	Type	Required? – Default Value	Description
item_uom_id	INTEGER IDENTITY	Required	Unique identifier for the record.
item_master_id	INTEGER	Optional	If this value is used it must match one of the defined item identifiers (t_item_master.item_master_id).
item_number	NVARCHAR(30)	Required	Valid item number. The item_number combined with the wh_id matches one of the defined items (see table t_item_master).
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier. The item_number combined with the wh_id matches one of the defined items (see table t_item_master).

Column Name	Type	Required? – Default Value	Description
uom	NVARCHAR(10)	Required	<p>Unit of Measure (UOM). UOM codes can be any value and for any unit of measurement.</p> <p>There must be a matching record for the base unit of measure defined for the item (t_item_master.uom).</p> <p>Some suggested values based on commonly used units are:</p> <p>CS – Case</p> <p>EA – Each</p> <p>PL – Pallet</p>
conversion_factor	FLOAT(15)	Required	<p>An item's base unit of measure has a conversion factor of 1. The conversion factor for all other UOMs is how many base units are in this unit. An item can only have one unit of measure per conversion factor value with a status of 'ACTIVE'.</p> <p>The value must be greater than zero.</p>
package_weight	FLOAT(15)	Optional – defaults to 0	<p>Package weight of the unit.</p> <p>This field is optionally used by Container Advantage. If this field is used the value must be greater than or equal to zero.</p>
units_per_layer	FLOAT(15)	Optional – defaults to 0	<p>Number of units per layer (Ti-Hi).</p> <p>This field is optionally used by Container Advantage. If this field is used the value must be greater than or equal to zero.</p>
layers_per_uom	FLOAT(15)	Optional – defaults to 0	<p>Number of layers of units (Ti-Hi).</p> <p>This field is optionally used by Container Advantage. If this field is used the value must be greater than or equal to zero.</p>
uom_weight	FLOAT(15)	Optional – defaults to 0	<p>Unit weight.</p> <p>This field is required by Container Advantage for calculating the maximum weights for containers. If this field is used the value must be greater than zero.</p> <p>This field is required by the TMS Integration Module for calculating shipping weights. If this field is used the value must be greater than or equal to zero.</p> <p>This field is required by Advantage Link for Flagship, and Warehouse Advantage Adapter for K.Motion Ship for calculating shipping weights. If this field is used the value must be greater than zero.</p>

Column Name	Type	Required? – Default Value	Description
pickable	NVARCHAR(1)	Optional – defaults to Y	Indicates whether the UOM is available for picking. This field is required by Container Advantage. Valid values are: N – No Y – Yes
box_type	INTEGER	Optional – defaults to 1	Box type for the unit. This field is required by Container Advantage. Valid values are: 1 – box 2 – cylinder NULL – sofa
length	FLOAT(15)	Optional – defaults to 1	Unit length. This field is required by Container Advantage and Container Advantage Express. If this field is used the value must be greater than zero.
width	FLOAT(15)	Optional – defaults to 1	Unit width. This field is required by Container Advantage and Container Advantage Express. If this field is used the value must be greater than zero.
height	FLOAT(15)	Optional – defaults to 1	Unit height. This field is required by Container Advantage and Container Advantage Express. If this field is used the value must be greater than zero.
no_overhang_on_top	INTEGER	Optional – defaults to 0	No overhang on top. This field is optionally used by Container Advantage to determine whether a unit is allowed to stick out of a container. Valid values are: 0 – False 1 – True
stack_code	INTEGER	Optional – defaults to -1	Stack code. This field is required by Container Advantage to determine whether stacking rules are applied to a unit. If this field is used the value must either be -1 which indicates that stacking rules are not used for the unit, or greater than or equal to zero.

Column Name	Type	Required? – Default Value	Description
batch	INTEGER	Optional – defaults to 0	Loading sequence number. This field is optionally used by Container Advantage. If this field is used the value must be greater than zero.
use_orientation_data	INTEGER	Optional – defaults to 0	Use orientation data. This field is required by Container Advantage to determine whether a UOM has orientation data (see table t_uom_orientation). Valid values are: 0 – False 1 – True
turnable	INTEGER	Optional – defaults to 1	Indicates whether a unit may be turned 90 degrees. This field is required by Container Advantage. Valid values are: 0 – False 1 – True
on_bottom_ok	INTEGER	Optional – defaults to 0	Indicates whether a unit may be loaded on the bottom of a container. This field is required by Container Advantage. Valid values are: 0 – False 1 – True
on_side_ok	INTEGER	Optional – defaults to 0	Indicates whether a unit may be loaded on its side. This field is required by Container Advantage. Valid values are: 0 – False 1 – True
on_end_ok	INTEGER	Optional – defaults to 0	Indicates whether a unit may be loaded on its end. This field is required by Container Advantage. Valid values are: 0 – False 1 – True

Column Name	Type	Required? – Default Value	Description
bottom_only	INTEGER	Optional – defaults to 0	Indicates that a unit is required to be loaded on the bottom of a container. This field is required by Container Advantage. Valid values are: 0 – False 1 – True
top_only	INTEGER	Optional – defaults to 0	Indicates whether a unit is required to be placed on the top of a stack in a container. This field is required by Container Advantage. Valid values are: 0 – False 1 – True
max_in_layer	INTEGER	Optional – defaults to 1	The maximum number in a layer if the unit is bottom only or top only. This field is required by Container Advantage. If this field is used the value must be greater than zero.
max_support_weight	FLOAT(15)	Optional – defaults to 1	The maximum weight that can be placed on top of the unit. This field is required by Container Advantage. If this field is used the value must be greater than zero.
stack_index	INTEGER	Optional – defaults to 0	The stack index of the unit. This field is required by Container Advantage to determine stacking order for a container. If this field is used the value must either be -1 which indicates that the parameter is not used for the unit, or greater than or equal to zero.
container_value	FLOAT(15)	Optional – defaults to 0	Unit value. This field is optionally used by Container Advantage. If this field is used the value must be greater than or equal to zero.
load_separately	INTEGER	Optional – defaults to 0	Indicates whether a unit is required to be in a container by itself. This field is required by Container Advantage. Valid values are: 0 – False 1 – True

Column Name	Type	Required? – Default Value	Description
nesting_height_increase	FLOAT(15)	Optional – defaults to 0	The unit's height increase when stacked. This field is used by Container Advantage to determine the height of a stack of the unit. If this field is used the value must be greater than zero.
nested_volume	FLOAT(15)	Optional – defaults to 0	Nested volume allotment as a percentage increment. For example, if the nested volume of a unit of measure is 10% of the unit volume, this should be set to 10. This field is used in complex cubing calculations by put-away rules. See the <i>Warehouse Advantage Picking and Put-away Rules</i> document for more information.
unit_volume	FLOAT(15)	Optional – defaults to 0	Unit volume. This field is used in complex cubing calculations by put-away rules. See the <i>Warehouse Advantage Picking and Put-away Rules</i> document for more information.
pattern	NVARCHAR(20)	Optional – defaults to STANDARD	The break pattern of the unit. This field is required by Container Advantage.
priority	INTEGER	Optional – defaults to 1	The priority of the pattern. This field is optionally used by Container Advantage. If this field is used the value must be greater than zero.
status	NVARCHAR(10)	Optional – defaults to ACTIVE	This determines whether the UOM is currently active. Inactive UOMs are not used. Valid values are: ACTIVE INACTIVE
uom_prompt	NVARCHAR(20)	Required	Text displayed to the user when this UOM is used. This field is set to match the value in the uom field during import if no value is provided for the import.
default_receipt_uom	NVARCHAR(3)	Optional – defaults to NO	Default receipt UOM. Valid values are: NO YES
default_pick_uom	NVARCHAR(3)	Not used	

Column Name	Type	Required? – Default Value	Description
class_id	NVARCHAR(10)	Optional	Class identifier for the unit. If this field is used, the value matches one of the defined put-away classes (see tables t_class and t_class_loca). This field is used by put-away rules. See the <i>Warehouse Advantage Picking and Put-away Rules</i> document for more information.
pick_put_id	NVARCHAR(15)	Required – defaults to Default	Identifies which set of rules are used to determine optimal picking and put-away locations for the unit. The value matches one of the defined Pick-Put Profiles. Suggested value is: Default – Default Pick-Put Profile See the <i>Warehouse Advantage Picking and Put-away Rules</i> document for more information and additional valid values.
conveyable	NVARCHAR(3)	Not used	
std_hand_qty	FLOAT(15)	Optional – defaults to 0	Standard handling quantity is used by all quantity prompts to reduce mis-keyed quantities. It does so by making sure the quantity entered is not two times the standard handling quantity. This quantity is in terms of its uom. For example, if uom is CASE and you do not want to handle more than 10 cases, the std_hand_qty should be 5. A value of 0 (zero) indicates that this limit is not used.
min_hand_qty	FLOAT(15)	Optional – defaults to 0	Minimum handling quantity.
max_hand_qty	FLOAT(15)	Required – defaults to 0	Maximum handling quantity. This value is used to breakdown picks so that no pick quantity exceeds this amount. A value of 0 (zero) indicates that there is not a maximum pick quantity.
default_pick_area	NVARCHAR(10)	Not used	
pick_location	NVARCHAR(50)	Optional	Forward pick location. This field is used by picking rules. See the <i>Warehouse Advantage Picking and Put-away Rules</i> document for more information.
display_config	NVARCHAR(3)	Not used	
vas_profile	NVARCHAR(30)	Optional	Value Added Services profile for Inbound VAS.

Column Name	Type	Required? – Default Value	Description
cartonization_flag	NVARCHAR(3)	Optional – defaults to NO	Determines if a unit can be cartonized. This field is required by Container Advantage and Container Advantage Express. Valid values are: NO YES
gtin	NVARCHAR(14)	Not used	
shippable_uom	NVARCHAR(1)	Optional – defaults to N	Shippable unit of measure. This field is required by Container Advantage and Container Advantage Express. Valid values are: N – Requires cartonization Y – Ships in current form
units_per_grab	NUMBER(20,5)	Optional – defaults to 0	Number of units per grab. This field is required by Labor Advantage.
upright_only	INTEGER	Optional – defaults to 0	Indicates that a unit is required to be loaded upright in a container. This field is required by Container Advantage Express. Valid values are: 0 – False 1 – True

t_item_upc

Stores information about alternate item identifiers.

Key/Index Name	Column Name	Clustered	Unique
pk_item_upc	item_upc_id	Y	Y
u_item_upc	wh_id item_number upc	N	Y
i_item_upc_item_master_id	item_master_id	N	N
fk_item_upc_item_master	t_item_master (item_master_id)	N	N

Column Name	Type	Required? – Default Value	Description
item_upc_id	INT IDENTITY	Required	Unique identifier.
item_master_id	INT(10)	Optional	Foreign key to the item master table.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
item_number	NVARCHAR(30)	Required	Unique item identifier.
upc	NVARCHAR(30)	Required	The upc code for the item.

t_item_vendor

Stores information about item to vendor relationship.

Key/Index Name	Column Name	Clustered	Unique
pk_item_vendor	item_vendor_id	Y	Y
u_item_vendor	wh_id item_number vendor_id	N	Y
i_item_master_item_master_id	item_master_id	N	N
fk_item_master_vendor	t_item_master (item_master_id)	N	N

Column Name	Type	Required? – Default Value	Description
item_vendor_id	INTEGER IDENTITY	Required	Unique identifier.
item_master_id	INTEGER(10)	Optional	Foreign key to the item master table.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.

Column Name	Type	Required? – Default Value	Description
item_number	NVARCHAR(30)	Required	Unique item identifier.
vendor_id	INTEGER(10)	Required	Valid vendor identifier.
preferred	NVARCHAR(1)	Optional – defaults to Y	Preferred. Valid values are: N – No Y – Yes
vendor_item_number	NVARCHAR(30)	Required	Vendor's item number.
price	FLOAT(15)	Optional	Vendor's price for item.

t_item_xdock_profile

Maintains the parameters associated with a cross-docking profile.

Application Reference: IXP

Key/Index Name	Column Name	Clustered	Unique
pk_item_xdock_profile	profile_id	Y	Y

Column Name	Type	Required? – Default Value	Description
profile_id	NVARCHAR(10)	Required	Unique identifier.
description	NVARCHAR(30)	Optional	Describes the profile.
status1_flag	INT(10)	Optional – defaults to 0	Cross-dock profile 1 status. When on, the system checks during put-away to see if all of the item can be used to satisfy planned pick requests for a single, open order. If there are multiple items on the fork, the other items must also qualify for cross-docking using the same criteria. Valid values are: 0 – Off 1 – On
status1_days	INT(10)	Optional – defaults to 0	Cross-dock profile 1 number of days out. Number of days into the future using the earliest ship date for the order. Valid values are: 0 – All days n – Number of days into the future to look for un-picked quantities

Column Name	Type	Required? – Default Value	Description
status2_flag	INT(10)	Optional – defaults to 0	Cross-dock profile 2 status. When on, the system checks during put-away to see if all of the item can be used to satisfy planned pick requests for a collection of open orders. If there are multiple items on the fork, the other items must also qualify for cross-docking using the same criteria. Valid values are: 0 – Off 1 – On
status2_days	INT(10)	Optional – defaults to 0	Cross-dock profile 2 number of days out. Number of days into the future using the earliest ship date for the order. Valid values are: 0 – All days n – Number of days into the future to look for un-picked quantities
status3_flag	INT(10)	Optional – defaults to 0	Cross-dock profile 3 status. When on, the system checks during put-away of each item to see if all of the item can be used to satisfy planned pick requests for directed moves and replenishments. Valid values are: 0 – Off 1 – On
status3_days	INT(10)	Optional – defaults to 0	Cross-dock profile 3 number of days out. Number of days into the future using the earliest ship date for the order. Valid values are: 0 – All days n – Number of days into the future to look for un-picked quantities

t_label

Stores information related to the labels generated for Label Picking Process.

Application Reference: LBL

Key/Index Name	Column Name	Clustered	Unique
pk_label_id	allocation_id label_id	Y	Y

Column Name	Type	Required? – Default Value	Description
allocation_id	INT(10)	Required	Valid allocation_id from t_allocation.
label_id	NVARCHAR(30)	Required	Label unique identifier.
label_status	NVARCHAR(20)	Optional – defaults to NOT PRINTED	Label status. Valid values are: CANCELLED NOT PRINTED PICKED PRINTED REPRINTED
batch_id	NVARCHAR(20)	Optional	Determines the batch or group the label pertains to, determined before printing occurs.
print_sequence	INT(10)	Optional	Determines the sequence in which label will be printed.

t_label_confirm

Stores information about picking labels to be confirmed or cancelled. Stored procedures search continuously for new records in this table to proceed with the described confirmation or cancellation task.

Application Reference: LCF

Key/Index Name	Column Name	Clustered	Unique
pk_label_confirm_id	label_id	Y	Y

Column Name	Type	Required? – Default Value	Description
label_id	NVARCHAR(30)	Required	Label unique identifier.
action_type	NVARCHAR(20)	Required	Describes the action type to be performed with the label. Valid values are: CANCEL CONFIRM SHORTQTY
picked_qty	FLOAT(15)	Optional	Actual picked quantity. Valid for SHORTQTY Action.
processed	CHAR(1)	Optional – defaults to 0	Processing status. 0 – Not processed 1 – Processed, ready to be deleted

t_label_info

Used to hold information about different label formats.

Key/Index Name	Column Name	Clustered	Unique
pk_label_info	label_id	N	Y
i_label_name_key_1	label_name	N	Y

Column Name	Type	Required? – Default Value	Description
label_id	INT IDENTITY(1)	Required	Unique identifier.
label_name	NVARCHAR(30)	Required	A unique and meaningful name for the label.
description	NVARCHAR(50)	Optional	Short description of the label format.
format_path	NVARCHAR(100)	Required	The folder location for the Bartender label format. The path name must end with a backslash (\).

Column Name	Type	Required? – Default Value	Description
format_name	NVARCHAR(50)	Required	Name of label file in Bartender folder.

t_labels_being_printed

Stores information related to showing labels for WebWise.

Column Name	Type	Required? – Default Value	Description
batch_id	NVARCHAR(20)	Optional	Batch identifier
label_id	NVARCHAR(30)	Optional	Label identifier
order_number	NVARCHAR(20)	Optional	Order number
wave_id	NVARCHAR(20)	Optional	Wave identifier
load_id	NVARCHAR(30)	Optional	Load identifier
item_number	NVARCHAR(30)	Optional	Item number
uom	NVARCHAR(10)	Optional	Unit of Measure
planned_qty	NVARCHAR(30)	Optional	Planned quantity
status_label	NVARCHAR(20)	Optional	Label status
wh_id	NVARCHAR(10)	Optional	Warehouse identifier
printer_name	NVARCHAR(15)	Optional	Printer name
w_user_name	NVARCHAR(30)	Optional	WebWise user name
date_time	DATETIME	Optional	Record date.

t_label_print

Holds print requests which get built into files and sent to Bartender.

Key/Index Name	Column Name	Clustered	Unique
pk_label_print	print_id	N	Y
i_label_name_key_1	label_name	N	Y
fk_label_info	t_label_info (label_id)		

Column Name	Type	Required? – Default Value	Description
print_id	BIGINT IDENTITY(1)	Required	Unique identifier.
batch_id	NVARCHAR(30)	Optional	Specifies the batch of labels for printing. Used for label picking.
datetime_stamp	DATETIME(23)	Required	Date of record entry in table.

Column Name	Type	Required? – Default Value	Description
printer	NVARCHAR(15)	Required	Name of printer. Ties to printer_id from t_printer.
qty	INT	Required	Quantity of labels to print.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
label_id	INT	Required	Identifier of label in t_label_info.
item_number	NVARCHAR(30)	Required	Item identifier. Ties to t_item_master.
item_desc	NVARCHAR(60)	Optional	Description of the item. Ties to t_item_master.
upc	NVARCHAR(30)	Optional	UPC of the item. Ties to t_item_master.
order_number	NVARCHAR(30)	Optional	Order identifier. Used for label picking. Ties to t_order.
pick_location	NVARCHAR(50)	Optional	Location to pick the item from. Used for label picking. Ties to t_allocation.
staging_location	NVARCHAR(50)	Optional	Staging location of the order. Used for label picking. Ties to t_pick_detail.
pick_quantity	INT	Optional	Planned quantity of the item to pick for the order. Used for label picking. Ties to t_pick_detail.
pick_batch_id	NVARCHAR(20)	Optional	Identifier of the batch in t_label. Used for label picking.
pick_label_id	NVARCHAR(30)	Optional	Identifier of the label in t_label. Used for label picking.

t_locale

Holds information for locale.

Key/Index Name	Column Name	Clustered	Unique
pk_locale	locale_id	Y	Y

Column Name	Type	Required? – Default Value	Description
locale_id	NVARCHAR(10)	Required	Locale identifier.
name	NVARCHAR(30)	Required	User name
description	NVARCHAR(100)	Optional	Long description.
sequence	INT(10)	Required	Sequences how the locales are displayed to the user.
status	NVARCHAR(10)	Optional – defaults to ACTIVE	Locale status. Valid values are: ACTIVE INACTIVE

t_locale_date_format

Holds information for a locale's date format for display purposes.

Key/Index Name	Column Name	Clustered	Unique
pk_locale	locale_id	Y	Y
fk_locale_id	locale_id	N	Y

Column Name	Type	Required? – Default Value	Description
locale_id	NVARCHAR(10)	Required	Locale identifier.
date_format	NVARCHAR(40)	Required	Display conversion format.

t_location

Stores valid locations in a warehouse and information about those locations.

Application Reference: LOC

Note

Pay special attention to the wh_id and type fields when working with locations, as they are the most important. There are two relationship tables that correspond with this table: t_class_loca (one location may have multiple classes) and t_zone_loca (a location may also have multiple zones).

Index Name	Column Name	Clustered	Unique
pk_location	location_id wh_id	Y	Y
i_location_equipment_type	Equipment_type	N	N
i_location_wh_id	wh_id	N	N
i_location_zone_wh_id	zone wh_id	N	N
fk_location_equipment_type	t_equipment_class (equipment_type)		
fk_location_wh_id	t_whse (wh_id)		
fk_location_zone	t_zone (zone, wh_id)		

Column Name	Type	Required? – Default Value	Description
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
location_id	NVARCHAR(50)	Required	Location identifier.
description	NVARCHAR(50)	Optional	Description of the location.
short_location_id	NVARCHAR(3)	Not used	
status	NVARCHAR(1)	Required – defaults to E.	Indicates the status of the location. The status affects movement processes. Valid values are: E – Empty F – Full I – Inactive P – Partial
zone	NVARCHAR(10)	Optional	Zone for equipment locations, such as forklifts. If this field is used, the value is a valid zone name.
picking_flow	NVARCHAR(10)	Optional	Order of picking in the warehouse.

Column Name	Type	Required? – Default Value	Description
capacity_uom	NVARCHAR(10)	Not used	
capacity_qty	FLOAT(15)	Optional – defaults to 0	Capacity quantity of the location. Quantity is in the base unit of measure, which has a conversion factor of 1. This field is used in simple cubing calculations by put-away rules. See the <i>Warehouse Advantage Picking and Put-away Rules</i> document for more information.
stored_qty	FLOAT(15)	Not used	
type	NVARCHAR(1)	Required	Identifies the location type. Used for validating and filtering locations. Valid values are. A – Aisle C – Scrap D – Door F – Forklift I – Single Item Storage K – Kitting M – Multiple Item Storage O – Pickup & Delivery P – Forward Pick R – Production Staging S – Staging V – VAS W – Put Wall X – Cross-dock
fifo_date	DATETIME(23)	Not used	
cycle_count_class	NVARCHAR(15)	Optional	Determines the frequency of cycle counts (every t_control.next_value days). Valid values are: Blank – Do not generate count check Non-blank – Determines count check frequency NEVER_AUTO - No count work q will be generated for the location when running process NEVER_COUNT – No count work q will be generated for the location

Column Name	Type	Required? – Default Value	Description
last_count_date	DATETIME(23)	Optional	Last date location was counted by a cycle count.
last_physical_date	DATETIME(23)	Optional	Last date location was counted by a physical inventory.
user_count	INTEGER	Optional – defaults to 0	Number of users currently directed to this location.
capacity_volume	FLOAT(15)	Optional – defaults to 0	Total volume capacity of location. 0 – Unlimited capacity This field is used in complex cubing calculations by put-away rules. See the <i>Warehouse Advantage Picking and Put-away Rules</i> document for more information.
time_between_maintenance	FLOAT(15)	Optional – defaults to 0	Time between maintenance.
last_maintained	DATETIME(23)	Optional	Date last maintained.
length	FLOAT(15)	Optional – defaults to 0	Location length.
width	FLOAT(15)	Optional – defaults to 0	Location width.
height	FLOAT(15)	Optional – defaults to 0	Location height.
replenishment_location_id	NVARCHAR(50)	Optional	Replenishment location identifier.
pick_area	NVARCHAR(10)	Optional	Valid pick area.
allow_bulk_pick	NVARCHAR(3)	Optional – defaults to NO	Used to indicate if a location can be used during bulk picking. Valid values are: NO YES
slot_rank	INTEGER	Optional	Used in Slotting Advantage to indicate the location's slotting rank.
slot_status	NVARCHAR(30)	Optional	Used in Slotting Advantage when running an algorithm.

Column Name	Type	Required? – Default Value	Description
item_hu_indicator	NVARCHAR(1)	Required	Loose item or license plate-controlled inventory location. Valid values are: P – Master License Plate controlled H – License Plate controlled I – Loose item N – Both (only for location types F, S, D)
c1	NVARCHAR(30)	Optional	May contain User ID if location is a type 'F' (forklift) and it has been assigned.
c2	NVARCHAR(30)	Optional	May contain extra text information related to the location.
c3	NVARCHAR(30)	Optional	May contain extra text information related to the location.
random_cc	FLOAT(15)	Optional	May contain a random number if cycle count checks are generated.
x_coordinate	NUMERIC(10,4)	Optional	Used by Labor Advantage.
y_coordinate	NUMERIC(10,4)	Optional	Used by Labor Advantage.
z_coordinate	NUMERIC(10,4)	Optional	Used by Labor Advantage.
storage_device_id	INTEGER	Optional	Storage device identifier.
equipment_type	INTEGER	Optional	Stores the equipment type identifier for equipment auditing.
location_group	NVARCHAR(50)	Optional	Identifies the location group. Only used for Control Tower. Valid values are: LOC_GROUP_RECEIPT LOC_GROUP_PUTAWAY LOC_GROUP_FWDPICK LOC_GROUP_RSVSTO LOC_GROUP_WRKSTATION
last_activity_date	DATETIME(23)	Optional	Last date where there was activity at the location

t_lookup

Used as a central source for status definitions for some base app processes and stored procedures for localization.

Key/Index Name	Column Name	Clustered	Unique
pk_lookup_id	lookup_id	Y	Y

ui_type	source locale_id text lookup_type	N	Y
---------	--	---	---

Column Name	Type	Required? – Default Value	Description
lookup_id	INT IDENTITY	Required	Unique identifier.
source	NVARCHAR(50)	Required	Source.
sequence	INT(10)	Optional	Sequence.
locale_id	INT(10)	Required	Valid locale identifier.
text	NVARCHAR(50)	Required	Text
description	NVARCHAR(100)	Optional	Description.
lookup_type	NVARCHAR(10)	Required	Lookup Type.

t_logsend

This table stores error messages queued for processing.

Key/Index Name	Column Name	Clustered	Unique
pk_logsend_logid	log_id	Y	Y

Column Name	Type	Required? – Default Value	Description
log_id	INT IDENTITY	Required	Unique identifier.
log_datetime	DATETIME	Required – defaults to current date	Timestamp to indicate when the record was inserted.
log_level	INT(10)	Required – defaults to 3	The level of logging to which the message is raised in Application Status Console. Valid values are: 1 – Errors 2 – Warnings (errors and warnings) 3 – Miscellaneous information (errors, warnings, and miscellaneous information) 4 – Diagnostic information (errors, warnings, miscellaneous information and diagnostic events) 5 – IPC (inter-process communications)

Column Name	Type	Required? – Default Value	Description
log_message	NVARCHAR(MA X)	Required	The log message.

t_manifest_batch_queue

This table contains the data used by Advantage Link for Flagship.

Application Reference: MBQ

Column Name	Type	Required? – Default Value	Description
work_id	INT IDENTITY	Required	Unique identifier.
date_added	DATETIME(23)	Required	Date record created.
date_finished	DATETIME(23)	Optional	Date finished.
priority	INT(10)	Optional – defaults to 50	Priority.
status	NVARCHAR(10)	Optional – defaults to NEW	Status. Valid values are: NEW
manifest_batch_id	NVARCHAR(50)	Optional	Manifest batch identifier.
wh_id	NVARCHAR(10)	Required	Warehouse identifier.

t_manifest_carrier

This table contains data used by Advantage Link for Flagship and Warehouse Advantage Adapter For K.Motion Ship. This table is a one-to-many extension of the t_carrier table.

Key/Index Name	Column Name	Clustered	Unique
fk_manifest_carrier_id	carrier_id	N	N
uk_carrierid_flagServCode	carrier_id flagship_service_code	N	Y

Column Name	Type	Required? – Default Value	Description
manifest_carrier_id	INT IDENTITY(10)	Required	Unique identifier for the record.
carrier_id	INT(10)	Required	Carrier identifier.
service_level	NVARCHAR(100)	Optional	Manifest service level.
description	NVARCHAR(100)	Optional	Manifest description.
ship_cut_off	DATETIME(23)	Optional	Daily shipment cut off time.
next_pick_up	DATETIME(23)	Optional	Next scheduled pick up.
last_pick_up	DATETIME(23)	Optional	Last pick up.
flagship_service_code	NVARCHAR(25)	Optional	Supported service code.

t_menu

This table contains the data used to display the menu choices. By using the menu level field, access to the system processes can be controlled.

Application Reference: MNU

Key/Index Name	Column Name	Clustered	Unique
pk_menu	menu_id	Y	Y
ui_menu	menu_level name locale_id sequence area_id	N	Y

Column Name	Type	Required? – Default Value	Description
menu_id	INT IDENTITY	Required	Unique identifier.
locale_id	INT(10)	Required – defaults to 1033	Valid language locale identifier.
area_id	INT(10)	Optional – defaults to 1	Yard ID number. This field is used by Yard Advantage.
menu_level	NVARCHAR(30)	Required	This is compared to the current user's menu level and menu options corresponding to that menu level are retrieved.
name	NVARCHAR(30)	Required	Name that the menu option belongs to.
sequence	INT(10)	Required	The order in which the options are displayed and the number used to select the option. Valid values are 1 – 9 .
text	NVARCHAR(50)	Required	Menu text displayed on screen
process	NVARCHAR(130)	Optional	Indicates either the next menu name to display, or the Warehouse Advantage process to call. Must match the text used in the compare action within the "Main process Menu" process.
dynamic_call	NVARCHAR(30)	Required – default No	Determines whether or not to perform a dynamic call to the WANextGeneration solution, or to perform a cross solution call to the classic WA solution.

t_message

This table contains the data used to display the messages to employees.

Application Reference: MES

Key/Index Name	Column Name	Clustered	Unique
pk_message	message_id	Y	Y

Column Name	Type	Required? – Default Value	Description
message_id	INT IDENTITY(10)	Required	Unique identifier for the record.
employee	NVARCHAR(10)	Required	Employee identifier.
wh_id	NVARCHAR(10)	Required	Warehouse identifier.
dept	NVARCHAR(11)	Optional	Department.
message	NVARCHAR(60)	Required	Message text.
priority	INT(10)	Optional	Message priority.
create_date	DATETIME(23)	Optional – defaults to current date	Date message was created.
create_time	DATETIME(23)	Optional – defaults to current date	Time message was created.
read_date	DATETIME(23)	Optional	Date message was read.
read_time	DATETIME(23)	Optional	Time message was read.
respond_date	DATETIME(23)	Optional	Date employee responded.
respond_time	DATETIME(23)	Optional	Time employee responded.
req_response	CHAR(1)	Required	Request for the employee to respond to the message. Valid values are: N – No Y – Yes
response	NVARCHAR(60)	Optional	Employee's response to the message.
msg_read	CHAR(1)	Optional – defaults to N	Indicates whether the message was read. Valid values are: D – Message is marked for deletion N – Message not read Y – Message was read

t_node

The purpose of this table is to hold node setup information for proximity based interleaving.

Key/Index Name	Column Name	Clustered	Unique
pk_node	wh_id node	Y	Y
fk_node_whid	t_whse (wh_id)		

Column Name	Type	Required? – Default Value	Description
wh_id	NVARCHAR(10)	Required	Warehouse identifier.
node	NVARCHAR(10)	Required	Node identifier.
description	NVARCHAR(50)	Optional	Description of the node.

t_node_distance

The purpose of this table is to define the node-to-node relationship for proximity based interleaving.

Key/Index Name	Column Name	Clustered	Unique
pk_node_dist	wh_id, start_node, end_node	Y	Y
i_node_dist_st_node_whid	start_node, wh_id	N	N
i_node_dist_end_node_whid	end_node, wh_id	N	N
fk_node_dist_whid	t_whse (wh_id)		
fk_node_dist_st_node	t_node (wh_id, node)		
fk_node_dist_end_node	t_node (wh_id, node)		

Column Name	Type	Required? – Default Value	Description
wh_id	NVARCHAR(10)	Required	Warehouse identifier.
start_node	NVARCHAR(10)	Required	Start node identifier.
end_node	NVARCHAR(10)	Required	End node identifier.
distance	INT(10)	Required	Distance between Start node and End node.

t_node_loca

The purpose of this table is to define node to location relationships for proximity based interleaving.

Key/Index Name	Column Name	Clustered	Unique
pk_node_loca	wh_id node, location_id	Y	Y
i_node_loca_node_wh_id	node wh_id	N	N
i_node_loca_location_id_wh_id	location_id wh_id	N	N
fk_node_loca_whid	t_whse (wh_id)		
fk_node_loca_node	t_node (wh_id, node)		
fk_node_loca_location	t_location (location_id, wh_id)		

Column Name	Type	Required? – Default Value	Description
wh_id	NVARCHAR(10)	Required	Warehouse identifier.
node	NVARCHAR(10)	Required	Node identifier.
location_id	NVARCHAR(50)	Required	Location identifier.

t_order

This is the outbound order master table that stores the shipping and billing information on a customer order. Many values within the table are optional and drive Warehouse Advantage functionality.

Application Reference: ORM

Key/Index Name	Column Name	Clustered	Unique
pk_order	order_id	Y	Y
uk_order	wh_id order_number	N	Y
ui_order_ordnum	order_number wh_id	N	Y
i_order_type_id	type_id	N	N
i_order_customer_id	customer_id	N	N

Key/Index Name	Column Name	Clustered	Unique
i_order_display	display_order_number client_code wh_id order_number	N	N
fk_order_type	t_lookup (lookup_id)		
fk_order_customer	t_customer (customer_id)		
fk_order_client_code	t_client (wh_id, client_code)		

Column Name	Type	Required? – Default Value	Description
order_id	INTEGER IDENTITY	Required	Unique identifier.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
order_number	NVARCHAR(30)	Required	Order identifier.
store_order_number	NVARCHAR(40)	Optional	Store order number. Informational only.
type_id	INTEGER	Optional	Foreign key to v_type with source of t_order (application uses type_id for 1033 locale). Used to indicate the type of order (e.g., Return to Vendor, Sales Orders, Transfer Orders, Work Orders). Informational only unless set to Transfer Orders.
customer_id	INTEGER	Optional	Customer identifier. Informational only.
cust_po_number	NVARCHAR(30)	Optional	Customer inbound order number for order. Intended as a pass-through field for shipment notification. Informational only.
customer_name	NVARCHAR(100)	Optional	Customer name.
customer_phone	NVARCHAR(30)	Optional	Customer phone.
customer_fax	NVARCHAR(30)	Optional	Customer fax.
customer_email	NVARCHAR(50)	Optional	Customer email.
department	NVARCHAR(10)	Optional	Department. Intended as a pass-through field for shipment notification. Informational only.
load_id	NVARCHAR(30)	Optional – defaults to order number	Load identifier. Note It is possible for an order to be on more than one load. If used, this field contains the latest load associated with the order.
load_seq	INTEGER	Not used	

Column Name	Type	Required? – Default Value	Description
bol_number	NVARCHAR(50)	Optional	Bill of Lading number. Intended as a pass-through field for shipment notification. Used in Warehouse Advantage Adapter for K.Motion Ship.
pro_number	NVARCHAR(20)	Optional	PRO number. Intended as a pass-through field for shipment notification. This field is updated if used in the Shipping process.
master_bol_number	NVARCHAR(10)	Optional	Master Bill of Lading number. Intended as a pass-through field for shipment notification. Informational only.
carrier	NVARCHAR(30)	Optional	Carrier code.
carrier_scac	NVARCHAR(50)	Optional	Standard Carrier Alpha Code. This field is used by the TMS Integration Module.
freight_terms	NVARCHAR(10)	Optional	Valid values are: Collect Prepaid thirdparty Consignee – (used only by Warehouse Advantage Adapter for K.Motion Ship.) This field is used by the TMS Integration Module, Advantage Link for Flagship, and Warehouse Advantage Adapter for K.Motion Ship.
rush	NVARCHAR(5)	Optional	Flag to indicate rush status of order. Informational only. Suggested values are: E – Emergency R – Rush X – Normal
priority	NVARCHAR(3)	Optional – defaults to 10	Load/Order priority
order_date	DATETIME(23)	Optional – defaults to import date	Date of order.
arrive_date	DATETIME(23)	Optional	Date of expected carrier arrival. Informational only.
actual_arrival_date	DATETIME(23)	Optional	Actual arrival date of carrier. Informational only.

Column Name	Type	Required? – Default Value	Description
date_picked	DATETIME(23)	Not used	
date_expected	DATETIME(23)	Optional	Date backordered items are expected. Informational only.
promised_date	DATETIME(23)	Optional	Date promised.
weight	FLOAT(15)	Optional – defaults to 0	Order weight. Advanced Fulfillment Application, Container Advantage, and Container Advantage Express calculate and update the order weight.
cubic_volume	FLOAT(15)	Optional – defaults to 0	Cubic volume of order. Advanced Fulfillment Application, Container Advantage, and Container Advantage Express calculate and update the order weight.
containers	INTEGER	Optional – defaults to 0	Order container count.
backorder	NVARCHAR(1)	Required – defaults to N	Used in picking processes to determine if an order can be back ordered. Valid values are: Y – Yes N – No
pre_paid	NVARCHAR(10)	Optional	Prepaid Freight. Informational only. Suggested values are: COLLECT PREPAID
cod_amount	FLOAT(15)	Optional – defaults to 0	COD amount. This field is used by Advantage Link for Flagship.
insurance_amount	FLOAT(15)	Optional – defaults to 0	Insurance amount. This field is used by Advantage Link for Flagship.
pip_amount	FLOAT(15)	Optional – defaults to 0	Parcel Insurance Plan amount.
freight_cost	FLOAT(15)	Optional – defaults to 0	Total freight cost.
region	NVARCHAR(5)	Optional	Region of country.
bill_to_code	NVARCHAR(15)	Optional	Bill to code.

Column Name	Type	Required? – Default Value	Description
bill_to_name	NVARCHAR(30)	Optional	Bill order to name. This field is used by the TMS Integration Module.
bill_to_addr1	NVARCHAR(30)	Optional	Bill to address line 1. This field is used by the TMS Integration Module.
bill_to_addr2	NVARCHAR(30)	Optional	Bill to address line 2. This field is used by the TMS Integration Module.
bill_to_addr3	NVARCHAR(30)	Optional	Bill to address line 3.
bill_to_city	NVARCHAR(30)	Optional	Bill to city. This field is used by the TMS Integration Module.
bill_to_state	NVARCHAR(3)	Optional	Bill to state/region. This field is used by the TMS Integration Module.
bill_to_zip	NVARCHAR(12)	Optional	Bill to postal code. This field is used by the TMS Integration Module.
bill_to_country_code	NVARCHAR(5)	Optional	Bill to country code. This field is used by the TMS Integration Module.
bill_to_country_name	NVARCHAR(30)	Optional	Bill to country name.
bill_to_phone	NVARCHAR(30)	Optional	Bill to phone number. This field is used by the TMS Integration Module.
ship_to_code	NVARCHAR(15)	Optional	Ship to code.
ship_to_name	NVARCHAR(30)	Optional	Ship order to name. This field is used by the TMS Integration Module and Advantage Link for Flagship.
ship_to_addr1	NVARCHAR(30)	Optional	Ship to address line 1. This field is used by the TMS Integration Module and Advantage Link for Flagship.
ship_to_addr2	NVARCHAR(30)	Optional	Ship to address line 2. This field is used by the TMS Integration Module and Advantage Link for Flagship.
ship_to_addr3	NVARCHAR(30)	Optional	Ship to address line 3.

Column Name	Type	Required? – Default Value	Description
ship_to_city	NVARCHAR(30)	Optional	Ship to city. This field is used by the TMS Integration Module and Advantage Link for Flagship.
ship_to_state	NVARCHAR(3)	Optional	Ship to state/region. This field is used by the TMS Integration Module and Advantage Link for Flagship.
ship_to_zip	NVARCHAR(12)	Optional	Ship to postal code. This field is used by the TMS Integration Module and Advantage Link for Flagship.
ship_to_country_code	NVARCHAR(5)	Optional	Ship to country code. This field is used by the TMS Integration Module and Advantage Link for Flagship.
ship_to_country_name	NVARCHAR(30)	Optional	Ship to country name.
ship_to_phone	NVARCHAR(30)	Optional	Ship to phone number. This field is used by the TMS Integration Module and Advantage Link for Flagship.
ship_to_ein	NVARCHAR(9)	Optional	Employer Identification Number (EIN). Warehouse Advantage Adapter for K.Motion Ship uses this value for international shipments.
delivery_name	NVARCHAR(30)	Optional	Delivery name.
delivery_addr1	NVARCHAR(30)	Optional	Delivery address line 1.
delivery_addr2	NVARCHAR(30)	Optional	Delivery address line 2.
delivery_addr3	NVARCHAR(30)	Optional	Delivery address line 3.
delivery_city	NVARCHAR(30)	Optional	Delivery city.
delivery_state	NVARCHAR(3)	Optional	Delivery state/region.
delivery_zip	NVARCHAR(12)	Optional	Delivery postal code.
delivery_country_code	NVARCHAR(5)	Optional	Delivery country code.
delivery_country_name	NVARCHAR(30)	Optional	Delivery country name.
delivery_phone	NVARCHAR(30)	Optional	Delivery phone number.
bill_frght_to_code	NVARCHAR(15)	Optional	Bill freight to code.
bill_frght_to_name	NVARCHAR(30)	Optional	Bill freight to name. This field is used by Advantage Link for Flagship.
bill_frght_to_addr1	NVARCHAR(30)	Optional	Bill freight to address line 1. This field is used by Advantage Link for Flagship.

Column Name	Type	Required? – Default Value	Description
bill_frght_to_addr2	NVARCHAR(30)	Optional	Bill freight to address line 2. This field is used by Advantage Link for Flagship.
bill_frght_to_addr3	NVARCHAR(30)	Optional	Bill freight to address line 3.
bill_frght_to_city	NVARCHAR(30)	Optional	Bill freight to city. This field is used by Advantage Link for Flagship.
bill_frght_to_state	NVARCHAR(3)	Optional	Bill freight to state/region. This field is used by Advantage Link for Flagship.
bill_frght_to_zip	NVARCHAR(12)	Optional	Bill freight to postal code. This field is used by Advantage Link for Flagship.
bill_frght_to_country_code	NVARCHAR(5)	Optional	Bill freight to country code. This field is used by Advantage Link for Flagship.
bill_frght_to_country_name	NVARCHAR(30)	Optional	Bill freight to country name.
bill_frght_to_phone	NVARCHAR(30)	Optional	Bill freight to phone number. This field is used by Advantage Link for Flagship.
return_to_code	NVARCHAR(30)	Optional	Return to code.
return_to_name	NVARCHAR(30)	Optional	Return to name.
return_to_addr1	NVARCHAR(30)	Optional	Return to address line 1.
return_to_addr2	NVARCHAR(30)	Optional	Return to address line 2.
return_to_addr3	NVARCHAR(30)	Optional	Return to address line 3
return_to_city	NVARCHAR(30)	Optional	Return to city.
return_to_state	NVARCHAR(3)	Optional	Return to state/region.
return_to_zip	NVARCHAR(12)	Optional	Return to postal code.
return_to_country_code	NVARCHAR(5)	Optional	Return to country code.
return_to_country_name	NVARCHAR(30)	Optional	Return to country name.
return_to_phone	NVARCHAR(30)	Optional	Return to phone.
appointment_number	NVARCHAR(50)	Optional	WA Adapter for Schedule field - appointment number.
scheduled_location	NVARCHAR(50)	Optional	WA Adapter for Schedule field - scheduled location.
scheduled_start	DATETIME	Optional	WA Adapter for Schedule field - scheduled start time.

Column Name	Type	Required? – Default Value	Description
scheduled_duration	INTEGER	Optional	WA Adapter for Schedule field - scheduled duration of appointment.
appointment_status	NVARCHAR(100)	Optional	WA Adapter for Schedule field – appointment status.
rma_number	NVARCHAR(40)	Optional	Return merchandise authorization number.
rma_expiration_date	DATETIME(23)	Optional	Return merchandise authorization expiration date.
carton_label	NVARCHAR(10)	Optional	Seal number. Intended as a pass-through field for shipment notification. This field is updated if used in the Shipping process.
ver_flag	NVARCHAR(4)	Not used	
full_pallets	INTEGER	Not used	
haz_flag	NVARCHAR(10)		Informational only. Suggested values are: 1 – Hazardous 2 – Dangerous 3 – Corrosive 4 – Flammable
order_wgt	FLOAT(15)	Not used	
status	NVARCHAR(20)	Required – defaults to U	Valid values are: D – Done Picking I – In Process LOADING – Loading N – New R – Ready To Ship S – Shipped U – Unassigned C - Consolidated
zone	NVARCHAR(10)	Optional	Zone. Used in Packing.
drop_ship	NVARCHAR(1)	Optional	Drop ship. Informational only. Suggested values are: N – No Y – Yes
lock_flag	NVARCHAR(10)	Optional	Lock flag. Informational only.

Column Name	Type	Required? – Default Value	Description
partial_order_flag	NVARCHAR(1)	Required – defaults to N	Partial order flag used in load audit to determine if an order is allowed to be partially shipped if it was short picked or over picked. Valid values are: N – No Y – Yes
earliest_ship_date	DATETIME(23)	Optional	Earliest ship date. This field is used by the TMS Integration Module.
latest_ship_date	DATETIME(23)	Optional	Latest ship date. This field is used by the TMS Integration Module.
actual_ship_date	DATETIME(23)	Optional	Actual ship date. This field is updated in the Shipping process.
earliest_delivery_date	DATETIME(23)	Optional	Earliest delivery date. This field is used by the TMS Integration Module.
latest_delivery_date	DATETIME(23)	Optional	Latest delivery date. This field is used by the TMS Integration Module.
actual_delivery_date	DATETIME(23)	Not used	
route	NVARCHAR(30)	Optional	Route.
baseline_rate	FLOAT(15)	Optional	Baseline rate for the order. Negative value indicates that it has not been rated.
planning_rate	FLOAT(15)	Optional	Planning rate for the order. This is the TL per mile cost. Negative value indicates that it does not have a rate yet.
carrier_id	INTEGER	Optional	Carrier identifier
manifest_carrier_id	INTEGER	Optional	Manifest carrier identifier
ship_via_id	INTEGER	Optional	Ship Via. Used by Advantage Link for Flagship and Warehouse Advantage Adapter For K.Motion Ship
display_order_number	NVARCHAR(30)	Optional	Order number displayed on RF and on web pages depending on conditional visibility settings. May be different from the value in order_number.

Column Name	Type	Required? – Default Value	Description
client_code	NVARCHAR(30)	Optional	For 3PLs this is the client code and matches one of the defined clients (see t_client). Otherwise, this is the warehouse identifier.
ship_to_residential_flag	NVARCHAR(1)	Optional – defaults to N	Ship to Residential Flag. Used by TMSIM and Advantage Link for Flagship.
carrier_mode	NVARCHAR(100)	Optional	Carrier Mode. Used by the TMS Integration Module.
service_level	NVARCHAR(100)	Optional	Service Level. Used by the TMS Integration Module and Advantage Link for Flagship.
ship_to_attention	NVARCHAR(30)	Optional	Ship to Attention. Used by the TMS Integration Module and Advantage Link for Flagship.
earliest_appt_time	DATETIME	Optional – defaults to 00:00	Earliest Appointment Time. This is the time of day that deliveries are allowed. Used by the TMS Integration Module.
latest_appt_time	DATETIME	Optional – defaults to 23:59	Latest Appointment Time. This is the time of day that deliveries are allowed. Used by the TMS Integration Module.
image_entity_item_id	NVARCHAR(250)	Optional	This field is used by K.Motion Image. It stores the reference to the image that was uploaded on K.Motion Image.
consolidated_order_number	NVARHAR(30)	Optional	Used in the order consolidation process to identify groups of orders being processed together during the Order Import Process.
host_group_id	NVARCHAR(36)	Optional	Used in the order consolidation process to identify which group of orders were imported together during the Import Order Process.

t_order_comment

Stores the order header and footer comment records for orders.

Note

The text field is broken up into 70 character fields for display purposes.

Application Reference: OCM

Key/Index Name	Column Name	Clustered	Unique
pk_order_comment	order_comment_id	Y	Y

Key/Index Name	Column Name	Clustered	Unique
uk_order_comment	wh_id order_number header_footer comment_type sequence	N	Y
i_order_comment_order_id	order_id	N	N
i_order_comment_ohcsw	order_number header_footer comment_type sequence wh_id	N	N
fk_order_comment_order	t_order (order_id)		
fk_order_comment_order_2	t_order (wh_id, order_number)		

Column Name	Type	Required? – Default Value	Description
order_comment_id	INTEGER IDENTITY	Optional	Unique identifier.
order_id	INTEGER(10)	Optional	Foreign key to the order table.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
order_number	NVARCHAR(30)	Required	Order identifier.
header_footer	NVARCHAR(1)	Optional – defaults to H	Valid values are: F – Footer H – Header
comment_type	NVARCHAR(1)	Optional – defaults to W	Comment type identifier. Valid values are: B – BOL Comments D – Delivery Instructions (phone, etc.) I – Ship To Address M – Miscellaneous S – Shipping Instructions (dates, backorders, etc.) T – TMSIM Instructions (used only by the TMS Integration Module) W – Warehouse

Column Name	Type	Required? – Default Value	Description
sequence	INTEGER(10)	Optional – defaults to 0	Sequence of comments.
comment_date	DATETIME(23)	Optional	Comment date.
comment_text	NVARCHAR(70)	Required	Comment text.
original_order_number	NVARCHAR(30)	Optional	Used in the order consolidation process which is populated in the Import Order process.

t_order_detail

Stores the line item detail outbound order records referenced by order number in the outbound order master table. This is information specific to the items and quantities needed for the order.

Application Reference: ORD

Key/Index Name	Column Name	Clustered	Unique
pk_order_detail	order_detail_id	Y	Y
uk_order_detail	wh_id order_number line_number	N	Y
i_order_detail_item_master_id	item_master_id	N	N
i_order_detail_stored_attribut	stored_attribute_id	N	N
i_order_detail_order_id	order_id	N	N
i_order_detail_oliw	order_number line_number item_number wh_id	N	N
fk_order_detail_order	t_order (order_id)		
fk_order_detail_order_2	t_order (wh_id, order_number)		
fk_order_detail_item_master	t_item_master (item_master_id)		
fk_order_detail_sto_id	t_sto_attr_collection_master (stored_attribute_id)		

Column Name	Type	Required? – Default Value	Description
order_detail_id	INTEGER IDENTITY	Required	Unique identifier.
order_id	INTEGER(10)	Optional	Foreign key to Order

Column Name	Type	Required? – Default Value	Description
item_master_id	INTEGER(10)	Optional	Foreign key to Item Master
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
order_number	NVARCHAR(30)	Required	Order identifier.
line_number	NVARCHAR(5)	Required	Line item of order.
item_number	NVARCHAR(30)	Required	Item identifier.
bo_qty	FLOAT(15)	Optional – defaults to 0	Quantity to backorder if necessary.
bo_description	NVARCHAR(14)	Optional	Description of backorder.
bo_weight	FLOAT(15)	Optional – defaults to 0	Weight of backorder quantity.
qty	FLOAT(15)	Required.	Quantity of item ordered. Value must be greater than zero.
afo_plan_qty	FLOAT(15)	Optional – defaults to 0	Wave planning quantity. Used by Advantage Fulfillment to track quantity left to allocate to a wave.
unit_pack	NVARCHAR(1)	Optional	Packaging units. Valid values include: E – Each C – Case/Carton L – Pound P – Piece
item_weight	FLOAT(15)	Optional – defaults to 0	Weight of item ordered.
item_tare_weight	FLOAT(15)	Optional – defaults to 0	Item tare weight.
haz_material	NVARCHAR(10)	Optional	Indicates hazardous material, and type. Informational only.
b_o_l_class	NVARCHAR(10)	Optional	Bill of lading class. Informational only.
b_o_l_line1	NVARCHAR(42)	Optional	Bill of lading line 1. Informational only.
b_o_l_line2	NVARCHAR(42)	Optional	Bill of lading line 2. Informational only.
b_o_l_line3	NVARCHAR(42)	Optional	Bill of lading line 3. Informational only.
b_o_l_plac_code	NVARCHAR(4)	Optional	Bill of lading placement code. Informational only.
b_o_l_plac_desc	NVARCHAR(25)	Optional	Bill of lading placement description. Informational only.

Column Name	Type	Required? – Default Value	Description
b_o_l_code	NVARCHAR(10)	Optional	Bill of lading code. Informational only.
qty_shipped	FLOAT(15)	Optional – defaults to 0	Actual quantity shipped of this line item. Set by Warehouse Advantage at ship time.
line_type	NVARCHAR(1)	Not used	
item_description	NVARCHAR(60)	Optional	Description of item ordered.
stacking_seq	NVARCHAR(2)	Optional	Stacking sequence of line item that is used when palletizing.
cust_part	NVARCHAR(30)	Optional	Customer part number of item ordered. Intended as a pass-through field for shipment notification. Informational only.
lot_number	NVARCHAR(15)	Optional	The lot number for the detail line can be provided if a specific lot is required for fulfillment of the order.
picking_flow	NVARCHAR(10)	Not used	
unit_weight	FLOAT(15)	Optional – defaults to 0	Unit weight. Informational only.
unit_volume	FLOAT(15)	Optional – defaults to 0	Unit volume. Informational only
extended_weight	FLOAT(15)	Optional – defaults to 0	Extended weight. Informational only.
extended_volume	FLOAT(15)	Optional – defaults to 0	Extended volume. Informational only.
over_alloc_qty	FLOAT(15)	Optional – defaults to 0	Quantity over allocated.
date_expected	DATETIME(23)	Optional	Date over allocated quantities are expected.
order_uom	NVARCHAR(10)	Optional	Unit of Measure of the order line. Informational only.
host_wave_id	NVARCHAR(20)	Optional – defaults to 0	Host wave identifier. If Advanced Fulfillment Application is not being used and orders are set to auto-release on import, this is used as the wave identifier for the associated pick details.
tran_plan_qty	FLOAT(15)	Optional – defaults to 0	Load planning quantity. Used by Advantage Fulfillment to track quantity left to allocate to a load.

Column Name	Type	Required? – Default Value	Description
use_shippable_uom	NVARCHAR(1)	Optional – defaults to N	Valid values are: N – No Y – Yes
unit_insurance_amount	FLOAT(15)	Optional – defaults to 0	Unit insurance amount. Informational only.
stored_attribute_id	BIGINT(19)	Optional	The DIA value(s) for the detail line can be provided if a specific attribute or attributes are required for fulfillment of the order
hold_reason_id	NVARCHAR(10)	Optional	The hold reason code for the detail line can be provided if a specific lot is required for fulfillment of the order. This field if used contains a valid reason code.
original_order_number	NVARCHAR(30)	Optional	Used in the order consolidation process which is populated in the Import Order process.
original_line_number	NVARCHAR(5)	Optional	Used in the order consolidation process which is populated in the Import Order process.

t_order_detail_comment

Stores the comment records for each applicable line item record in the outbound order detail table.

Note

The text field consists of 70 character fields for display purposes.

Application Reference: OCD

Key/Index Name	Column Name	Clustered	Unique
pk_order_detail_comment	order_detail_comment_id	Y	Y
uk_order_detail_comment	wh_id order_number comment_type line_number sequence	Y	Y
i_order_detail_comment_order_d	order_detail_id	N	N
i_order_detail_comment_wh_id_o	wh_id order_number line_number item_number	N	N

Key/Index Name	Column Name	Clustered	Unique
i_order_detail_comment_ocls	order_number comment_type line_number sequence wh_id	N	N
fk_order_detail_comment	t_order_detail (order_detail_id)	N	N
fk_order_detail_comment_2	t_order_detail (wh_id, order_number, line_number)	N	N

Column Name	Type	Required? – Default Value	Description
order_detail_comment_id	INTEGER IDENTITY	Required	Unique identifier.
order_detail_id	INTEGER	Optional	Foreign Key to Order Detail
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
order_number	NVARCHAR(30)	Required	Order identifier.
comment_type	NVARCHAR(1)	Optional – defaults to W	Comment type identifier. Valid values are: B – BOL Comments D – Delivery Instructions (phone, etc.) I – Ship To Address M – Miscellaneous S – Shipping Instructions (dates, backorders, etc.) W – Warehouse
line_number	NVARCHAR(5)	Required	Line Number
item_number	NVARCHAR(30)	Optional	Item identifier.
sequence	INTEGER	Optional – defaults to 0	Sequence of comments.
comment_date	DATETIME	Optional – defaults to current date	Comment date.
comment_text	NVARCHAR(70)	Required	Comment text.
orginal_order_number	NVARCHAR(30)	Optional	Used in the order consolidation process which is populated in the Import Order process.
original_line_number	NVARCHAR(5)	Optional	Used in the order consolidation process which is populated in the Import Order process.

t_order_manifest

This table contains data used by Advantage Link for Flagship. This table is a one-to-one extension of the t_order table.

Column Name	Type	Required? – Default Value	Description
order_id	INTEGER(10)	Required	Order identifier.
ship_to_attention	NVARCHAR(30)	Optional	Ship to Attention.

Column Name	Type	Required? – Default Value	Description
sat_delivery_flag	NVARCHAR(1)	Required – defaults to N	Indicates whether it is acceptable to deliver on Saturday. Valid values are: N – No Y – Yes
registered_mail_flag	NVARCHAR(1)	Required – defaults to N	Indicates whether this needs to be shipped registered mail. Valid values are: N – No Y – Yes
restricted_mail_flag	NVARCHAR(1)	Required – defaults to N	Indicates whether this is restricted mail. Valid values are: N – No Y – Yes
cod_flag	NVARCHAR(1)	Required – defaults to N	Indicates whether this is a COD shipment. Valid values are: N – No Y – Yes
cod_amount	FLOAT(15)	Optional – defaults to 0	Package COD Amount. Required if sending a package COD.
cod_pay_type	NVARCHAR(1)	Optional	Required if sending a package COD. Valid values are: c – Cash only k – Cashiers check or simple check n – Cashiers check or money order s – Standard
cod_option	NVARCHAR(1)	Optional	Required if sending a package COD. COD Option is used to decide the COD amount. Valid values are: n – COD Amount entered by user 1 – COD fee + COD Amt + freight 2 – COD fee + freight 3 – COD fee + COD Amt 4 – COD Amt+ freight
insurance_flag	NVARCHAR(1)	Optional – defaults to N	Indicates whether insurance is required. Valid values are: N – No Y – Yes

Column Name	Type	Required? – Default Value	Description
bill_frght_to_attention	NVARCHAR(30)	Optional	Person who should billed for the freight charges.

t_pack

This table holds the current order the employee is packing.

Key/Index Name	Column Name	Clustered	Unique
pk_pack	id	Y	Y
	wh_id		

Column Name	Type	Required? – Default Value	Description
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
id	NVARCHAR(10)	Required	Employee identifier.
order_number	NVARCHAR(30)	Required	Order identifier.
load_id	NVARCHAR(30)	Optional	Load identifier.
location_id	NVARCHAR(50)	Required	Location where order is staged.
date_logged	DATETIME	Required – defaults to current date	Date and time when record was inserted or updated.

t_pick_area

This table holds the pick area record.

Key/Index Name	Column Name	Clustered	Unique
pk_pick_area	wh_id	Y	Y
	pick_area		
i_pick_area_whse	pick_area, wh_id	N	N

Column Name	Type	Required? – Default Value	Description
pick_area	NVARCHAR(10)	Required	Unique pick area identifier for the warehouse.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
pick_area_type	CHAR(1)	Required – defaults to R	Indicates the type of picking within the pick area. Valid value is: R – RF
target_pick_percent	FLOAT(15)	Optional – defaults to 0	Target pick percent. Percent of all put away work targeted for the pick area.

Column Name	Type	Required? – Default Value	Description
work_type	NVARCHAR(2)	Required	Valid work type. Picking work tasks within the pick area. The value matches one of the defined picking work types (see table t_work_types).
description	NVARCHAR(500)	Optional	Pick area description.
container_class	NVARCHAR(20)	Optional	Valid container class. If used, the value matches one of the defined container classes (see table t_container_class). Used by Container Advantage.
default_printer	NVARCHAR(30)	Optional	Default printer.
premanifest_flag	CHAR(1)	Optional – defaults to N	Premanifest flag. Valid values are: N – No Y – Yes Used by Advantage Link for Flagship.
putwall_active	CHAR(3)	Optional – defaults to NO	Whether putwall is active for that pick area. Valid values: NO – No YES - Yes

t_pick_container

Notes attributes and statuses for containers used in container based picking.

Key/Index Name	Column Name	Clustered	Unique
pk_pick_container	wh_id container_id	Y	Y
i_pick_container_ordnum	order_number wh_id	N	N
i_pick_container_cntr	container_id wh_id	N	N
i_t_pick_container_key_1	container_label wh_id tracking_number manifest_status ship_via_id container_id carrier_id container_type order_number, status	N	N

	user_assigned label_status cartonization_batch_id actual_length actual_width actual_height actual_weight manifest_carrier_id sat_delivery_flag registered_mail_flag restricted_mail_flag freight_cost insurance_flag insured_amount target_ship_date actual_ship_date		
--	--	--	--

Column Name	Type	Required? – Default Value	Description
container_id	NVARCHAR(22)	Required	Container identifier. System generated, controlled though the sequence CONTAINER_ID, with a starting point of 200, increment by 1, with no cycle.
wh_id	NVARCHAR(10)	Required	Warehouse identifier.
container_type	NVARCHAR(10)	Optional	Container type.
order_number	NVARCHAR(30)	Required	Order number.
status	NVARCHAR(20)	Optional	Status. Valid values are: ACTIVE SHIPPED STAGED Used by Advantage Link for Flagship.
user_assigned	NVARCHAR(10)	Optional	User identifier.
container_label	NVARCHAR(22)	Optional	Container label identifier.
label_status	NVARCHAR(20)	Optional	Label state.
cartonization_batch_id	NVARCHAR(50)	Required	Batch identifier. Can be any value if Container Advantage is not installed.

Column Name	Type	Required? – Default Value	Description
manifest_status	NVARCHAR(100)	Optional – defaults to NONE	<p>Manifest status. Valid values for Advantage Link for Flagship:</p> <p>CLOSED</p> <p>CONFIRMED</p> <p>MANIFESTED</p> <p>NEW</p> <p>NONE</p> <p>PREMANIFESTED</p> <p>REQUESTED</p> <p>Valid values for Warehouse Advantage Adapter for K.Motion Ship:</p> <p>NEW – Used when pick area is not a premanifest pick area. Post manifest will validate.</p> <p>NONE – Used when carrier is not a manifest carrier or solution is not installed.</p> <p>PREMANIFESTED – Used when pre-manifest succeeded.</p> <p>F – PREMANIFEST – Used when pre-manifest failed.</p> <p>MANIFESTED – Used when post-manifest succeeded.</p> <p>F – MANIFEST - Used when post-manifest failed.</p> <p>VOIDED – Used when void succeeded.</p> <p>F – VOID - Used when void failed.</p> <p>P – VOID – Used when void is pending.</p> <p>SHOPPED – Used when rate shop succeeded.</p> <p>F – SHOP – Used when rate shop failed.</p> <p>IGNORE – Used if user fix the failed messages in K.Motion Ship and sets ignores failed message in “Failed Requests” page.</p> <p>DIMSET – Used in Post Manifest to identify containers that already have been measured.</p>
tracking_number	NVARCHAR(100)	Optional	<p>Parcel tracking number.</p> <p>Used by Advantage Link for Flagship.</p>

Column Name	Type	Required? – Default Value	Description
actual_length	FLOAT(15)	Optional – defaults to 0	Container length. Used by Advantage Link for Flagship.
actual_width	FLOAT(15)	Optional – defaults to 0	Container width. Used by Advantage Link for Flagship.
actual_height	FLOAT(15)	Optional – defaults to 0	Container height. Used by Advantage Link for Flagship.
actual_weight	FLOAT(15)	Optional – defaults to 0	Container weight. Used by Advantage Link for Flagship.
carrier_id	INT(10)	Optional	Carrier identifier. Used by Advantage Link for Flagship.
manifest_carrier_id	INT(10)	Optional	Manifest carrier identifier. Used by Advantage Link for Flagship.
ship_via_id	INT(10)	Optional	Ship Via. Used by Advantage Link for Flagship.
sat_delivery_flag	CHAR(1)	Optional – defaults to N	Saturday delivery flag.. Valid values are: N – No Y – Yes Used by Advantage Link for Flagship
registered_mail_flag	CHAR(1)	Optional – defaults to N	Registered mail flag. Valid values are: N – No Y – Yes Used by Advantage Link for Flagship
restricted_mail_flag	CHAR(1)	Optional – defaults to N	Restricted mail flag. Valid values are: N – No Y – Yes Used by Advantage Link for Flagship
freight_cost	FLOAT(15)	Optional – defaults to 0	Freight cost. Used by Advantage Link for Flagship.
insurance_flag	CHAR(1)	Optional – defaults to N	Insurance flag. Valid values are: N – No Y – Yes Used by Advantage Link for Flagship

Column Name	Type	Required? – Default Value	Description
insured_amount	FLOAT(15)	Optional – defaults to 0	Insured amount. Used by Advantage Link for Flagship.
target_ship_date	DATETIME(23)	Optional	Target ship date.
actual_ship_date	DATETIME(23)	Optional	Actual ship date. Used by Advantage Link for Flagship.
shipment_id	NVARCHAR(25)	Optional	Shipment ID. Used in Warehouse Advantage Adapter for K.Motion Ship.
print_sequence	INTEGER	Optional	Used in Warehouse Advantage Adapter for K.Motion Ship. Indicates the sequence in which to print labels for a shipment in Post Manifest.
print_data	NVARCHAR(MAX)	Optional	ZPL or raw PNG data for label printing. Used in Warehouse Advantage Adapter for K.Motion Ship.
bol_number	NVARCHAR(50)	Optional	Bill of lading number. Used in Warehouse Advantage Adapter for K.Motion Ship.
created_date	DATETIME	Required – defaults to current date	The date and time that the pick detail was created.

t_pick_detail

This table contains pick detail records that represent definition and state information for picking tasks.

Key/Index Name	Column Name	Clustered	Unique
pk_pick_detail	pick_id	Y	Y
i_work_q	work_q_id	N	N
i_status	status	N	N
i_wave_id	wave_id	N	N
i_item_number	item_number	N	N
i_load_id	load_id	N	N
i_pick_detail_stored_attribute	stored_attribute_id	N	N
i_order_number	order_number wh_id	N	N

i_user_assigned	wh_id user_assigned	N	N
i_t_pick_detail_key_1	load_id item_number order_number pick_id wh_id	N	N
i_pick_detail_cntr	container_id wh_id	N	N
fk_pkd_sto_id	t_sto_attrib_collection_master (stored_attribute_id)		

Column Name	Type	Required? – Default Value	Description
pick_id	INT IDENTITY(10)	Required	Pick detail record identifier.
order_number	NVARCHAR(30)	Required	Valid order number.
line_number	NVARCHAR(5)	Required	Order line number.
type	NVARCHAR(2)	Optional	Type of task. Valid values are: PM – Planned Move PP – Planned Pick RP – Replenishment
uom	NVARCHAR(10)	Optional	Unit of measure.
work_q_id	NVARCHAR(30)	Optional	Valid work queue identifier.
work_type	NVARCHAR(2)	Optional	Work type. Ties to t_allocation.
status	NVARCHAR(10)	Optional	Status. Valid values are: PRERLSE (<i>Prerelease</i>) CARTONIZE CREATED (<i>Prevents picking items that can't be cartonized by Container Advantage but are in a container pick area</i>) RELEASED PICKED (<i>Used by Execute Planned Moves Only</i>) STAGED LOADED SHIPPED
item_number	NVARCHAR(30)	Required	Item number.

Column Name	Type	Required? – Default Value	Description
lot_number	NVARCHAR(15)	Optional	Lot number.
serial_number	NVARCHAR(30)	Optional	Serial number.
unplanned_quantity	FLOAT(15)	Optional	Unplanned quantity. Informational only.
planned_quantity	FLOAT(15)	Required	Planned quantity.
picked_quantity	FLOAT(15)	Required	Picked quantity. Populated during picking.
staged_quantity	FLOAT(15)	Required	Staged Quantity.
loaded_quantity	FLOAT(15)	Required	Loaded Quantity.
packed_quantity	FLOAT(15)	Required	Packed Quantity.
shipped_quantity	FLOAT(15)	Required	Shipped Quantity.
staging_location	NVARCHAR(50)	Optional	Staging location.
zone	NVARCHAR(20)	Optional	Zone.
wave_id	NVARCHAR(20)	Optional	Wave identifier.
load_id	NVARCHAR(30)	Optional	Load identifier.
load_sequence	INT(10)	Optional	Load sequence.
stop_id	NVARCHAR(20)	Optional	Stop identifier.
container_id	NVARCHAR(22)	Optional	Pick container identifier. Ties to t_pick_container.
pick_category	NVARCHAR(10)	Optional	Pick category.
user_assigned	NVARCHAR(10)	Optional	The field is set to the user who performs the pick. The value is retained after the pick has been completed. The value is cleared if the pick is unpicked.
bulk_pick_flag	CHAR(1)	Optional	Bulk picking flag.
stacking_sequence	INT(10)	Optional	Stacking sequence.
pick_area	NVARCHAR(10)	Optional	Pick area. Ties to t_allocation.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
cartonization_batch_id	NVARCHAR(60)	Optional	Cartonization batch identifier. Used by Container Advantage.
manifest_batch_id	NVARCHAR(50)	Optional	Manifest batch identifier
stored_attribute_id	BIGINT(19)	Optional	DIA stored attribute collection identifier for the pick.
created_date	DATETIME	Required – defaults to current date	The date and time that the pick detail was created.
before_pick_rule	NVARCHAR(30)	Optional	Holds the rule used to determine the pick location.

Column Name	Type	Required? – Default Value	Description
during_pick_rule	NVARCHAR(30)	Optional	Holds the rule used by usp_during_pick to determine the pick location. Only filled in if usp_during_pick found a different location than the previous location on the PKD or if a different pick rule was used to find the same location.
hold_reason_id	NVARCHAR(10)	Optional	Hold reason code for the pick. Links to reason_id in t_reason table
destination_zone	NVARCHAR(20)	Optional	Destination Zone to be used for outsourcing

t_pick_pass_sequence

Stores the pick area sequence a tote will travel through, which is used for pick/pass order functionality.

Application Reference:

Key/Index Name	Column Name	Clustered	Unique
pk_pick_pass_sequence	pick_area wh_id	Y	Y
fk_pick_pass_seq_loc	t_location (location_id, wh_id)		
fk_pick_pass_seq_loc_pd	t_location (location_id, wh_id)		

Column Name	Type	Required? – Default Value	Description
wh_id	NVARCHAR(10)	Required	Warehouse identifier.
pick_area	NVARCHAR(10)	Required	The pick area name.
pick_area_seq	INTEGER	Required	The pick pass sequence of pick areas.
pick_area_next	NVARCHAR(10)	Optional	Next pick area the tote will move to.
location_id_conveyor	NVARCHAR(50)	Optional	The conveyor location the tote will travel on from pick area to pick area.
location_id_pd	NVARCHAR(50)	Optional	The pickup and delivery location a tote can be placed in for the pick area.

t_pick_put_detail

Stores the pick-put profile identifier and the rule title and sequence the rules in the set are executed at run time for the pick-put profile.

Application Reference: PPD

Key/Index Name	Column Name	Clustered	Unique
pk_pick_put_detail	pick_put_id type rule_id sequence	Y	Y
i_pick_put_detail_type_rule_id	type rule_id	N	N
fk_pick_put_master	t_pick_put_master (pick_put_id)		
fk_pick_put_rules	t_pick_put_rules (type, rule_id)		

Column Name	Type	Required? – Default Value	Description
pick_put_id	NVARCHAR(15)	Required	Unique identifier of the pick-put profile.
type	NVARCHAR(10)	Required	The type of rule. Valid values are: PICK – Picking PICKH – Picking for Held Inventory PUT – Put-away PUTH – Put-away for Held Inventory RPLN – Replenishment
rule_id	NVARCHAR(30)	Required	The title of the rule.
sequence	SMALLINT(5)	Required	The sequence number given to each rule in the rule set.

t_pick_put_master

Stores the pick-put profile identifier and description for the hierarchical set of picking and put-away rules.

Application Reference: PPM

Key/Index Name	Column Name	Clustered	Unique
pk_pick_put_master	pick_put_id	Y	Y

Column Name	Type	Required? – Default Value	Description
pick_put_id	NVARCHAR(15)	Required	Unique identifier for the pick-put profile.
description	NVARCHAR(100)	Optional	An easy to understand description of the pick-put profile and its set of rules.
override_id	NVARCHAR(15)	Optional	The pick-put profile identifier of the set of override rules to use for this pick-put profile.

t_pick_put_rules

Stores the rule type, title, and description, along with its before and during stored procedure name.

Application Reference: PPR

Key/Index Name	Column Name	Clustered	Unique
pk_pick_put_rules	type	Y	Y
	rule_id		

Column Name	Type	Required? – Default Value	Description
type	NVARCHAR(10)	Required	Identifies the type of rule. Valid values are: PICK – Picking PICKH – Picking for Held Inventory PUT – Put-away PUTH – Put-away for Held Inventory RPLN – Replenishment
rule_id	NVARCHAR(30)	Required	The title of the rule.
description	NVARCHAR(100)	Optional	A simple description of the rule.
before	NVARCHAR(40)	Required	The title of the stored procedure used before a pick or put-away.
during	NVARCHAR(40)	Required	The title of the stored procedure used during a pick or put-away.

t_pick_task_uom

This table contains data used by Container Advantage.

Key/Index Name	Column Name	Clustered	Unique
ui_pick_task_uom	wh_id	Y	Y
	cartonization_batch_id		
	planned_actual		
	line_number		
	pick_id		
	item_number		
	lot_number		
	uom		
	pattern		

Column Name	Type	Required? – Default Value	Description
wh_id	NVARCHAR(10)		
cartonization_batch_id	NVARCHAR(50)		
planned_actual	CHAR(1)	P	Valid values are: A – Actual P – Planned
line_number	NVARCHAR(5)	0	
pick_id	INT		
item_number	NVARCHAR(30)		
lot_number	NVARCHAR(15)		
uom	NVARCHAR(10)		
pattern	NVARCHAR(20)		
qty	FLOAT	0	

t_po_comment

Stores the order comments for the inbound order record.

Note

The text field is broken up into 70 character fields for display purposes.

Application Reference: POC

Key/Index Name	Column Name	Clustered	Unique
pk_po_comment	po_number comment_type sequence wh_id	Y	Y
i_po_comment_po_number_wh_id	po_number wh_id	N	N
fk_po_master_2	t_po_master (po_number, wh_id)		

Column Name	Type	Required? – Default Value	Description
po_number	NVARCHAR(30)	Required	Inbound order identifier.
comment_type	NVARCHAR(1)	Required – defaults to R	Comment type. Valid values are: R – Receiving T – TMSIM Instructions (<i>Used by TMSIM only</i>)
comment_date	DATETIME	Optional – defaults to import date	Date of comment creation.
comment_text	NVARCHAR(70)	Required	Comment text.
sequence	INTEGER	Optional – defaults to 0	Sequence number of this comment.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.

t_po_detail

Stores the inbound order line item detail records.

Application Reference: POD

Key/Index Name	Column Name	Clustered	Unique
pk_po_detail	po_number line_number schedule_number wh_id	Y	Y
i_po_detail_item_line_sch_wh	po_number item_number line_number schedule_number wh_id	N	N
i_po_detail_location_id_wh_id	location_id wh_id	N	N
i_po_detail_po_number_wh_id	po_number wh_id	N	N
i_po_detail_wh_id	wh_id	N	N
i_po_detail_stored_attribute	stored_attribute_id	N	N

Key/Index Name	Column Name	Clustered	Unique
i_po_detail_item_number_wh_id	item_number wh_id	N	N
fk_po_master_1	t_po_master (po_number, wh_id)		
fk_po_location	t_location (location_id, wh_id)		
fk_po_detail_whid	t_whse (wh_id)		
fk_po_item_master	t_item_master (item_number, wh_id)		
fk_po_detail_sto_id	t_sto_attrib_collection_master (stored_attribute_id)		

Column Name	Type	Required? – Default Value	Description
po_number	NVARCHAR(30)	Required	Inbound order identifier.
line_number	NVARCHAR(5)	Required	Inbound order line number.
item_number	NVARCHAR(30)	Required	Item identifier.
schedule_number	INT(10)	Optional – defaults to 0	Schedule number for the detail line.
qty	FLOAT(15)	Required	Quantity of the item for the detail line. The value must be greater than zero.
vendor_item_number	NVARCHAR(30)	Optional	Vendor item identifier. Intended as a pass-through field. Informational only.
delivery_date	DATETIME(23)	Optional – defaults to 1/1/1900	Delivery date.
originator	NVARCHAR(25)	Optional	Informational only.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
order_uom	NVARCHAR(10)	Optional	Unit of Measure for the order line. If this UOM exists for the item, this is the default receipt UOM used.
special_processing	NVARCHAR(3)	Not used	
location_id	NVARCHAR(50)	Not used	
distro_process	NVARCHAR(3)	Not used	
vas_profile_id	INT(10)	Optional	Can be used to apply Inbound VAS to the item on the detail line. The value matches one of the configured VAS Profiles.

Column Name	Type	Required? – Default Value	Description
stored_attribute_id	BIGINT(19)	Optional	If DIA is used and configured for the item on the detail line, values for attributes are provided if required for validation in receiving the order. Note that values are not required for each of the attributes within the attribute collection for an item. For example, if an item has an attribute collection of both color and size, it is possible to specify that the order requires only a specific size (e.g., XL) and any color can be used.
earliest_ship_date	DATETIME	Optional – defaults to 1/1/1900	Earliest ship date. Used by the TMS Integration Module.
latest_ship_date	DATETIME	Optional – defaults to 1/1/1900	Latest ship date. Used by the TMS Integration Module.
earliest_delivery_date	DATETIME	Optional – defaults to 1/1/1900	Earliest delivery date. Used by the TMS Integration Module.
latest_delivery_date	DATETIME	Optional – defaults to 1/1/1900	Latest delivery date. Used by the TMS Integration Module.
closed_date	DATETIME	Optional	Record closed date
sort_type	NVARCHAR(30)	Optional	Criteria for ordering what is being received

t_po_detail_comment

Stores the comment records for the related line items of the inbound order detail record.

Note

The text field is broken up into 70 character fields for display purposes.

Application Reference: PCD

Key/Index Name	Column Name	Clustered	Unique
pk_po_detail_comment	po_detail_comment_id	Y	Y
uk_po_detail_comment	wh_id po_number comment_type line_number schedule_number sequence	N	Y

Key/Index Name	Column Name	Clustered	Unique
i_po_detail_comment_po_number	po_number item_number line_number schedule_number wh_id	N	N
fk_po_detail_comment_2	t_po_detail (po_number, line_number, schedule_number, wh_id)		

Column Name	Type	Required? – Default Value	Description
po_detail_comment_id	INTEGER IDENTITY(10)	Required	Inbound order detail comment identifier.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
po_number	NVARCHAR(30)	Required	Inbound order identifier.
line_number	NVARCHAR(5)	Required	Line number for the comment.
item_number	NVARCHAR(30)	Optional	Item identifier.
schedule_number	INTEGER(10)	Optional – defaults to 0	Schedule number for the comment.
sequence	INTEGER(10)	Optional – defaults to 0	Sequence number of comment.
comment_type	NVARCHAR(1)	Optional – defaults to R	Comment type. Valid values are: R - Receiving
comment_date	DATETIME(23)	Optional – defaults to import date	Date of comment creation.
comment_text	NVARCHAR(70)	Required	Comment text.

t_po_master

Stores the inbound order master records.

Application Reference: POM

Key/Index Name	Column Name	Clustered	Unique
pk_po_master	po_number wh_id	Y	Y
uk_po	po_id	N	Y
i_po_master_type_id	type_id	N	N
i_po_master_vendor_code	vendor_code	N	N
i_po_master_wh_id	wh_id	N	N
i_po_master_display	display_po_number client_code wh_id po_number	N	N
fk_po_master_type	t_lookup (lookup_id)		
fk_po_master_whid	t_whse (wh_id)		
fk_po_master_vendor	t_vendor (vendor_code)		
fk_po_master_client_code	t_client (wh_id, client_code)		

Column Name	Type	Required? – Default Value	Description
po_id	INTEGER IDENTITY	Required	Unique identifier.
po_number	NVARCHAR(30)	Required	Inbound order identifier.
type_id	INTEGER	Optional.	Used to differentiate between inbound order types. Valid values are: Purchase Orders Return Orders Transfer Orders
vendor_code	NVARCHAR(10)	Optional	Valid vendor identifier.
create_date	DATETIME	Optional – defaults to import date	Creation date of the order.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.

Column Name	Type	Required? – Default Value	Description
status	NVARCHAR(1)	Optional – defaults to O	Valid values are: C – Closed O – Open
display_po_number	NVARCHAR(30)	Optional	PO number displayed on RF and on web pages depending on conditional visibility settings. May be different from the value in po_number.
client_code	NVARCHAR(30)	Optional	For 3PLs this is the client code and matches one of the defined clients (see t_client). Otherwise, this is the warehouse identifier.
residential_flag	NVARCHAR(1)	Optional – defaults to N	Residential address. Valid values are: N – No Y – Yes Used by the TMS Integration Module.
ship_from_name	NVARCHAR(30)	Optional	Ship from name. Used by the TMS Integration Module.
ship_from_addr1	NVARCHAR(30)	Optional	Ship from address line 1. Used by the TMS Integration Module.
ship_from_addr2	NVARCHAR(30)	Optional	Ship from address line 2. Used by the TMS Integration Module.
ship_from_city	NVARCHAR(30)	Optional	Ship from city. Used by the TMS Integration Module.
ship_from_state	NVARCHAR(3)	Optional	Ship from state/region. Used by the TMS Integration Module.
ship_from_postal_code	NVARCHAR(12)	Optional	Ship from postal code. Used by the TMS Integration Module.
ship_from_country_code	NVARCHAR(5)	Optional	Ship from country code. Used by the TMS Integration Module.
ship_from_attention	NVARCHAR(30)	Optional	Ship from attention name. Used by the TMS Integration Module.
ship_from_phone	NVARCHAR(30)	Optional	Ship from phone. Used by the TMS Integration Module.
ship_from_fax	NVARCHAR(30)	Optional	Ship from fax. Used by the TMS Integration Module.
appointment_number	NVARCHAR(50)	Optional	WA Adapter for Schedule field - appointment number.

Column Name	Type	Required? – Default Value	Description
scheduled_location	NVARCHAR(50)	Optional	WA Adapter for Schedule field - scheduled location.
scheduled_start	DATETIME	Optional	WA Adapter for Schedule field - scheduled start time.
appointment_status	NVARCHAR(100)	Optional	WA Adapter for Schedule field – appointment status.
carrier_scac	NVARCHAR(50)	Optional	Standard Carrier Alpha Code. Used by the TMS Integration Module.
carrier_mode	NVARCHAR(100)	Optional	Carrier mode. Used by the TMS Integration Module.
service_level	NVARCHAR(100)	Optional	Carrier service level. Used by the TMS Integration Module.
freight_terms	NVARCHAR(100)	Optional	Freight terms. Valid values are: Prepaid Collect thirdparty Used by the TMS Integration Module.
image_entity_item_id	NVARCHAR(250)	Optional	This field is used by K.Motion Image. It stores the reference to the image that was uploaded on K.Motion Image.
closed_date	DATETIME	Optional	Record closed date

t_printer

Stores information about the printers in the system.

Application Reference: PRT

Key/Index Name	Column Name	Clustered	Unique
PK_printer	wh_id	Y	Y
	printer_id		
FK_printer_whse	t_whse (wh_id)		

Column Name	Type	Required? – Default Value	Description
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
printer_id	NVARCHAR(15)	Required	Printer identifier.
printer_name	NVARCHAR(15)	Required	Printer name or description

Column Name	Type	Required? – Default Value	Description
folder	NVARCHAR(50)	Required	Folder that contains printing flat files.
name_file	NVARCHAR(15)	Optional	Flat file name.
type	NVARCHAR(5)	Required	Flat file extension for printers. Valid values are: bch – Batch printers FLAG – Flagship label printers.
separator	NVARCHAR(15)	Required	Field separator in flat file.
name_label	NVARCHAR(30)	Required	Label templates file Name.
name_label_batch	NVARCHAR(30)	Required	Batch header label template's file name.
pick_area	NVARCHAR(10)	Required	Pick area where the printer belongs to in the warehouse.
status	CHAR(1)	Required	Status. Valid values: A – Available U – Unavailable
printer_ip	NVARCHAR(100)	Optional	Printer IP or DNS name.
printer_port	NVARCHAR(8)	Optional	Printer port.
flagship_type	NVARCHAR(20)	Optional	Flagship printer type. Must match setting in Flagship if used. Warehouse Advantage Adapter for K.Motion Ship for Print Manager: 0 – ZPL 1 – PDF
pm_user_id	NVARCHAR(36)	Optional	Warehouse Advantage Adapter for K.Motion Ship uses this field to store user id (guid) for Print Manager in Körber One.
pm_user_pass	NVARCHAR(30)	Optional	Warehouse Advantage Adapter for K.Motion Ship uses this field to store user's password for Print Manager Körber One.
pm_print_man_url	NVARCHAR(100)	Optional	Warehouse Advantage Adapter for K.Motion Ship uses this field to store platform URL for Print Manager. This is the print manager URL (e.g.: http://HJSWEB:30000/odata).

t_process_control

Stores control values for various processes to use.

Application Reference: PROC

Key/Index Name	Column Name	Clustered	Unique
ui_process_control	wh_id	N	Y
	process_type		
	control_name		
fk_tpc_whid	t_whse (wh_id)	N	N

Column Name	Type	Required? – Default Value	Description
process_control_id	INTEGER IDENTITY(1,1)	Required	Identity Column
wh_id	NVARCHAR(10)	Required	Warehouse ID
process_type	NVARCHAR(50)	Required	Type of process for the control
description	NVARCHAR(100)	Optional	Description of the control
tran_code	NVARCHAR(3)	Optional	Transaction Code
work_type	NVARCHAR(2)	Optional	Work Type
control_name	NVARCHAR(50)	Required	Name of the control value
control_value1	NVARCHAR(50)	Optional	The first control_value
control_value2	NVARCHAR(50)	Optional	The second control_value
control_value3	NVARCHAR(50)	Optional	The third control_value

Base Control Values

These Process Control values are maintained in Warehouse Advantage Base Web under Warehouse Setup > Warehouses > Process Controls.

Process Type	Control Name	Default control_value1	Description
PUTWALL	ENABLED	NO	Indicates whether or not Putwall is enabled. YES – Putwall is enabled NO – Putwall is disabled

Process Type	Control Name	Default control_value1	Description
PUTWALL	DROP_TYPE	DROP_ALL	<p>The drop type setting for Putwall.</p> <p>DROP_ALL – Users will be instructed to drop inventory to a Putwall staging location, for later sorting to the putwall.</p> <p>USER_SORT – Users will be instructed to sort directly to Putwall locations.</p>
PUTWALL	ASSIGN_CONTROL_TYPE	VOLUME	<p>The type of capacity to check for available putwall zones when releasing orders.</p> <p>VOLUME – Putwall zones will be chosen by the most available volume</p> <p>ORDER_COUNT – Putwall zones will be chosen by the zone with the least number of orders in the zone.</p>
PUTWALL	ORDERS_PER_LOOP	2	<p>During the release process, the number of orders that will be assigned to a single putwall zone at the same time.</p>
PUTWALL	PTP_SLEEP	10000	<p>Number of milliseconds that the Putwall to Pack Listener will sleep between loops.</p>

t_prod_stds

Stores productivity standards for labor management reporting purposes in Dashboard.

Application Reference:

Column Name	Type	Required? – Default Value	Description
transaction_code	CHAR(3)	Required	Transaction type.
description	NVARCHAR(50)	Optional	Description of the transaction.
fixed_std	NUMERIC(18,0)	Required	Fixed (engineered) standard in seconds.
dynamic_std	NUMERIC(18,0)	Required – defaults to 1	Dynamic (calculated) standard in seconds.
dynamic_std_date	DATETIME	Optional	Date dynamic standard was last calculated.
work_type	CHAR(2)	Not used	
cost_per_hour	FLOAT	Optional	Hourly cost for the transaction.

t_putaway_listener

This table stores information about item numbers that are on the fork location and they will be processed by putaway listener and lookup the putaway location.

Application Reference: PTL

Key/Index Name	Column Name	Clustered	Unique
pk_putaway_listener	putaway_id	Y	Y
i_putaway_sto_status	sto_id status priority	N	N

Column Name	Type	Required? – Default Value	Description
putaway_id	INTEGER IDENTITY(1,1)	Required	Unique identifier for the record.
wh_id	NVARCHAR(10)	Required	Warehouse identifier.
employee_id	NVARCHAR(10)	Required	Employee identifier.
location_id	NVARCHAR(50)	Required	Location identifier for the equipment. The value matches one of the defined locations for the location type F (forklift).
sto_id	BIGINT	Required	Unique stored item identifier.
status	NCHAR(1)	Required – defaults to N	Status of the record to be processed by putaway listener. Valid values are: N – New C – Completed E – Error
priority	INTEGER	Required – defaults to 10	Priority to be processed with the putaway listener, the priority is bumped up by Putaway Process if the Item Number putaway location is required.
date_added	DATETIME	Required – defaults to current date	Date record created.
date_processed	DATETIME	Optional	Date when the record has been processed
error_message	NVARCHAR(100)	Optional	Optimization error message.

t_putwall_em_orders

Stores a record of all complete orders on user's equipment at the beginning of Putwall's Express Move if the control values are enabled.

Application Reference:

Key/Index Name	Column Name	Clustered	Unique
i_unique_id	unique_id	Y	Y

Column Name	Type	Required? – Default Value	Description
unique_id	INTEGER IDENTITY(1,1)	Required	Identity Column
wh_id	NVARCHAR(10)	Required	Warehouse identifier
employee_id	NVARCHAR(10)	Required	Employee identifier
order_number	NVARCHAR(30)	Required	Completed order numbers on equipment

t_pw_assign_zone

Stores the data used to assign putwall zones for debugging purposes.

Application Reference:

Key/Index Name	Column Name	Clustered	Unique
pk_pw_assign_zone	col_id	Y	Y

Column Name	Type	Required? – Default Value	Description
col_id	INTEGER IDENTITY(1,1)	Required	Identity Column
col_text1	NVARCHAR(MAX)	Optional	Text column to store any data.
col_text2	NVARCHAR(MAX)	Optional	Text column to store any data.

t_rcpt_ship

This table is used in the Receipt of Shipment process. It stores all the data needed to receive a shipment. The records are static in nature and updated during runtime.

Application Reference: RSM

Key/Index Name	Column Name	Clustered	Unique
pk_rcpt_ship	wh_id shipment_number	N	Y
i_rcpt_ship_carrier_id	carrier_id	N	N

Column Name	Type	Required? – Default Value	Description
wh_id	NVARCHAR(10)	Required	Warehouse ID.
shipment_number	NVARCHAR(30)	Required	Shipment number.
carrier_id	INT	Required	Carrier identifier.
trailer_number	NVARCHAR(20)	Optional	Trailer number.
appointment_number	NVARCHAR(50)	Optional	WA Adapter for Schedule field - appointment number.
scheduled_location	NVARCHAR(50)	Optional	WA Adapter for Schedule field - scheduled location.
scheduled_start	DATETIME	Optional	WA Adapter for Scheduled field - scheduled start time.
scheduled_duration	INTEGER	Optional	WA Adapter for Schedule field - scheduled duration of appointment.

Column Name	Type	Required? – Default Value	Description
appointment_status	NVARCHAR(100)	Optional	WA Adapter for Schedule field – appointment status.
date_expected	DATETIME(23)	Optional	Date expected.
date_received	DATETIME(23)	Optional	Date received.
date_shipped	DATETIME(23)	Optional	Dates shipped.
status	NVARCHAR(10)	Optional – defaults to O	Shipment status. Valid values are: C – Closed O – Open R – Reconciled
comments	NVARCHAR(200)	Optional	Comments.
workers_assigned	INT	Optional – defaults to 0	The number of workers assigned to receive this shipment.
pro_number	VNARCHAR(30)	Optional	Bill of Lading PRO Number.

t_rcpt_ship_po

This table is used in the Receipt of Shipment process. It is used to relate which inbound orders to expect on each shipment.

Application Reference: RPM

Key/Index Name	Column Name	Clustered	Unique
pk_rcpt_ship_po	wh_id shipment_number po_number	N	Y
i_rcpt_ship_po_po_number_wh_id	po_number wh_id	N	N
fk_rcpt_ship_po_number	t_po_master (po_number, wh_id)		
fk_rcpt_ship_po_rcpt_ship	t_rcpt_ship (wh_id, shipment_number)		

Column Name	Type	Required? – Default Value	Description
wh_id	NVARCHAR(10)	Required	Warehouse ID.
shipment_number	NVARCHAR(30)	Required	Shipment number.
po_number	NVARCHAR(30)	Required	ed. PO number.

Column Name	Type	Required? – Default Value	Description
cases_expected	FLOAT(15)	Optional – defaults to 0	<i>Required.</i> Expected cases.
cases_received	FLOAT(15)	Optional – defaults to 0	<i>Required.</i> Received cases.
open_to_buy_date	DATETIME(23)	Not used.	

t_rcpt_ship_po_detail

This table is used in the Receipt of Shipment process. This stores the line detail data for each inbound order on the shipment.

Application Reference: RPD

Key/Index Name	Column Name	Clustered	Unique
pk_rcpt_ship_po_detail	wh_id shipment_number po_number line_number item_number schedule_number	N	Y
i_rcpt_ship_po_detail_po_numbe	po_number wh_id	N	N
fk_rcpt_ship_po_detail	t_rcpt_ship_po (wh_id, shipment_number, po_number)		
fk_rcpt_ship_po_number2	t_po_master (po_number, wh_id)		

Column Name	Type	Required? – Default Value	Description
wh_id	NVARCHAR(10)	Required	Warehouse ID.
shipment_number	NVARCHAR(30)	Required	Shipment number.
po_number	NVARCHAR(30)	Required	Inbound order number.
line_number	NVARCHAR(5)	Required	Line number.
item_number	NVARCHAR(30)	Required	Item number.
schedule_number	INT(10)	Optional – defaults to 0	Schedule number.

Column Name	Type	Required? – Default Value	Description
expected_qty	FLOAT(15)	Required	Expected quantity. Value must be greater than zero.
received_qty	FLOAT(15)	Optional – defaults to 0	Received quantity. Received quantity is set during shipment reconciliation.
reconciled_date	DATETIME(23)	Optional	Date the detail line was reconciled.
status	NVARCHAR(10)	Optional – defaults to O	Status. Valid values are: H – Host (Sent to Host) O – Open R – Reconciled

t_reason

Stores the reason codes and descriptions for validation purposes.

Application Reference: REA

Key/Index Name	Column Name	Clustered	Unique
pk_reason	reason_id type	Y	Y

Column Name	Type	Required? – Default Value	Description
reason_id	NVARCHAR(10)	Required	Reason code.
description	NVARCHAR(50)	Required	Description of reason.
type	NVARCHAR(25)	Required	Type of reason code. Valid values are: ASNRECEIPT ATTRIBUTE TRANSFER INVENTORY ADJUSTMENT QUALITY CONTROL RCPTOFSHIP RECALL RECEIPT DAMAGED VAS DAMAGE

Column Name	Type	Required? – Default Value	Description
action	CHAR(1)	Optional	Action taken by the system during inventory adjustment. Valid values are: N – Do Not Adjust Inventory P – Prompt User Y – Adjust Inventory

t_recall

Stores the item recall information.

Application Reference: REC

Key/Index Name	Column Name	Clustered	Unique
pk_recall	recall_id	Y	Y
i_recall_key_1	wh_id item_number lot_number reason_id	N	N
i_recall_key_2	item_number lot_number wh_id stored_attribute_id	N	N
i_recall_key_3	source_item_number source_lot_number wh_id source_stored_attribute_id	N	N

Column Name	Type	Required? – Default Value	Description
recall_id	INT	Required	Unique identifier for the recall.
session_guid	NVARCHAR(36)	Required	Unique system identifier from the t_recall_workbench, created when a recall is added.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
item_number	NVARCHAR(30)	Required	Item number for the recall.

Column Name	Type	Required? – Default Value	Description
display_item_number	NVARCHAR(30)	Optional	Item number displayed on RF and on web pages depending on conditional visibility settings. May be different from the value in item_number.
client_code	NVARCHAR(30)	Optional	For 3PLs this is the client code and matches one of the defined clients (see t_client).
lot_number	NVARCHAR(15)	Optional	Lot number of the recalled item. Only used for items with full lot control.
stored_attribute_id	BIGINT	Optional	Stored Attribute Collection identifier of the recalled item. Only used for items with dynamic item attributes.
reason_id	NVARCHAR(10)	Required	Reason for the recall. Reason identifier from t_reason with type = 'RECALL'.
description	NVARCHAR(50)	Optional	Recall description.
recall_type	CHAR(1)	Required – defaults to I	This flag determines the type of recall; if the recall includes additional items that consumed the recalled item or its components. Valid values are: C – Item and Consumers F – Item and Family Tree I – Item only
created_by	NVARCHAR(255)	Required	WebWise user name of the user who created the recall.
date_created	DATETIME	Required	Date of the recall.
rescinded_by	NVARCHAR(255)	Optional	WebWise user name of the user who rescinded the recall.
date_rescinded	DATETIME	Optional	Date of the rescind.
release_holds	CHAR(1)	Optional	Indicates if holds were released when the recall was rescinded. Valid values are: N – NO Y – YES
source_item_number	NVARCHAR(30)	Optional	This is only set when recall_type of C or F is used. This the item_number from the recall that caused this related item to be recalled.
source_lot_number	NVARCHAR(15)	Optional	This is only set when recall_type of C or F is used. This the lot_number from the recall that caused this related item to be recalled.
source_stored_attribute_id	BIGINT	Optional	This is only set when recall_type of C or F is used. This the stored_attribute_id from the recall that caused this related item to be recalled.

t_recall_workbench

Stores the item recall information that will be transferred into t_recall.

Application Reference: RWB

Key/Index Name	Column Name	Clustered	Unique
pk_recall	recall_workbench_id	Y	Y
i_recall_workbench_key_1	session_guid created_by	N	N
i_recall_workbench_key_2	session_guid item_number lot_number stored_attribute_id	N	N
i_recall_workbench_key_3	session_guid source_item_number source_lot_number source_stored_attribute_id	N	N

Column Name	Type	Required? – Default Value	Description
recall_workbench_id	INT IDENTITY	Required	Unique identifier for the row.
session_guid	NVARCHAR(36)	Required	Unique identifier for records created by user during session.
client_code	NVARCHAR(30)	Optional	For 3PLs this is the client code and matches one of the defined clients (see t_client).
item_number	NVARCHAR(30)	Required	Item number
display_item_number	NVARCHAR(30)	Optional	Item number displayed on RF and on web pages depending on conditional visibility settings. May be different from the value in item_number.
lot_number	NVARCHAR(15)	Optional	Lot number of the recalled item. Only used for items with full lot control.
stored_attribute_id	BIGINT	Optional	Stored Attribute Collection identifier of the recalled item. Only used for items with dynamic item attributes.
reason_id	NVARCHAR(10)	Required	Reason for the recall. Reason identifier from t_reason with type = 'RECALL'.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
description	NVARCHAR(50)	Optional	Recall description.

Column Name	Type	Required? – Default Value	Description
recall_type	CHAR(1)	Required	This flag determines the type of recall; if the recall includes additional items that consumed the recalled item or its components. Valid values are: C - Item and Consumers F – Item and Family Tree I – Item only
created_by	NVARCHAR(255)	Required	WebWise user name of the user who created the recall.
source_item_number	NVARCHAR(30)	Optional	This is only set when recall_type of C or F is used. This the item_number from the recall that caused this related item to be recalled.
source_lot_number	NVARCHAR(15)	Optional	This is only set when recall_type of C or F is used. This the lot_number from the recall that caused this related item to be recalled.
source_stored_attribute_id	BIGINT	Optional	This is only set when recall_type of C or F is used. This the stored_attribute_id from the recall that caused this related item to be recalled.

t_receipt

Contains information on items/quantities received through the inbound processes.

Application Reference: RCP

Key/Index Name	Column Name	Clustered	Unique
pk_receipt_identity	receipt_identity	Y	Y
i_receipt	receipt_id po_number hu_id item_number lot_number line_number schedule_number tran_status wh_id stored_attribute_id	N	Y

Column Name	Type	Required? – Default Value	Description
receipt_identity	INT IDENTITY	Required	Unique identifier for the row.
receipt_id	NVARCHAR(30)	Required	Receipt identifier. Receiver for Inbound Order and ASN receipts. System generated, controlled though the sequence RECEIPT_ID, with a starting point of 1, increment by 1, with no cycle.
vendor_code	NVARCHAR(10)	Optional	Vendor identifier.
po_number	NVARCHAR(30)	Optional	Inbound order identifier.
receipt_date	DATETIME(23)	Required – defaults to current date	Date of receipt.
scac_code	NVARCHAR(30)	Optional	Standard Carrier Alpha Code.
status	CHAR(1)	Optional – defaults to O	Receiver status indicator. Valid values are: C – Closed O – Open
item_number	NVARCHAR(30)	Required	Item identifier.
lot_number	NVARCHAR(15)	Optional	Lot number if the item is set to lot control for inbound processes.
line_number	NVARCHAR(5)	Optional	Inbound order line number.
schedule_number	INT(10)	Optional – defaults to 0	Inbound order schedule number.
qty_received	FLOAT(15)	Required – defaults to 0	Quantity of the item on the receipt. The value must be greater than zero.
qty_damaged	FLOAT(15)	Optional – defaults to 0	For all forms of receiving, this value represents only the quantity received as damaged. The system generates a hold notification in an inventory adjustment transaction for this quantity. This quantity does not reflect the quantity of inventory put on hold after receipt. For example, shipment-based receiving sends receipt and hold notifications for all held inventory after reconciliation. Quantity Damaged accounts only for the inventory received as damaged, but not inventory put on hold after receipt but before reconciliation.
hu_id	NVARCHAR(22)	Optional	If inventory is being tracked with a license plate, the license plate identifier is provided.

Column Name	Type	Required? – Default Value	Description
master_hu_id	NVARCHAR(22)	Optional	If the inventory is being tracked with Master license plate, the master license plate identifier is provided.
pack_slip	NVARCHAR(20)	Not used	
fork_id	NVARCHAR(30)	Not used	
tran_status	CHAR(1)	Optional	Transaction status. Valid values are: F – On users forklift H – Advantage Link Host record generated. (This value is only valid if Advantage Link is installed.) P – PeopleSoft transaction sent T – Transaction log entry generated
receipt_uom	NVARCHAR(10)	Optional	Item's base unit of measure.
shipment_number	NVARCHAR(30)	Optional	Shipment number for shipment-based receiving.
wh_id	NVARCHAR(10)	Required	Warehouse Identifier
stored_attribute_id	INT(10)	Optional	If DIA is used and configured for the item, the collection identifier for the set of attribute values received
hold_reason_id	NVARCHAR(10)	Optional	Hold reason for item received.

t_receipt_sn

Contains serial numbers for given receipt based on receipt_id_sn.

Application Reference: RCP_SN

Key/Index Name	Column Name	Clustered	Unique
pk_receipt_sn_id	receipt_sn_id	Y	Y
fk_receipt_identity	t_receipt (receipt_identity)		

Column Name	Type	Required? – Default Value	Description
receipt_sn_id	INT IDENTITY	Required	Unique identifier for the row.
serial_number	NVARCHAR(50)	Required	Serial number of an item.
receipt_identity	INTEGER	Required	Unique receipt identifier.

t_region

The Region table is used during order import. Region data will be loaded on table creation.

Application Reference: REG

Key/Index Name	Column Name	Clustered	Unique
pk_region	region_id	Y	Y
ui_region_name	region_name	N	Y
ui_region	region_abbr country_id	N	Y

Column Name	Type	Required? – Default Value	Description
region_id	INT IDENTITY	Required	Unique identifier.
region_name	NVARCHAR(50)	Required	Region (state/province) name.
country_id	INT(10)	Required	Foreign Key to country.
region_abbr	NVARCHAR(10)	Required	Region abbreviation.

t_report_authorization

Stores the reporting solution user name and password. This table contains a single record.

Key/Index Name	Column Name	Clustered	Unique
pk_report_auth	report_authorization_id	N	Y

Column Name	Type	Required? – Default Value	Description
report_authorization_id	INT IDENTITY	Required	Unique identifier.
report_user	NVARCHAR(50)	Required	User name for the reporting solution. Needs to match the id of the user in Körber One Workspace that wishes to print reports. For Körber One Report, this is a GUID.
report_password	NVARCHAR(50)	Optional	Password for the configured user.

t_returns

Stores information on returned items.

Application Reference: RET

Key/Index Name	Column Name	Clustered	Unique
i_returns	rma_number order_number wh_id item_number lot_number line_number	N	Y

Column Name	Type	Required? – Default Value	Description
rma_number	NVARCHAR(40)	Required	Receipt identifier.
order_number	NVARCHAR(30)	Required	Vendor identifier.
efa_order_number	NVARCHAR(40)	Not used	
store_order_number	NVARCHAR(40)	Not used	
wh_id	NVARCHAR(10)	Required	Warehouse identifier.
item_number	NVARCHAR(30)	Required	Item number.
lot_number	NVARCHAR(15)	Optional	Lot number.
line_number	NVARCHAR(5)	Optional	Line number.
quantity_returned	FLOAT(15)	Required	Quantity returned.
return_comment	NVARCHAR(100)	Optional	Comment for returned order.
disposition	NVARCHAR(30)	Optional	Disposition of item.
fork_id	NVARCHAR(10)	Optional	User fork identifier.
return_uom	NVARCHAR(10)	Optional	Unit of measure of the returned quantity.

t_reusable

Used to maintain reusable container information.

Key/Index Name	Column Name	Clustered	Unique
pk_reusable	container_number	Y	Y
i_customer	customer		

Column Name	Type	Required? – Default Value	Description
container_number	NVARCHAR(20)	Required	Container number. Unique identifier for the Container to be tracked.
container_type	NVARCHAR(1)	Optional	Container type. Valid values are: O – Other P – Pallet T – Tote
customer	NVARCHAR(30)	Optional	Customer identifier the container shipped to.
status	NVARCHAR(3)	Required	Valid values are: IN – In Warehouse. OUT – Out of Warehouse
update_date	DATETIME(23)	Optional	Last date the row of data was updated.

t_rma_detail

Holds detail information for RMAs, detailing items, quantities, and line numbers.

Key/Index Name	Column Name	Clustered	Unique
i_rma_detail_po_wh_id	rma_number wh_id	N	Y

Column Name	Type	Required? – Default Value	Description
rma_detail_id	INTEGER IDENTITY	Required	Identity column.
rma_number	NVARCHAR(20)	Required	The RMA Number.
wh_id	NVARCHAR(10)	Required	The Warehouse ID

Column Name	Type	Required? – Default Value	Description
order_line_number	NVARCHAR(5)	Optional	If the RMA is associated with an order number, this is the line number that the specific item is associated with.
po_line_number	NVARCHAR(5)	Required	The line number of the Purchase Order that this RMA line item is associated with.
item_number	NVARCHAR(30)	Required	The Item Number
rma_qty	FLOAT	Required	The quantity expected on this RMA.
create_date	datetime	Required – Default GETDATE()	The create date of the RMA detail record.

t_rma_master

Holds information for RMAs, and associates RMAs with a specific order number.

Key/Index Name	Column Name	Clustered	Unique
i_rma_master_po_wh_id	rma_number wh_id	N	Y

Column Name	Type	Required? – Default Value	Description
rma_id	INTEGER IDENTITY	Required	Identity column.
rma_number	NVARCHAR(20)	Required	The RMA Number.
wh_id	NVARCHAR(10)	Required	The Warehouse ID
order_number	NVARCHAR(30)	Optional	The order number, if any, that the RMA is to be associated with.
po_number	NVARCHAR(30)	Required	The Purchase Order that the RMA is associated with.
customer_name	NVARCHAR(30)	Optional	The customer name
tracking_number	NVARCHAR(30)	Optional	A tracking number for this RMA.
type_id	NVARCHAR(10)	Optional	An identifier for how the RMA was created – AUTO if created through AdvLink, or MANUAL if created through web pages.
create_date	DATETIME	Required	The create date of the RMA.

t_schema_history

Stores information on database schema changes.

Column Name	Type	Required? – Default Value	Description
EventDate	DATETIME	Required Default CURRENT_TIMESTAMP	Datetime that the database schema was modified.
EventType	NVARCHAR(100)	Optional	Type of modification to the database schema – Create, Drop, Alter
ObjectType	NVARCHAR(MAX)	Optional	Type of object that was modified – Table, Procedure, Trigger, View
EventDDL	NVARCHAR(MAX)	Optional	Command string that was used to modify the schema.
DatabaseName	NVARCHAR(255)	Optional	Name of the Database.
SchemaName	NVARCHAR(255)	Optional	Name of the Schema.
ObjectName	NVARCHAR(255)	Optional	Name of the object that was modified.
HostName	NVARCHAR(255)	Optional	Name of the host system that performed the modification.
IPAddress	NVARCHAR(32)	Optional	IP Address of the host that performed the modification.
ProgramName	NVARCHAR(255)	Optional	Name of the program used to perform the modification.
LoginName	NVARCHAR(255)	Optional	Database login of the user who performed the modification.

t_serial_number

Holds information for serial numbers associated with a quantum of inventory.

Application Reference: SNM

Key/Index Name	Column Name	Clustered	Unique
pk_serial_number	serial_number_id	Y	Y
i_serial_number_stoid	sto_id	N	N
i_serial_number_sn	serial_number	N	N
fk_sto_id	t_stored_item (sto_id)	N	N

Column Name	Type	Required? – Default Value	Description
-------------	------	---------------------------	-------------

Column Name	Type	Required? – Default Value	Description
serial_number_id	BIGINT IDENTITY	Required	Unique identifier.
sto_id	BIGINT	Required	Unique stored item identifier.
serial_number	NVARCHAR(50)	Required	Serial number of an item.

t_serial_number_scanned

This table temporarily holds the scanned serial number which get deleted after it is written to tran log.

Application Reference: SNS

Key/Index Name	Column Name	Clustered	Unique
pk_sn_scanned	sn_scanned_id	Y	Y

Column Name	Type	Required? – Default Value	Description
sn_scanned_id	INT IDENTITY	Required	Unique identifier.
serial_number	NVARCHAR(50)	Required	Serial number of an item.
item_number	NVARCHAR(30)	Required	Item identifier.
wh_id	NVARCHAR(10)	Required	Warehouse identifier.
employee_id	NVARCHAR(10)	Required	Employee identifier.
lot_number	NVARCHAR(15)	Optional	If an item is configured for Full lot control, the lot number of the inventory quantum.
stored_attribute_id	BIGINT	Optional	If an item is configured for Dynamic Item Attributes, the Stored Attribute Collection identifier of the inventory quantum.
source_location	NVARCHAR(50)	Optional	Location identifier for source
source_hu_id	NVARCHAR(22)	Optional	License plate identifier for source.
dest_location	NVARCHAR(50)	Optional	Location identifier for destination
dest_hu_id	NVARCHAR(22)	Optional	License plate identifier for destination.
action_type	NVARCHAR(10)	Optional	Valid values are: Add Remove Move Hold Release

t_ship_via

This table contains the data used for Advantage Link for Flagship.

Column Name	Type	Required? – Default Value	Description
ship_via_id	INT IDENTITY	Required	Unique identifier.
ship_via	NVARCHAR(30)	Required	Ship Via. Used by Advantage Link for Flagship and Warehouse Advantage Adapter For K.Motion Ship. This value is the shop group set up in K.Motion Ship.
description	NVARCHAR(100)	Optional	Description.
flagship_ship_via_code	NVARCHAR(25)	Optional	Flagship ship via code.

t_shipment_track

This table contains the data sent by Kewill Clippership (only).

Application Reference: SPT

Key/Index Name	Column Name	Clustered	Unique
i_shipment_track	order_number tracking_number	N	N

Column Name	Type	Required? – Default Value	Description
order_number	NVARCHAR(30)	Required	Warehouse order number.
tracking_number	NVARCHAR(30)	Optional	Tracking number.
shipping_status	CHAR(1)	Optional	Status.
routing_code	NVARCHAR(30)	Optional	Carrier identifier/routing code for the shipment.
carrier_name	NVARCHAR(30)	Optional	Carrier name.
total_charges	FLOAT(15)	Optional	Total charges for order number.
hu_id	NVARCHAR(22)	Optional	License plate identifier.
ship_date	DATETIME(23)	Optional	Ship date.
handling_fee	FLOAT(15)	Optional	Handling fee.
insurance	FLOAT(15)	Optional	Insurance.
surcharge	FLOAT(15)	Optional	Surcharge.
other_cost	FLOAT(15)	Optional	Other cost.
alt_carrier_1_code	NVARCHAR(10)	Optional	Alternate carrier code.

Column Name	Type	Required? – Default Value	Description
alt_carrier_1_freight_cost	FLOAT(15)	Optional	Alternate carrier freight cost.
alt_carrier_2_code	NVARCHAR(10)	Optional	Alternate carrier code.
alt_carrier_2_freight_cost	FLOAT(15)	Optional	Alternate carrier freight cost.
alt_carrier_3_code	NVARCHAR(10)	Optional	Alternate carrier code.
alt_carrier_3_freight_cost	FLOAT(15)	Optional	Alternate carrier freight cost.
alt_carrier_4_code	NVARCHAR(10)	Optional	Alternate carrier code.
alt_carrier_4_freight_cost	FLOAT(15)	Optional	Alternate carrier freight cost.
weight	FLOAT(15)	Optional	Weight.
cubic_volume	FLOAT(15)	Optional	Cubic volume.
length	FLOAT(15)	Optional	Length.
width	FLOAT(15)	Optional	Width.
height	FLOAT(15)	Optional	Height.
delivery_status	NVARCHAR(50)	Optional	Delivery status.
delivery_date	DATETIME(23)	Optional	Date delivered.
delivery_time	DATETIME(23)	Optional	Time delivered.
delivery_signedby	NVARCHAR(50)	Optional	Signed by on delivery.
delivery_location	NVARCHAR(50)	Optional	Location delivered.
delivery_description	NVARCHAR(255)	Optional	Delivery description.

t_skipped_task

Holds information for tasks skipped by a user during picking. Data only resides here while the user is performing any of the picking and replenishment processes.

Key/Index Name	Column Name	Clustered	Unique
i_user_id_wh_id	user_id wh_id	N	N

Column Name	Type	Required? – Default Value	Description
task_id	INT(10)	Required	Task record identifier.
task_number	NVARCHAR(22)	Optional	Task number.
task_type	NVARCHAR(20)	Required	Task type.
user_id	NVARCHAR(10)	Required	User identifier.
date_stamp	DATETIME(23)	Optional	Date stamp.

Column Name	Type	Required? – Default Value	Description
wh_id	NVARCHAR(10)	Required	Warehouse identifier.

t_sto_attrb_collection_detail

This table is used to store the actual attribute detail values that are represented in the stored item inventory. A stored attribute collection, defines the attributes associated to a stored quantum of inventory and the actual values of said attributes. The stored attribute collection is used to define the primary key of the stored item inventory records.

Application Reference: SCD

Key/Index Name	Column Name	Clustered	Unique
pk_sto_attrb_collection_detail	stored_attribute_id attribute_id	Y	Y
i_stored_attribute_value	attribute_value		
fk_stored_attribute_detail	t_sto_attrb_collection_master.stored_attribute_id		

Column Name	Type	Required? – Default Value	Description
stored_attribute_id	BIGINT	Required	Stored Attribute Collection identifier.
attribute_id	INT(10)	Required	Attribute ID for the stored attribute collection or quantum. Foreign key identifier to t_attribute_type.attribute_id.
attribute_value	NVARCHAR(250)	Required	Actual stored attribute value.

t_sto_attrib_collection_master

This table is used to store the master stored attribute identifier record for the stored attribute collection. A stored attribute collection, defines the attributes associated to a stored quantum of inventory and the actual values of said attributes. The stored attribute collection is used to define the primary key of the stored item inventory records.

Application Reference: SCM

Key/Index Name	Column Name	Clustered	Unique
pk_stored_attribute_collection	stored_attribute_id	Y	Y
i_scm_collection_checksum	attribute_collection_id detail_checksum	N	N
fk_stored_attri_attri_col	t_attribute_collection (attribute_collection_id)		

Column Name	Type	Required? – Default Value	Description
stored_attribute_id	BIGINT IDENTITY	Required	Unique identifier for the record.
attribute_collection_id	INT(10)	Required	Attribute Collection identifier for the stored attribute collection or quantum. Foreign key identifier to t_attribute_collection_master.attribute_collection_id
detail_checksum	INT(10)	Required	Checksum/Hash value of the attribute values in this Stored Attribute Collection.
create_date	DATETIME	Optional	Date/time stored attribute collection was created.

t_stop

The Stop table is used to record stop information for loads.

Application Reference: STP

Key/Index Name	Column Name	Clustered	Unique
pk_stop	stop_id	Y	Y

Column Name	Type	Required? – Default Value	Description
stop_id	INT IDENTITY(10)	Required	Stop record identifier.
load_id	NVARCHAR(30)	Required	Load identifier.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
stop_sequence	INT(10)	Optional	Stop sequence.

Column Name	Type	Required? – Default Value	Description
earliest_delivery_date	DATETIME(23)	Optional	Earliest delivery date.
latest_delivery_date	DATETIME(23)	Optional	Latest delivery date.
actual_delivery_date	DATETIME(23)	Optional	Actual delivery date.
ship_to_name	NVARCHAR(100))	Optional	Ship to name.
ship_to_addr1	NVARCHAR(100))	Optional	Ship to address line 1.
ship_to_addr2	NVARCHAR(100))	Optional	Ship to address line 2.
ship_to_addr3	NVARCHAR(100))	Optional	Ship to address line 3.
ship_to_city	NVARCHAR(100))	Optional	Ship to city.
ship_to_state	NVARCHAR(3)	Optional	Ship to state/region.
ship_to_zip	NVARCHAR(12)	Optional	Ship to postal code.
ship_to_country_code	NVARCHAR(5)	Optional	Ship to country code.
ship_to_country_name	NVARCHAR(50)	Optional	Ship to country name.
ship_to_phone	NVARCHAR(50)	Optional	Ship to phone.
delivery_name	NVARCHAR(100))	Optional	Delivery name.
delivery_addr1	NVARCHAR(100))	Optional	Delivery address line 1.
delivery_addr2	NVARCHAR(100))	Optional	Delivery address line 2.
delivery_addr3	NVARCHAR(100))	Optional	Delivery address line 3.
delivery_city	NVARCHAR(100))	Optional	Delivery city.
delivery_state	NVARCHAR(3)	Optional	Delivery state/region.
delivery_zip	NVARCHAR(12)	Optional	Delivery postal code.
delivery_country_code	NVARCHAR(5)	Optional	Delivery country code.
delivery_country_name	NVARCHAR(50)	Optional	Delivery country name.
delivery_phone	NVARCHAR(50)	Optional	Delivery phone.
special_instructions	NVARCHAR(500))	Optional	Special instructions.
trigger_action	INTEGER(10)	Optional— defaults to 0	Trigger action.

Column Name	Type	Required? – Default Value	Description
tracking_request_pending	INTEGER(10)	Optional – defaults to 0	Tracking request pending.
tracking_request_date	DATETIME(23)	Optional	Tracking request date
tracking_response_date	DATETIME(23)	Optional	Tracking response date.
tracking_updated_by	NVARCHAR(100)	Optional	Tracking updated by.
received_by	NVARCHAR(100)	Optional	Received by.
pod_request_pending	INTEGER(10)	Optional – defaults to 0	Point of delivery request pending.
pod_request_date	DATETIME(23)	Optional	Point of delivery request date.
pod_response_date	DATETIME(23)	Optional	Point of delivery response date.
pod_updated_by	NVARCHAR(100)	Optional	Point of delivery updated by.
pod_attachment_mime_type	NVARCHAR(50)	Optional	Point of delivery attachment mime type.
pod_attachment_filename	NVARCHAR(250)	Optional	Point of delivery filename.
pod_attachment	IMAGE(2147483647)	Optional	Point of delivery attachment.

t_storage_device

This table stores the information for storage device.

This table may be used by Billing Management.

Key/Index Name	Column Name	Clustered	Unique
pk_storage_device	storage_device_id	Y	Y
ui_storage_device	storage_device_name	N	N

Column Name	Type	Required? – Default Value	Description
storage_device_id	INT IDENTITY(10)	Required	Storage device identifier.
storage_device_name	NVARCHAR(30)	Required	Storage device name.
cost_per_sq_ft	NUMERIC(18,2)	Optional	Cost per square feet.
margin_per_sq_ft	NUMERIC(18,2)	Optional	Margin per square feet.

Column Name	Type	Required? – Default Value	Description
description	NVARCHAR(200)	Optional	Description.

t_stored_item

The stored item table is the inventory tracking table. There is a quantum associated with the t_stored_item table consisting of: wh_id, location_id, hu_id, item_number, lot_number, and stored_attribute_id. These are values that distinguish inventory that a worker would be able to “see”.

Application Reference: STO

Key/Index Name	Column Name	Clustered	Unique
i_stored_hu_id	hu_id wh_id	N	Y
i_stored_item	location_id item_number type wh_id lot_number stored_attribute_id hu_id shipment_number expiration_date	Y	Y
i_stored_item_item_number	item_number	N	N
i_stored_item_type	type	N	N
i_stored_item_wh_id	wh_id	N	N
i_stored_item_stored_attribute	stored_attribute_id	N	N
i_t_stored_item_key_1	status wh_id item_number type location_id lot_number stored_attribute_id hu_id actual_qty unavailable_qty	N	N

Key/Index Name	Column Name	Clustered	Unique
i_t_stored_item_key_2	type wh_id item_number location_id lot_number stored_attribute_id hu_id status actual_qty unavailable_qty	N	N
i_stored_item_sto_id	sto_id	N	Y
fk_stored_hu_id	t_hu_master (hu_id, wh_id)		
fk_stored_item_number	t_item_master (item_number, wh_id)		
fk_stored_item_whid	t_whse (wh_id)		
fk_stored_item_location	t_location (location_id, wh_id)		
fk_stored_item_attribute_id	t_sto_attr_collection_master (stored_attribute_id)		

Trigger Name	Description	Type
tr_stored_item_update	Prevents changes to the primary key.	Update Trigger

Column Name	Type	Required? – Default Value	Description
sto_id	BIGINT IDENTITY	Required	Unique identifier.
sequence	INT	Not used	
item_number	NVARCHAR(30)	Required	Item identifier.
actual_qty	FLOAT	Required – defaults to 0	Actual quantity of the inventory quantum. Quantity is in the item's base unit of measure, which has a conversion factor of 1.
unavailable_qty	FLOAT	Optional – defaults to 0	Unavailable quantity of the inventory quantum. Quantity is in the item's base unit of measure, which has a conversion factor of 1. Valid values are 0 or the same as actual_qty.

Column Name	Type	Required? – Default Value	Description
status	CHAR(1)	Required – defaults to A	Status of the inventory quantum. Valid values are: A – Available H – Hold U – Unavailable
wh_id	NVARCHAR(10)	Required	Warehouse identifier.
location_id	NVARCHAR(50)	Required	Location identifier.
fifo_date	DATETIME(23)	Required – defaults to current date	FIFO date of the inventory quantum. (Time portion of the field is set to 00:00:00 as it is not used.)
expiration_date	DATETIME(23)	Not used	
reserved_for	NVARCHAR(15)	Not used	
lot_number	NVARCHAR(15)	Optional	If an item is configured for Full lot control, the lot number of the inventory quantum.
inspection_code	CHAR(1)	Not used	
serial_number	NVARCHAR(30)	Not used	
type	BIGINT	Required	Shows the type of storage. Inventory of the type Pick ID can still be placed on hold. Valid values are: 0 – Storage -1 – Reconcile (for Receipt of Shipment) Pick ID – Pick Identifier for picked inventory.
put_away_location	NVARCHAR(50)	Optional	Planned put away location identifier. Used by Labor Advantage to determine goal time. It is populated by the stored procedure usp_before_put.
stored_attribute_id	BIGINT	Optional	If an item is configured for Dynamic Item Attributes, the Stored Attribute Collection identifier of the inventory quantum.
hu_id	NVARCHAR(22)	Optional	License plate identifier.
shipment_number	NVARCHAR(30)	Optional	Shipment number.
sort_type	NVARCHAR(30)	Optional	Criteria for ordering what is being received

t_tote_master

This table contains the record of Totes to be used on carts in Warehouse Advantage.

Key/Index Name	Column Name	Clustered	Unique
pk_tote_id	wh_id, tote_id	YES	YES

Column Name	Type	Required? – Default Value	Description
wh_id	NVARCHAR(10)	Required	Valid Warehouse Identifier.
tote_id	NVARCHAR(50)	Required	Tote Identifier.
container_type	NVARCHAR(20)	Required	Type of container that will fit inside of the tote.
last_used	DATETIME	Optional	Last known time that this tote id was used.

t_system

This table contains the systems installed for Supply Chain Advantage.

Application Reference: SYS

Key/Index Name	Column Name	Clustered	Unique
pk_system	system_id	YES	YES

Column Name	Type	Required? – Default Value	Description
system_id	NVARCHAR(30)	Required	SCA system identifier. Valid values with check constraint are: WA YA
system_name	NVARCHAR(50)	Required	The name of the system.
go_live	DATETIME(23)	Optional	Date the system went live.
address1	NVARCHAR(100)	Optional	Address line 1.
address2	NVARCHAR(100)	Optional	Address line 2.
address3	NVARCHAR(100)	Optional	Address line 3.
city	NVARCHAR(100)	Optional	City.
state	NVARCHAR(50)	Optional	State/region.
zip	NVARCHAR(12)	Optional	Postal code.
country	NVARCHAR(50)	Optional	Country.
phone	NVARCHAR(100)	Optional	Phone number.
fax	NVARCHAR(50)	Optional	Fax number.
email	NVARCHAR(100)	Optional	Email address.

t_track_control

This reporting table stores the tracking control information for INBOUND, OUTBOUND, ISSUED, and KITTING transaction groups. See the main table [t_track_summary](#) definition for more information on the Track and Trace tables.

Application Reference: TKC

Key/Index Name	Column Name	Clustered	Unique
pk_trk_control_id	trk_control_id	Y	Y
i_trk_control_detail_id	t_trk_control_detail_id	N	N
i_trk_item_id	t_trk_item_id	N	N

Key/Index Name	Column Name	Clustered	Unique
fk_trk_control_detail_id	t_track_control_detail (trk_control_detail_id)		N
fk_trk_control_item_id	t_track_item (trk_item_id)		N

Column Name	Type	Required? – Default Value	Description
trk_control_id	INT IDENTITY	Required	Unique identifier.
control_number	NVARCHAR(100)	Required	Control number for the transaction. For inbound transactions, this is the PO Number. For outbound transactions, this is the Order Number. For issued transactions, this is the transfer out control number, if applicable. For kitting transactions, this is the Kit Identifier.
display_control_number	NVARCHAR(100)	Optional	Display control number. The number displayed on RF and on web pages depending on conditional visibility settings. May be different from the value in PO Number or Order Number.
trk_control_detail_id	INT	Optional	Identifier for the associated Tracking Control Detail information.
trk_item_id	INT	Optional	Identifier for the associated Tracking Item information. Only applicable for kitting transactions, where this is the corresponding item information for the kit identifier.

t_track_control_detail

This reporting table stores the tracking control detail information for INBOUND, OUTBOUND, and ISSUED transaction groups. See the main table [t_track_summary](#) definition for more information on the Track and Trace tables.

Application Reference: TKCD

Key/Index Name	Column Name	Clustered	Unique
pk_trk_control_detail_id	trk_control_detail_id	Y	Y

Column Name	Type	Required? – Default Value	Description
trk_control_detail_id	INT IDENTITY	Required	Unique identifier.
ship_code	NVARCHAR(50)	Optional	Shipping code. For inbound transactions, this is the vendor_code. For outbound and issued transactions, this is the ship_to_code.

Column Name	Type	Required? – Default Value	Description
ship_name	NVARCHAR(50)	Optional	Shipping name. For inbound transactions, this is the ship_from_name. For outbound and issued transactions, this is the ship_to_name.
ship_addr1	NVARCHAR(30)	Optional	Shipping address line 1. For inbound transactions, this is the ship_from_addr1. For outbound and issued transactions, this is the ship_to_addr1.
ship_addr2	NVARCHAR(30)	Optional	Shipping address line 2. For inbound transactions, this is the ship_from_addr2. For outbound and issued transactions, this is the ship_to_addr2.
ship_city	NVARCHAR(30)	Optional	Shipping city. For inbound transactions, this is the ship_from_addr1. For outbound and issued transactions, this is the ship_to_addr1.
ship_state	NVARCHAR(3)	Optional	Shipping state/region. . For inbound transactions, this is the ship_from_state. For outbound and issued transactions, this is the ship_to_state.
ship_zip	NVARCHAR(12)	Optional	Shipping postal code. For inbound transactions, this is the ship_from_zip. For outbound and issued transactions, this is the ship_to_zip.
ship_country_code	NVARCHAR(5)	Optional	Shipping country code. For inbound transactions, this is the ship_from_country_code. For outbound and issued transactions, this is the ship_to_country_code.
ship_phone	NVARCHAR(30)	Optional	Shipping phone number. For inbound transactions, this is the ship_from_phone. For outbound and issued transactions, this is the ship_to_phone.

t_track_item

This reporting table stores the tracking item information for INBOUND, NONORDER, OUTBOUND, ISSUED, and KITTING transaction groups. See the main table [t_track_summary](#) definition for more information on the Track and Trace tables.

Application Reference: TKI

Key/Index Name	Column Name	Clustered	Unique
pk_trk_item_id	trk_item_id	Y	Y
ui_track_item	item_number display_item_number lot_number reason_id stored_attribute_id	N	Y

Column Name	Type	Required? – Default Value	Description
trk_item_id	INT IDENTITY	Required	Unique identifier.
item_number	NVARCHAR(50)	Required	Item number.
display_item_number	NVARCHAR(50)	Required	Item number displayed on RF and on web pages depending on conditional visibility settings. May be different from the value in item_number.
lot_number	NVARCHAR(50)	Optional	Lot number of the item.
stored_attribute_id	BIG INT	Optional	Stored Attribute Collection identifier.
reason_id	NVARCHAR(10)	Optional	Hold reason of the item. Only applicable for outbound order transactions.

t_track_summary

The Track and Trace tracking tables consist of five tables all starting with the name t_track_: t_track_control, t_track_control_detail, t_track_item, t_track_summary, and t_track_tran_group. These tables are populated by transactional data from the Warehouse Advantage background process PTL (Process Transaction Log). These tables only store data for the Track and Trace transactions. Track and Trace transactions are consolidated into reporting views built on these daily transaction summary tables. For more information, see the *Warehouse Advantage Technical Reference Guide*.

This reporting table is the main table that stores the tracking transaction summary information for INBOUND, NONORDER, OUTBOUND, ISSUED, and KITTING transaction groups.

Application Reference: TKS

Key/Index Name	Column Name	Clustered	Unique
pk_trk_summary_id	trk_summary_id	Y	Y
i_trk_tran_type	tran_type	N	N
ui_track_summary	wh_id client_code summary_date tran_type trk_item_id trk_control_id	N	Y
i_trk_control_id	trk_control_id	N	N
i_trk_item_id	trk_item_id	N	N
i_t_track_summary_key_1	tran_type wh_id client_code trk_item_id trk_control_id quantity	N	N
fk_trk_control_id	t_track_control (trk_control_id)	N	N
fk_trk_item_id	t_track_item (trk_item_id)	N	N

Column Name	Type	Required? – Default Value	Description
trk_summary_id	INT IDENTITY	Required	Unique identifier.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
client_code	NVARCHAR(30)	Required	For 3PLs this is the client code and matches one of the defined clients (see t_client). Otherwise, this is the warehouse identifier.

Column Name	Type	Required? – Default Value	Description
quantity	FLOAT	Required	Tracking quantity. This is the sum quantity for all transactions for the day for the transaction quantum consisting of warehouse, client, transaction type, item identifier, and control identifier.
summary_date	DATETIME	Required	Day for the summary tracking transactions.
tran_type	NVARCHAR(3)	Required	Transaction type.
trk_item_id	INT	Required	Identifier for the associated Tracking Item information.
trk_control_id	INT	Optional	Identifier for the associated Tracking Control information. Not applicable for NONORDER transaction group.

t_track_tran_group

This reporting table stores tracking transaction group information. See the main table [t_track_summary](#) definition for more information on the Track and Trace tables.

Application Reference: TKTG

Key/Index Name	Column Name	Clustered	Unique
pk_track_tran_group	trk_tran_group_id	Y	Y
ui_track_tran_group	group_name	N	Y

Column Name	Type	Required? – Default Value	Description
trk_tran_group_id	INT IDENTITY	Required	Unique identifier
group_name	NVARCHAR(30)	Required	Group name for the associated transactions. Valid values are: INBOUND ISSUED KITTING NONORDER OUTBOUND

t_track_tran_log_holding

Temporary holding table for Track and Trace transactions logged by the Warehouse Advantage application.

Application Reference: TRLH

Key/Index Name	Column Name	Clustered	Unique
pk_track_tran_log_holding_id	tran_log_holding_id	Y	Y
i_trk_group_name	group_name	N	N

Column Name	Type	Required? – Default Value	Description
tran_log_holding_id	INTEGER	Required	Tran Log Holding ID
tran_type	NVARCHAR(3)	Required	Identifies the type of transaction.
summary_date	DATETIME	Required	Day for the Tracking transaction.
wh_id	NVARCHAR(10)	Required	“FROM” warehouse identifier.
client_code	NVARCHAR(30)	Optional	For 3PLs this is the client code and matches one of the defined clients (see t_client). Otherwise, this is the warehouse identifier.
quantity	FLOAT	Required	Tracking quantity.
item_number	NVARCHAR(30)	Required	Item number involved in transaction.
display_item_number	NVARCHAR(30)	Optional	Item number displayed on RF and on web pages depending on conditional visibility settings. May be different from the value in item_number.
lot_number	NVARCHAR(15)	Optional	Lot Number
stored_attribute_id	BIGINT	Optional	Stored Attribute Collection identifier.
control_number	NVARCHAR(30)	Optional	Control number.
kit_lot_number	NVARCHAR(30)	Optional	Kit Lot Number.
kit_stored_attribute_id	BIGINT	Optional	Kit’s Stored Attribute Collection identifier.
display_control_number	NVARCHAR(100)	Optional	Display control_number.
reason_id	NVARCHAR(10)	Optional	Hold reason of the item. Only applicable for outbound order transactions.
group_name	NVARCHAR(30)	Required	Transaction group name.
trk_item_id	INT	Optional	Track Item ID.
trk_control_detail_id	INT	Optional	Track Control Detail ID.
trk_control_id	INT	Optional	Track Control ID.
trk_contorl_item_id	INT	Optional	Track Control Item ID. Stores the item id of kit from the t_track_item table.

Column Name	Type	Required? – Default Value	Description
trk_summary_id	INT	Optional	Track Summary ID.
ship_code	NVARCHAR(50)	Optional	Shipping code.
ship_name	NVARCHAR(50)	Optional	Shipping name.
ship_addr1	NVARCHAR(30)	Optional	Shipping address line 1.
ship_addr2	NVARCHAR(30)	Optional	Shipping address line 2.
ship_city	NVARCHAR(30)	Optional	Shipping city.
ship_state	NVARCHAR(3)	Optional	Shipping state/region.
ship_zip	NVARCHAR(12)	Optional	Shipping postal code.
ship_country_code	NVARCHAR(5)	Optional	Shipping country code.
ship_phone	NVARCHAR(30)	Optional	Shipping phone number.
outbound_order_number	NVARCHAR(30)	Optional	Order identifier.
inbound_order_number	NVARCHAR(30)	Optional	Inbound order identifier.
kit_id	NVARCHAR(30)	Optional	Bill of Materials (BOM) identifier.

t_tran_log

Stores a record of all transactions logged by the Warehouse Advantage application. This is the table used for storing transactions.

Application Reference: TRL

Key/Index Name	Column Name	Clustered	Unique
pk_tran_log_id	tran_log_id	YES	YES
i_tran_log	start_tran_date tran_type	NO	NO
i_tran_log_location_employee	location_id employee_id tran_type start_tran_date end_tran_date	NO	NO

Column Name	Type	Required? – Default Value	Description
tran_log_id	INT IDENTITY(10)	Required	Unique identifier.
tran_type	NVARCHAR(3)	Required	Identifies the type of transaction.
description	NVARCHAR(50)	Optional	Describes type of transaction.

Column Name	Type	Required? – Default Value	Description
start_tran_date	DATETIME(23)	Required – defaults to 1/1/1900	Start date of transaction.
start_tran_time	DATETIME(23)	Required – defaults to 1/1/1900	Start time of transaction.
end_tran_date	DATETIME(23)	Optional – defaults to 1/1/1900	End date of transaction.
end_tran_time	DATETIME(23)	Optional – defaults to 1/1/1900	End time of transaction.
employee_id	NVARCHAR(10)	Required	Employee identifier.
line_number	NVARCHAR(5)	Optional	Line number corresponding to the order, receipt, etc.
outside_id	NVARCHAR(10)	Optional	An outside entity identifier.
wh_id	NVARCHAR(10)	Required	“FROM” warehouse identifier.
num_items	INT(10)	Optional	Number of items involved in the transaction.
item_number	NVARCHAR(30)	Optional	Item number involved in transaction.
lot_number	NVARCHAR(15)	Optional	Lot Number
uom	NVARCHAR(10)	Optional	Unit of measure.
tran_qty	FLOAT(15)	Required	Transaction quantity.
verify_status	CHAR(1)	Optional	Verify status flag.
employee_id_2	NVARCHAR(10)	Optional	Second employee identifier.
routing_code	NVARCHAR(30)	Optional	Identifier carrier/shipper.
return_disposition	NVARCHAR(30)	Optional	Item’s disposition when returned.
elapsed_time	INT(10)	Optional	Time elapsed (in seconds) since process was entered and transaction generated.
source_storage_type	NVARCHAR(30)	Optional	Source Storage Type.
destination_storage_type	NVARCHAR(30)	Optional	Destination Storage Type.
generic_text1	NVARCHAR(250)	Optional	Generic Text 1 Value
generic_text2	NVARCHAR(250)	Optional	Generic Text 2 Value
generic_text3	NVARCHAR(250)	Optional	Generic Text 3 Value
generic_text4	NVARCHAR(250)	Optional	Generic Text 4 Value
generic_text5	NVARCHAR(250)	Optional	Generic Text 5 Value
generic_float1	FLOAT	Optional	Generic Float 1 Value
generic_float2	FLOAT	Optional	Generic Float 2 Value

Column Name	Type	Required? – Default Value	Description
display_item_number	NVARCHAR(30)	Optional	Item number used in the display_item_number column.
client_code	NVARCHAR(30)	Optional	For 3PLs this is the client code and matches one of the defined clients (see t_client). Otherwise, this is the warehouse identifier.
trk_summary_id	INT	Optional	Track Summary ID.
tran_log_holding_id	INT	Required	Tran Log Holding ID.
work_q_id	NVARCHAR(30)	Optional	Valid work queue identifier.
outbound_order_number	NVARCHAR(30)	Optional	Order identifier.
inbound_order_number	NVARCHAR(30)	Optional	Inbound order identifier.
receipt_id	NVARCHAR(30)	Optional	Receipt identifier.
pick_id	INTEGER	Optional	Valid pick_id.
source_hu_id	NVARCHAR(22)	Optional	“FROM” handling unit identifier.
destination_hu_id	NVARCHAR(22)	Optional	“TO” handling unit identifier.
source_location_id	NVARCHAR(50)	Optional	“FROM” location identifier.
destination_location_id	NVARCHAR(50)	Optional	“TO” location identifier.
tran_group_id	NVARCHAR(30)	Optional	Transaction group identifier.
wave_id	NVARCHAR(20)	Optional	Wave identifier.
load_id	NVARCHAR(30)	Optional	Load identifier.
expiration_date	DATETIME	Required – ‘01/01/1900’	Expiration Date.
destination_wh_id	NVARCHAR(10)	Optional	“TO” warehouse identifier.
shipment_id	NVARCHAR(25)	Optional	Shipment ID.
actual_carrier	NVARCHAR(100)	Optional	Carrier name.
asn_number	NVARCHAR(30)	Optional	ASN identifier.
reason_code	NVARCHAR(10)	Optional	Reason code.
service_level	NVARCHAR(100)	Optional	Service Level.
customer	NVARCHAR(30)	Optional	Customer identifier.
control_number	NVARCHAR(30)	Optional	Control number.
container_number	NVARCHAR(20)	Optional	Container number.
group_id	NVARCHAR(36)	Optional	Unique grouping or batch for records. Used for t_al_host_po_master.
kit_id	NVARCHAR(30)	Optional	Bill of Materials (BOM) identifier.
kit_lot_number	NVARCHAR(15)	Optional	Lot number of the BOM.
loc_status	NVARCHAR(1)	Optional	Location status.

Column Name	Type	Required? – Default Value	Description
loc_status2	NVARCHAR(1)	Optional	New location status.
tracking_number	NVARCHAR(30)	Optional	Tracking number.
release_holds	NVARCHAR(1)	Optional	Indicates if holds were released when the recall was rescinded. Valid values are: N – NO Y – YES
outbound_order_number2	NVARCHAR(30)	Optional	Order identifier.
misc_id	NVARCHAR(30)	Optional	Miscellaneous identifier.
source_parent_hu_id	NVARCHAR(22)	Optional	The source parent hu identifier.
destination_parent_hu_id	NVARCHAR(22)	Optional	The destination parent hu identifier.

t_tran_log_holding

Temporary holding table for transactions logged by the Warehouse Advantage application.

Application Reference: LOG

Key/Index Name	Column Name	Clustered	Unique
i_tran_log_holding	start_tran_date tran_type	NO	NO
i_tran_log_loc_emp_holding	location_id employee_id tran_type start_tran_date end_tran_date	NO	NO

Column Name	Type	Required? – Default Value	Description
tran_log_holding_id	INT IDENTITY	Required	Unique identifier.
tran_type	NVARCHAR(3)	Required	Identifies the type of transaction.
description	NVARCHAR(50)	Optional	Describes type of transaction.
start_tran_date	DATETIME	Required – defaults to 1/1/1900	Start date of transaction.
start_tran_time	DATETIME	Required – defaults to 1/1/1900	Start time of transaction.

Column Name	Type	Required? – Default Value	Description
end_tran_date	DATETIME	Optional – defaults to 1/1/1900	End date of transaction.
end_tran_time	DATETIME	Optional – defaults to 1/1/1900	End time of transaction.
employee_id	NVARCHAR(10)	Required	Employee identifier.
line_number	NVARCHAR(5)	Optional	Line number corresponding to the order, receipt, etc.
outside_id	NVARCHAR(10)	Optional	An outside entity identifier.
wh_id	NVARCHAR(10)	Required	“FROM” warehouse identifier.
num_items	INT(10)	Optional	Number of items involved in the transaction.
item_number	NVARCHAR(30)	Optional	Item number involved in the transaction.
lot_number	NVARCHAR(15)	Optional	Lot Number
uom	NVARCHAR(10)	Optional	Unit of measure.
tran_qty	FLOAT(15)	Required	Transaction quantity.
verify_status	CHAR(1)	Optional	Verify status flag.
employee_id_2	NVARCHAR(10)	Optional	Second employee identifier.
routing_code	NVARCHAR(30)	Optional	Identifier carrier/shipper.
return_disposition	NVARCHAR(30)	Optional	Item’s disposition when returned.
elapsed_time	INT(10)	Optional	Time elapsed (in seconds) since process was entered and transaction generated.
src_storage_device_id	INT(10)	Optional	Source Storage Type.
det_storage_device_id	INT(10)	Optional	Destination Storage Type.
generic_text1	NVARCHAR(250)	Optional	Generic Text 1 Value
generic_text2	NVARCHAR(250)	Optional	Generic Text 2 Value
generic_text3	NVARCHAR(250)	Optional	Generic Text 3 Value
generic_text4	NVARCHAR(250)	Optional	Generic Text 4 Value
generic_text5	NVARCHAR(250)	Optional	Generic Text 5 Value
generic_float1	FLOAT	Optional	Generic Float 1 Value
generic_float2	FLOAT	Optional	Generic Float 2 Value
work_q_id	NVARCHAR(30)	Optional	Valid work queue identifier.
outbound_order_number	NVARCHAR(30)	Optional	Order identifier.
inbound_order_number	NVARCHAR(30)	Optional	Inbound order identifier.
receipt_id	NVARCHAR(30)	Optional	Receipt identifier.

Column Name	Type	Required? – Default Value	Description
pick_id	INTEGER	Optional	Valid pick_id.
source_hu_id	NVARCHAR(22)	Optional	“FROM” handling unit identifier.
destination_hu_id	NVARCHAR(22)	Optional	“TO” handling unit identifier.
source_location_id	NVARCHAR(50)	Optional	“FROM” location identifier.
destination_location_id	NVARCHAR(50)	Optional	“TO” location identifier.
tran_group_id	NVARCHAR(30)	Optional	Transaction group identifier.
wave_id	NVARCHAR(20)	Optional	Wave identifier.
load_id	NVARCHAR(30)	Optional	Load identifier.
expiration_date	DATETIME	Required – ‘01/01/1900’	Expiration Date.
destination_wh_id	NVARCHAR(10)	Optional	“TO” warehouse identifier.
actual_carrier	NVARCHAR(100)	Optional	Carrier name.
service_level	NVARCHAR(100)	Optional	Service Level. Used by the TMS Integration Module and Advantage Link for Flagship.
asn_number	NVARCHAR(30)	Optional	ASN identifier.
reason_code	NVARCHAR(10)	Optional	Reason code.
customer	NVARCHAR(30)	Optional	Customer identifier.
container_number	NVARCHAR(20)	Optional	Container number.
control_number	NVARCHAR(30)	Optional	Control number.
shipment_id	NVARCHAR(25)	Optional	Shipment identifier.
group_id	NVARCHAR(36)	Optional	Unique grouping or batch for records. Used for t_al_host_po_master.
kit_id	NVARCHAR(30)	Optional	Bill of Materials (BOM) identifier.
kit_lot_number	NVARCHAR(15)	Optional	Lot number of the BOM.
loc_status	NVARCHAR(1)	Optional	Location status.
loc_status2	NVARCHAR(1)	Optional	New location status.
tracking_number	NVARCHAR(30)	Optional	Tracking number.
release_holds	NVARCHAR(1)	Optional	Indicates if holds were released when the recall was rescinded. Valid values are: N – NO Y – YES
outbound_order_number2	NVARCHAR(30)	Optional	Order identifier.
misc_id	NVARCHAR(30)	Optional	Miscellaneous identifier.
source_parent_hu_id	NVARCHAR(22)	Optional	The source parent hu identifier.
destination_parent_hu_id	NVARCHAR(22)	Optional	The destination parent hu identifier.

t_tran_log_holding_reason

Temporary holding table to hold the reason codes.

Key/Index Name	Column Name	Clustered	Unique
pk_tran_log_holding_reason_id	tran_log_holding_reason_id	Y	Y
i_tran_log_holding_id	reason_id	N	N

Column Name	Type	Required? – Default Value	Description
tran_log_holding_reason_id	INT IDENTITY	Required	Unique identifier.
reason_id	NVARCHAR(10)	Required	Identifies the reason.
tran_log_holding_id	INT	Required	Identifies Transaction Log.

t_tran_log_holding_sn

Temporary holding table to hold the serial number.

Key/Index Name	Column Name	Clustered	Unique
pk_tran_log_holding_sn	tran_log_holding_sn_id	Y	Y

Column Name	Type	Required? – Default Value	Description
tran_log_holding_sn_id	BIGINT IDENTITY	Required	Unique identifier.
serial_number	NVARCHAR(50)	Required	Identifies the serial number.
tran_log_holding_id	INT	Required	Identifies Transaction Log.
action_type	NVARCHAR(10)	Optional	Valid values are: Add Remove Move Hold Release

t_tran_log_reason

Table to hold the reason codes.

Key/Index Name	Column Name	Clustered	Unique
pk_tran_log_reason_id	tran_log_reason_id	Y	Y
fk_tran_log_id	t_tran_log (tran_log_id)	N	N

Column Name	Type	Required? – Default Value	Description
tran_log_reason_id	INT IDENTITY	Required	Unique identifier.
reason_id	NVARCHAR(10)	Required	Identifies reason code.
tran_log_id	INT	Required	Refers to t_tran_log identifier.

t_tran_log_sn

Table to hold the serial number related to tran log.

Key/Index Name	Column Name	Clustered	Unique
pk_tran_log_sn	tran_log_sn_id	Y	Y
i_tran_log_sn_sn	serial_number	N	N
i_tran_log_sn_id	tran_log_id	N	N
fk_tran_log_id_sn	t_tran_log (tran_log_id)	N	N

Column Name	Type	Required? – Default Value	Description
tran_log_sn_id	BIGINT IDENTITY	Required	Unique identifier.
serial_number	NVARCHAR(50)	Required	Identifies serial number.
tran_log_id	INT	Required	Refers to t_tran_log identifier.
action_type	NVARCHAR(10)	Optional	Serial number action. Valid values are: Add Remove Move Hold Release

t_transaction

This table contains the transactions used by a SCA application.

Application Reference: TRN

Key/Index Name	Column Name	Clustered	Unique
pk_transaction	system_id tran_type	YES	YES
i_trk_tran_grp_id	trk_tran_group_id	NO	NO
fk_transaction_system	t_system (system_id)	NO	NO
fk_trk_tran_group_id	t_track_tran_group (trk_tran_group_id)	NO	NO

Column Name	Type	Required? – Default Value	Description
system_id	NVARCHAR(30)	Required	SCA system identifier.
tran_type	NVARCHAR(3)	Required	Identifies the type of transaction.
description	NVARCHAR(50)	Required	Describes type of transaction.
send_to_adv_link	NVARCHAR(3)	Required	Indicates if this transaction is sent to Advantage Link (Generic Host Interface). Valid values with check constraint are: NO YES
inventory_action	NVARCHAR(10)	Optional	Inventory action. Valid values are: DECREMENT INCREMENT MOVE NONE SIGNED This field is used by Billing Management.
trk_tran_group_id	INT	Optional	Define the group the tran_type is related to in table t_track_tran_group.
tran_process_type	NVARCHAR(2)	Optional	Indicates if the transaction is related to an Inbound process or Outbound process. Valid values are I - Inbound O - Outbound OE – Indicates entry point for outbound. All picking processes will fall under this category.

t_unknown_receipt

Stores records for an item on the receiving dock that it is not known where it belongs or to whom it belongs.

Application Reference: UNR

Key/Index Name	Column Name	Clustered	Unique
pk_t_unknown_receipt	unknown_receipt_id	YES	YES
ui_unknown_receipt	po_number carrier_code vendor_code item_number	NO	YES

Column Name	Type	Required? – Default Value	Description
unknown_receipt_id	INT IDENTITY(10)	Required	Unique identifier.
po_number	NVARCHAR(30)	Required	Inbound order identifier.
carrier_code	NVARCHAR(30)	Required	Carrier code.
vendor_code	NVARCHAR(10)	Required	Vendor identifier.
customer_id	NVARCHAR(10)	Optional	Customer identifier.
job_id	NVARCHAR(10)	Optional	Job identifier.
item_number	NVARCHAR(30)	Required	Item identifier.
location_id	NVARCHAR(50)	Required	Location items will be placed.
wh_id	NVARCHAR(10)	Required	Warehouse identifier.
client_code	NVARCHAR(30)	Optional	For 3PLs this is the client code and matches one of the defined clients (see t_client).
quantity	FLOAT(15)	Required	Quantity of item received. Value must be greater than zero.
description	NVARCHAR(50)	Optional	Description of item.
comment_text	NVARCHAR(250)	Optional	Comments.
status	CHAR(1)	Required	Status. Valid values are: C – Closed H – On Hold O – Open R – Resolved
receipt_employee_id	NVARCHAR(10)	Required	Warehouse worker identifier for the receipt.
receipt_date	DATETIME(23)	Required	Date of the receipt.

Column Name	Type	Required? – Default Value	Description
receipt_time	DATETIME(23)	Required	Time of the receipt.
resolution_date	DATETIME(23)	Optional	Date the receipt was resolved.
resolution_time	DATETIME(23)	Optional	Time of resolution.
resolution_comment	NVARCHAR(250)	Optional	Comments.
resolution_employee_id	NVARCHAR(255)	Optional	Warehouse worker who resolved the unknown receipt.

t_unknown_receipt_image

Stores image records for unknown receipts.

Application Reference: UNI

Key/Index Name	Column Name	Clustered	Unique
pk_t_unknown_receipt_image	unknown_receipt_id sequence	Y	Y

Column Name	Type	Required? – Default Value	Description
unknown_receipt_id	INT(10)	Required	Unique identifier for the unknown receipt record.
sequence	INT(10)	Required	Unique identifier for the image.
picture_mime_type	NVARCHAR(30)	Optional	Holds the image type.
picture_filename	NVARCHAR(250)	Optional	Filename given to the image.
picture	VARBINARY(MAX)	Optional	The actual image.

t_uom_orientation

This table stores different orientations for an item Unit of Measure. There can be up to six orientations.

This table is only used by K.Motion Container Advantage, and only if the Use Orientation Data parameter is set for a Unit of Measure (see table t_item_uom).

Application Reference: ITO

Key/Index Name	Column Name	Clustered	Unique
pk_uom_orientation	item_number wh_id uom orientation_number	Y	Y
i_uom_orientation_item_number_	item_number wh_id uom, pattern	N	N
fk_uom_orientation1	t_item_uom (item_number, wh_id, uom)		

Column Name	Type	Required? – Default Value	Description
item_number	NVARCHAR(30)	Required	Valid item number. The item_number combined with the wh_id and uom matches one of the defined UOMs (see table t_item_uom).
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier. The item_number combined with the wh_id and uom matches one of the defined UOMs (see table t_item_uom).
uom	NVARCHAR(10)	Required	Valid unit of measure. The item_number combined with the wh_id and uom matches one of the defined UOMs (see table t_item_uom).
orientation_number	INT	Required – defaults to 1	Orientation number (1 – 6). This field is required by Container Advantage. If this field is used the value must be 1, 2, 3, 4, 5 or 6.

Column Name	Type	Required? – Default Value	Description
length	FLOAT(15)	Required – defaults to 1	Unit length in this orientation. This field is required by Container Advantage. If this field is used the value must be greater than zero.
width	FLOAT(15)	Required – defaults to 1	Unit width in this orientation. This field is required by Container Advantage. If this field is used the value must be greater than zero..
height	FLOAT(15)	Required – defaults to 1	Unit height in this orientation. This field is required by Container Advantage. If this field is used the value must be greater than zero.
bottom_only	INT	Required – defaults to 0	Indicates that a unit in this orientation is required to be loaded on the bottom of a container. This field is required by Container Advantage. Valid values are: 0 – False 1 – True Used by Container Advantage Express for items that must be upright for cartonization.
top_only	INT	Required – defaults to 0	Indicates whether a unit in this orientation is required to be placed on the top of a stack in a container. This field is required by Container Advantage. Valid values are: 0 – False 1 – True
max_in_layer	INT	Required – defaults to 1	The maximum number in a layer if the unit in this orientation is bottom only or top only. This field is required by Container Advantage. If this field is used the value must be greater than zero.
max_support_weight	FLOAT(15)	Required – defaults to 1	The maximum weight that can be placed on top of the unit in this orientation. This field is required by Container Advantage. If this field is used the value must be greater than zero.

Column Name	Type	Required? – Default Value	Description
stack_index	INT	Optional – defaults to 0	The stack index of the unit in this orientation. This field is optionally used by Container Advantage to determine stacking order for a container. If this field is used the value must be greater than or equal to zero.
pattern	NVARCHAR(20)	Required – defaults to STANDARD	The break pattern of the unit in this orientation. This field is required by Container Advantage.

t_user_entered_attributes

This table temporarily holds DIA values entered by a user.

Index/Key Name	Column Name	Clustered	Unique
pk_user_entered_attributes	identifier	Y	Y
	attribute_id		
fk_user_entered_attribute_attribute_id	t_attribute_type (attribute_id)	N	Y

Column Name	Type	Required? – Default Value	Description
identifier	NVARCHAR(36)	Required	Unique identifier for the record.
attribute_id	INT	Required	Foreign key to t_attribute_type.
attribute_value	NVARCHAR(250)	Required	Value entered for the attribute.

t_vas_audit_log

Column Name	Type	Required? – Default Value	Description
vas_audit_log_id	INT IDENTITY	Required	Unique identifier for the record.
datetime_added	DATETIME	Optional	Date record created.
hu_id	NVARCHAR(22)	Required	License plate identifier.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
item_number	NVARCHAR(30)	Required	Item number involved.
lot_number	NVARCHAR(30)	Optional	This is only filled for VAS Damage.
qty_completed	FLOAT(15)	Optional	This is only filled for Command tasks and VAS Damage.
qty_remaining	FLOAT(15)	Optional	This is only logged for Command tasks and VAS Damage.
emp_id	NVARCHAR(10)	Optional	Employee identifier.

Column Name	Type	Required? – Default Value	Description
vas_task_id	INT	Optional	VAS task identifier.
vas_task_code	NVARCHAR(10)	Optional	VAS task code.
vas_operation_type	CHAR(1)	Optional	VAS operation type.
vas_task_description	NVARCHAR(20)	Optional	VAS task description.
damaged_flag	NVARCHAR(3)	Optional	Damaged flag.
dest_hu_id	NVARCHAR(22)	Optional	Destination license plate identifier.
reason_code	NVARCHAR(10)	Optional	Reason code.
source_vas_location	NVARCHAR(50)	Optional	Source VAS location
dest_vas_location	NVARCHAR(50)	Optional	Destination VAS location.
po_number	NVARCHAR(30)	Optional	Inbound order identifier.
line_number	NVARCHAR(5)	Optional	Corresponding line number for the order.
receipt_id	NVARCHAR(10)	Optional	Receipt identifier.
shipment_number	NVARCHAR(30)	Optional	Shipment number, for shipment-based receiving.
vas_task_response_id	INT	Optional	VAS task response identifier.
response_description	NVARCHAR(18)	Optional	Response description.

t_vas_location_type

Index/Key Name	Column Name	Clustered	Unique
pk_vas_location_type_id	vas_location_type_id	Y	Y

Column Name	Type	Required? – Default Value	Description
vas_location_type_id	INT IDENTITY	Required	Unique identifier for the record.
vas_location_type	NVARCHAR(50)	Required	VAS location type.
vas_location_type_desc	NVARCHAR(200)	Optional	VAS location type description.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.

t_vas_location_type_loca

Index/Key Name	Column Name	Clustered	Unique
pk_vas_location_type_loca	location_id wh_id vas_location_type_id	Y	Y
i_vas_location_type_loca_vas_l	vas_location_type_id	N	N

fk_vas_location_type_id	t_vas_location_type (vas_location_type_id)		
-------------------------	---	--	--

Column Name	Type	Required? – Default Value	Description
location_id	NVARCHAR(50)	Required	Location identifier.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
vas_location_type_id	INT(10)	Required	VAS location type identifier.

t_vas_profile

Index/Key Name	Column Name	Clustered	Unique
pk_vas_profile	vas_profile_id	Y	Y
uk_vas_profile_code	wh_id vas_profile_code	N	Y

Column Name	Type	Required? – Default Value	Description
vas_profile_id	INT IDENTITY	Required	Unique identifier.
vas_profile_code	NVARCHAR(10)	Required	VAS profile code.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
description	NVARCHAR(50)	Optional	Description of the VAS profile.

t_vas_profile_applies

Index/Key Name	Column Name	Clustered	Unique
pk_vas_applies_id	vas_applies_id	Y	Y
i_vas_profile_applies_vendor_c	vendor_code	N	N
i_vas_profile_applies_vas_prof	vas_profile_id	N	N
i_vas_profile_applies_carrier	carrier_id	N	N
fk_vas_profile_app	t_vas_profile (vas_profile_id)		
fk_vas_applies_vendor	t_vendor (vendor_code)		
fk_vas_applies_carrier	t_carrier (carrier_id)		

Column Name	Type	Required? – Default Value	Description
vas_applies_id	INT IDENTITY	Required	Unique identifier for the record.
vas_profile_id	INT	Required	VAS profile identifier.
item_number	NVARCHAR(30)	Optional	Item number the profile applies to.
uom	NVARCHAR(10)	Optional	Unit of measure the profile applies to.
inv_class	NVARCHAR(10)	Optional	Inventory class the profile applies to.
inv_cat	NVARCHAR(10)	Optional	Inventory category the profile applies to.
inventory_type	NVARCHAR(2)	Optional	Inventory type the profile applies to.
inbound_order_type	INT	Optional	Inbound order type the profile applies to.
tran_type	NVARCHAR(3)	Optional	Transaction type the profile applies to.
vendor_code	NVARCHAR(10)	Optional	Vendor code the profile applies to.
carrier_id	INT	Optional	Carrier identifier the profile applies to.
gen_attribute_value1	NVARCHAR(250)	Optional	DIA Attribute 1 Value the profile applies to.
gen_attribute_value2	NVARCHAR(250)	Optional	DIA Attribute 2 Value the profile applies to.
gen_attribute_value3	NVARCHAR(250)	Optional	DIA Attribute 3 Value the profile applies to.
gen_attribute_value4	NVARCHAR(250)	Optional	DIA Attribute 4 Value the profile applies to.
gen_attribute_value5	NVARCHAR(250)	Optional	DIA Attribute 5 Value the profile applies to.
gen_attribute_value6	NVARCHAR(250)	Optional	DIA Attribute 6 Value the profile applies to.
gen_attribute_value7	NVARCHAR(250)	Optional	DIA Attribute 7 Value the profile applies to.
gen_attribute_value8	NVARCHAR(250)	Optional	DIA Attribute 8 Value the profile applies to.
gen_attribute_value9	NVARCHAR(250)	Optional	DIA Attribute 9 Value the profile applies to.
gen_attribute_value10	NVARCHAR(250)	Optional	DIA Attribute 10 Value the profile applies to.
gen_attribute_value11	NVARCHAR(250)	Optional	DIA Attribute 11 Value the profile applies to.

Column Name	Type	Required? – Default Value	Description
display_item_number	NVARCHAR(30)	Optional	Item number displayed on RF and on web pages depending on conditional visibility settings. May be different from the value in item_number.
client_code	NVARCHAR(30)	Optional	For 3PLs this is the client code and matches one of the defined clients (see t_client).
process_held_inv_flag	CHAR(1)	Optional – defaults to N	VAS task applies to held inventory. Valid values: N – No Y – Yes

t_vas_profile_group

Index/Key Name	Column Name	Clustered	Unique
pk_vas_profile_group	vas_profile_id group_code	Y	Y
fk_vas_grp_profile_id	t_vas_profile (vas_profile_id)		

Column Name	Type	Required? – Default Value	Description
vas_profile_id	INT	Required	VAS profile identifier.
group_code	NVARCHAR(10)	Required	VAS group code.
precedence	INT	Optional – defaults to 1	Precedence.

t_vas_profile_step

Index/Key Name	Column Name	Clustered	Unique
pk_vas_profile_step	vas_profile_id vas_task_id sequence	Y	Y
i_vas_profile_step_vas_task_id	vas_task_id	N	N
fk_vas_step_profile_id	t_vas_profile (vas_profile_id)		
fk_vas_profile_stp_task_id	t_vas_tasks (vas_task_id)		

Column Name	Type	Required? – Default Value	Description
-------------	------	---------------------------------	-------------

Column Name	Type	Required? – Default Value	Description
vas_profile_id	INT	Required	VAS profile identifier.
vas_task_id	INT	Required	VAS task identifier.
sequence	NVARCHAR(20)	Required	Sequence number of the task.

t_vas_task_describe

Index/Key Name	Column Name	Clustered	Unique
pk_vas_task_describe_id	vas_task_id locale_id	Y	Y
fk_vas_tsk_desc_taskid	t_vas_tasks (vas_task_id)		

Column Name	Type	Required? – Default Value	Description
vas_task_id	INT	Required	VAS task identifier.
locale_id	NVARCHAR(10)	Required	Locale identifier.
locale_description	NVARCHAR(20)	Optional	Locale description.
short_describe	NVARCHAR(60)	Optional	Short description of the VAS task. Either a short or a long description is required.
long_describe	NVARCHAR(250)	Optional	Long description of the VAS task. Either a short or a long description is required.

t_vas_task_group

Index/Key Name	Column Name	Clustered	Unique
pk_vas_task_group	vas_task_id group_code	Y	Y
fk_vas_task_grp_id	t_vas_tasks.vas_task_id		

Column Name	Type	Required? – Default Value	Description
vas_task_id	INT	Required	VAS task identifier.
group_code	NVARCHAR(10)	Required	VAS group code.
precedence	INT	Optional – defaults to 1	Precedence.

t_vas_task_image

Index/Key Name	Column Name	Clustered	Unique
pk_vas_task_image_id	vas_task_id sequence	Y	Y
fk_vas_task_img_tsk_id	t_vas_tasks (vas_task_id)		

Column Name	Type	Required? – Default Value	Description
vas_task_id	INT	Required	VAS task identifier.
sequence	INT	Required	Sequence of the image for the task.
picture_mime_type	NVARCHAR(30)	Optional	Mime type of the image.
picture_filename	NVARCHAR(250)	Optional	Filename of the image.
picture	VARBINARY(MAX)	Optional	Image.

t_vas_task_pending

Index/Key Name	Column Name	Clustered	Unique
pk_vas_task_pending_id	vas_task_pending_id	Y	Y
i_vas_task_pending_vas_task_id	vas_task_id	N	N
fk_vas_tsk_pend_task_id	t_vas_tasks (vas_task_id)		

Column Name	Type	Required? – Default Value	Description
vas_task_pending_id	INT IDENTITY	Required	Unique identifier.
work_q_id	NVARCHAR(30)	Required	Work queue identifier.
hu_id	NVARCHAR(22)	Required	License plate identifier.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
item_number	NVARCHAR(30)	Required	Item identifier.
sequence	NVARCHAR(20)	Optional	Sequence of the pending task.
qty_completed	FLOAT(15)	Optional	Quantity completed for the task.
po_number	NVARCHAR(30)	Optional	Inbound order identifier.
receipt_id	NVARCHAR(30)	Optional	Receipt identifier.
shipment_number	NVARCHAR(30)	Optional	Shipment number for shipment-based receiving.
vas_task_id	INT	Optional	VAS task identifier.

t_vas_task_response

Index/Key Name	Column Name	Clustered	Unique
uk_vas_task_response	vas_task_id	N	Y
	locale_id		
	sequence		
fk_vas_tsk_resp_task_id	t_vas_tasks (vas_task_id)		

Column Name	Type	Required? – Default Value	Description
vas_response_id	INT IDENTITY	Required	Unique identifier.
vas_task_id	INT	Required	VAS task identifier.
locale_id	NVARCHAR(10)	Required	Locale identifier.
sequence	INT	Required	Sequence of the task.
response_description	NVARCHAR(18)	Optional	Description of the response.
vas_profile_id	NVARCHAR(10)	Optional	VAS profile identifier.
prompt_for_held_qty	NVARCHAR(3)	Optional – defaults to NO	Prompt for held quantity. Valid values are: NO YES
hold_reason_code	NVARCHAR(10)	Optional	Hold reason code.

t_vas_tasks

Index/Key Name	Column Name	Clustered	Unique
pk_vas_task_id	vas_task_id	Y	Y
i_vas_tasks_vas_location_type_	vas_location_type_id	N	N
fk_vas_tsk_loc_type_id	t_vas_location_type (vas_location_type_id)		

Column Name	Type	Required? – Default Value	Description
vas_task_id	INT IDENTITY	Required	Unique identifier for the VAS task.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
vas_task_code	NVARCHAR(10)	Required	VAS task code.
vas_operation_type	CHAR(1)	Required	Identifier for the VAS task operation type. Valid values are: C – Command D – Disposition I – Interrogative
vas_location_type_id	INT(10)	Required	VAS location type.
display_comments_flag	NVARCHAR(3)	Optional – defaults to NO	Display comments for the task.
vas_task_description	NVARCHAR(20)	Optional	Description of the task.
vas_task_tran_type	NVARCHAR(3)	Optional	Set to 600 by the application.
workers_required	INT(10)	Optional	Number of workers needed for the task.

t_vendor

Stores basic information about vendors.

Application Reference: VND

Index/Key Name	Column Name	Clustered	Unique
pk_vendor	vendor_id	Y	Y

Column Name	Type	Required? – Default Value	Description
vendor_id	INT IDENTITY	Required	Unique identifier for the record.
vendor_code	NVARCHAR(10)	Required	Unique vendor code.
vendor_name	NVARCHAR(50)	Required	Vendor name.
account_phone_number	NVARCHAR(30)	Optional	WA Adapter for Schedule field- account phone number.
contact_name	NVARCHAR(100)	Optional	WA Adapter for Schedule field - contact name for vendor.
contact_phone_number	NVARCHAR(30)	Optional	WA Adapter for Schedule field - contact phone number for vendor.
address_line_1	NVARCHAR(30)	Optional	WA Adapter for Schedule field - address.
address_line_2	NVARCHAR(30)	Optional	WA Adapter for Schedule field - address.
city	NVARCHAR(30)	Optional	WA Adapter for Schedule field – vendor city.
state	NVARCHAR(3)	Optional	WA Adapter for Schedule field – vendor state.
zip_code	NVARCHAR(12)	Optional	WA Adapter for Schedule field – vendor zip code.
country	NVARCHAR(5)	Optional	WA Adapter for Schedule field – vendor country.
inspection_flag	NVARCHAR(3)	Not used	
ownership_control	NVARCHAR(3)	Not used	
audit_percent	INT	Optional – defaults to 0	Audit percent.
vqm_profile	NVARCHAR(30)	Not used	

t_vendor_compliance

Stores basic information about vendor compliance.

Application Reference: VNC

Index/Key Name	Column Name	Clustered	Unique
pk_vendor_compliance	vendor_compliance_id wh_id	Y	Y

Column Name	Type	Required? – Default Value	Description
vendor_compliance_id	INT	Required	Vendor compliance id.
vendor_id	NVARCHAR(10)	Required	Unique identifier for the vendor.
customer_id	NVARCHAR(30)	Required	Unique identifier for customer.
job_id	NVARCHAR(200)	Optional	Job Number.
routing_code	NVARCHAR(30)	Optional	Routing Code.
bol_number	NVARCHAR(10)	Optional	Bill of lading number.
wh_id	NVARCHAR(10)	Required	Warehouse Identifier.
comment	NVARCHAR(250)	Optional	Comments.
status	NVARCHAR(10)	Optional	Status.
receipt_date	DATETIME(23)	Optional	Date of receipt.
receipt_time	DATETIME(23)	Optional	Time of receipt.

t_vendor_compliance_image

Stores images that relate to vendor compliance.

Application Reference: VCI

Index/Key Name	Column Name	Clustered	Unique
pk_vendor_compliance_image	vendor_compliance_image_id wh_id sequence	Y	Y
fk_vendor_compliance_id_wh_id	t_vendor_compliance (vendor_compliance_id, wh_id)	N	N

Column Name	Type	Required? – Default Value	Description
vendor_compliance_image_id	INT	Required	Vendor compliance image id

Column Name	Type	Required? – Default Value	Description
vendor_compliance_id	INT	Required	Foreign key to t_vendor_compliance
wh_id	NVARCHAR(10)	Required	Warehouse identifier.
sequence	INT	Required	Sequence.
picture_mime_type	NVARCHAR(30)	Optional	Picture type.
picture_filename	NVARCHAR(250)	Optional	Path to file.
picture	VARBINARY(MAX)	Optional	Image file.

t_view_inventory

The view inventory table is used to store records for the view inventory process and allow the user to loop through them.

Index/Key Name	Column Name	Clustered	Unique
pk_view_id	view_id	N	Y
I_view_inv_id_user	view_id, user_id	N	N

Column Name	Type	Required? – Default Value	Description
view_id	INTEGER IDENTITY(1,1)	Required	Identity column for the table.
date_added	DATETIME	Required – GETDATE()	Date row was inserted into table
wh_id	NVARCHAR(10)	Required	Warehouse ID
user_id	NVARCHAR(10)	Required	User ID
item_number	NVARCHAR(30)	Required	Item Number.
actual_qty	FLOAT	Required – 0	Actual Quantity
unavailable_qty	FLOAT	Required – 0	Unavailable Quantity
status	NVARCHAR(1)	Required – 'A'	Status
location_id	NVARCHAR(50)	Required	Location ID
fifo_date	DATETIME	Required – GETDATE()	FIFO Date
expiration_date	DATETIME	Required – '01/01/1900'	Expiration Date
reserved_for	NVARCHAR(15)	Optional	Reserved For

Column Name	Type	Required? – Default Value	Description
lot_number	NVARCHAR(15)	Optional	Lot Number
inspection_code	NVARCHAR(1)	Optional	Inspection Code
type	BIGINT	Required	Type
put_away_location	NVARCHAR(50)	Optional	Put Away Location
stored_attribute_id	BIGINT	Optional	Stored Attribute ID
hu_id	NVARCHAR(22)	Optional	HU ID
parent_hu_id	NVARCHAR(22)	Optional	Parent HU ID from t_hu_master
shipment_number	NVARCHAR(30)	Optional	Shipment Number
description1	NVARCHAR(20)	Optional	Characters 1-20 from item master description
description2	NVARCHAR(20)	Optional	Characters 21-40 from item master description
order_number	NVARCHAR(30)	Optional	Order Number

t_view_inventory_control

The view inventory control table stores the columns to be displayed to the user in the View Inventory process.

Index/Key Name	Column Name	Clustered	Unique
pk_control_id	view_control_id	N	Y

Column Name	Type	Required? – Default Value	Description
view_control_id	INTEGER IDENTITY(1,1)	Required	Identity column
sequence	INTEGER	Required	Sequence of the control type
description	NVARCHAR(50)	Optional	Description for the control type
wh_id	NVARCHAR(10)	Required	Warehouse ID
Prompt_type	NVARCHAR(10)	Required	Value indicate what base parameter should be used to display the information Item, Location, LP, MLP, Order Number, Serial or Lot Number
active	INTEGER	Required	Status for the control. 0 = Inactive, 1 = Active
scr_abbr1	NVARCHAR(10)	Optional	Label displays for the value of line number 1
scr_line1	NVARCHAR(20)	Optional	Value 1 displays as per parameter selected
scr_abbr2	NVARCHAR(10)	Optional	Label displays for the value of line number 2
scr_line2	NVARCHAR(20)	Optional	Value 2 displays as per parameter selected
scr_abbr3	NVARCHAR(10)	Optional	Label displays for the value of line number 3

Column Name	Type	Required? – Default Value	Description
scr_line3	NVARCHAR(20)	Optional	Value 3 displays as per parameter selected
scr_abbr4	NVARCHAR(10)	Optional	Label displays for the value of line number 4
scr_line4	NVARCHAR(20)	Optional	Value 4 displays as per parameter selected
scr_abbr5	NVARCHAR(10)	Optional	Label displays for the value of line number 5
scr_line5	NVARCHAR(20)	Optional	Value 5 displays as per parameter selected
scr_abbr6	NVARCHAR(10)	Optional	Label displays for the value of line number 6
scr_line6	NVARCHAR(20)	Optional	Value 6 displays as per parameter selected

t_whse

The warehouse table is used to list all the Warehouse identifiers and their respective names.

Application Reference: WHS

Index/Key Name	Column Name	Clustered	Unique
pk_whse_id	wh_id	Y	Y

Column Name	Type	Required? – Default Value	Description
wh_id	NVARCHAR(10)	Required	Unique identifier for the warehouse.
code	NVARCHAR(15)	Optional	Warehouse code.
name	NVARCHAR(30)	Optional	Name given to each warehouse.
addr1	NVARCHAR(30)	Optional	Address line 1.
addr2	NVARCHAR(30)	Optional	Address line 2.
addr3	NVARCHAR(30)	Optional	Address line 3.
city	NVARCHAR(30)	Optional	City.
state	NVARCHAR(3)	Optional	State/region.
zip	NVARCHAR(12)	Optional	Postal code.
phone	NVARCHAR(30)	Optional	Phone number.
fax	NVARCHAR(30)	Optional	Fax number.
country_code	NVARCHAR(5)	Optional	Country code.
country_name	NVARCHAR(30)	Optional	Country name.
http_address	NVARCHAR(512)	Optional	HTTP address.

t_whse_control

Stores values for warehouse-specific control purposes (e.g., default staging locations) and various warehouse-specific application flag indicators (e.g., how Advanced Fulfillment Application is being used).

Application Reference: WHS

Index/Key Name	Column Name	Clustered	Unique
pk_wh_control	wh_id control_type	Y	Y
fk_twc_whid	t_whse (wh_id)		

Column Name	Type	Required? – Default Value	Description
wh_id	NVARCHAR(10)	Required	Unique identifier for the warehouse.
control_type	NVARCHAR(20)	Required	Control type.
description	NVARCHAR(30)	Optional	Description.
next_value	INT	Optional	The next numeric value to use, or an on/off flag. If used as a flag, valid values are: 0 – Off 1 – On
config_display	NVARCHAR(15)	Not used	
allow_edit	CHAR(1)	Not used	
c1	NVARCHAR(30)	Optional	May contain extra text information related to the control type.
c2	NVARCHAR(30)	Optional	May contain extra text information related to the control type.
f1	FLOAT	Optional	May contain extra numeric information related to the control type.

Base Control Values

These Warehouse Control values are maintained in Warehouse Advantage Base Web under Warehouse Setup > Warehouses > Warehouse Controls.

Control Type	Default Next Value	Default C1	Default F1	Description
ADJUST_LOST_LOC	0	03:00	0	Indicates whether auto adjust job is enabled. 0 – Off 1 – On C1 field indicates the time to launch the adjust job. F1 field indicates the max adjust quantity.
AFA_INSTALLED	1			Indicates how the system uses Advanced Fulfillment Application. 0 – Not used. 1 – Wave planning only. 2 – Wave planning is independent from load planning. 3 – Load planning only. 4 – First wave planning, then load planning. 5 – First load planning, then wave planning.
AGGREGATE_CONTROL	0	PREFIX		Determines how the system aggregates 3PL specific entities (e.g., Item Number/PO Number/Order Number) to create unique system level data. The AGGREGATE OPTION is stored in the c1 column while the SEPARATOR is stored in the c2 column. The AGGREGATE OPTION allowed values include PREFIX, SUFFIX and GENNUMBER. See the <i>Warehouse Advantage Technical Reference Guide</i> for more information.

Control Type	Default Next Value	Default C1	Default F1	Description
ASN_RCPT_BY_MLP	0			If enabled, will prompt user for a Master License Plate when receiving ASNs. 0 – Off 1 – On
BUILD_MLP_MIX_TYPE		None		Controls validation of LPs when adding them to an MLP in the Build MLP process. None – Minimum validation; only disallow picked inventory from mixing with storage inventory Load – When adding picked LPs, they must be on the same load. Order – When adding picked LPs, they must be on the same order.
CC_LOST_LOC_ITEM				C1 field indicates which location to place lost inventory based on Item HU Indicator. CC_LOST_LOC_ITEM
CC_LOST_LOC_LP				C1 field indicates which location to place lost inventory based on Item HU Indicator. CC_LOST_LOC_LP
CC_LOST_LOC_MLP				C1 field indicates which location to place lost inventory based on Item HU Indicator. CC_LOST_LOC_MLP
DEFAULT_CONTNR_TYPE		CARTON		Default container type used for batch container picks for the warehouse.
DEFAULT_LABEL_STAGE		S2		Default label staging location. C1 indicates the default staging location for label picks if no staging location is assigned to the order.
DEFAULT_PICK_AREA		EACH		Default pick area. C1 indicates the default pick area to be used when no other pick area can be found for a pick task.
DIR_RCPT_BY_MLP	0			Indicates whether to use Master License Plate in the Directed Receipt process. 0 – Off 1 – On

Control Type	Default Next Value	Default C1	Default F1	Description
HJSHIP_GROUP_BY		ORDER		<p>C1 field Indicates how shipments are grouped.</p> <ul style="list-style-type: none"> ORDER – group shipment by order CONTAINER – group shipment by container <p>This is used by Warehouse Advantage Adapter for K.Motion Ship.</p> <p>Note</p> <p>This control type is only used with pre-manifest transactions.</p>
HJSHIP_INSTALLED	1			<p>Indicates whether K.Motion Warehouse Advantage Adapter for K.Motion Ship is installed.</p> <ul style="list-style-type: none"> 0 – No 1 – Yes <p>This is used by Warehouse Advantage Adapter for K.Motion Ship.</p>
HJSHIP_MAN_PROMPT	1			<p>Indicates what to prompt for container in Post-manifest by Shipment. By default, the flag is set to 1.</p> <ul style="list-style-type: none"> If the flag is set to 0, then enter: <ul style="list-style-type: none"> Type of the container Weight of the container If the flag is set to 1, then enter: <ul style="list-style-type: none"> Type of the container Weight of the container Length of the container Width of the container Height of the container <p>This is used by Warehouse Advantage Adapter for K.Motion Ship.</p>
HJSHIP_PRINT_FAILED	0			<p>Indicates whether or not to print labels when shipments get failed responses.</p> <ul style="list-style-type: none"> 0 – No 1 – Yes <p>This is used by Warehouse Advantage Adapter for K.Motion Ship.</p>

Control Type	Default Next Value	Default C1	Default F1	Description
HJSHIP_PRINT_TYPE		ZPLII_203		<p>C1 field indicates the format in which K.Motion Ship should return labels.</p> <ul style="list-style-type: none"> • ZPLII_203 – ZPL format • PNG_IMAGE – PNG format <p>This is used by Warehouse Advantage Adapter for K.Motion Ship.</p>
HJSHIP_SYNC_FLAG	1			<p>Indicates whether transactions with K.Motion Ship should be synchronous or asynchronous.</p> <ul style="list-style-type: none"> • 0 — Asynchronous • 1 — Synchronous <p>This is used by Warehouse Advantage Adapter for K.Motion Ship.</p>
HJSHIP_SYNC_WAIT	15			<p>Indicates the amount of time (in seconds) to wait for a synchronous response from K.Motion Ship.</p> <p>This is used by Warehouse Advantage Adapter for K.Motion Ship.</p>
HJSHIP_UOM		POUNDS		<p>C1 field indicates the UOM to use for weight measurements in K.Motion Ship.</p> <p>This is used by Warehouse Advantage Adapter for K.Motion Ship.</p>
INV_SNAPSHOT	1			<p>Allow inventory snapshots. Flag determines whether users can request an inventory snapshot. Next Value:</p> <p>0 – Not allowed</p> <p>1 – Allowed</p> <p>Note</p> <p>Inventory snapshots consume a significant amount of processing power.</p>
ITEMHU		B		<p>Item/LP indicator. Determines how inventory is received onto a handler's vehicle.</p> <p>B – Both</p> <p>H – License-plate controlled</p> <p>I – Loose items</p>

Control Type	Default Next Value	Default C1	Default F1	Description
ITM_UNIT_CNT_ENABLED	0			Indicates whether system will allow user to count by item/lot/expiry or just by item. 0 – No 1 - Yes
LP_ITM_CNT_ENABLED	0			Indicates whether system will allow user to count individual items on an LP. 0 – No 1 - Yes
LP_UNIT_CNT_ENABLED	0			Indicates whether system will allow user to count all LP's in a location or one by one. 0 – No 1 - Yes
MAX_CONS_ORDERS			0	F1 field indicates the maximum number of orders that can be consolidated together. 0 indicates any number of orders.
MAX_CONS_VOLUME			0	F1 field indicates the maximum volume that can be consolidated. 0 indicates any volume.
MAX_CONS_WEIGHT			0	F1 field indicates the maximum weight that can be consolidated. 0 indicates any weight.
MFG_DEFAULT_STG_LOC		MFGINSTG		Manufacturing default staging location. C1 indicates the default staging location for production items.
MISC_RTRN_BY_MLP	0			Indicates whether to use Master License Plate in the Miscellaneous Return process. 0 – Off 1 – On
MULTIPLE_HOLDS	0			Indicates whether more than one hold can be placed on a quantum of inventory. Next Value: 0 – Off 1 – On

Control Type	Default Next Value	Default C1	Default F1	Description
ON_DEMAND_CC	0			Indicates whether a user can perform a cycle count without a current work request. 0 – No 1 - Yes
ORDER_CONS_CUTOFF		NONE		Indicates at which point system should not consider orders to be consolidated. Valid values: NONE RELEASED NOT RELEASED
PROMPT_START_LOC_CC	0			Indicates whether a user should be prompted for a starting location to count. 0 – No 1 - Yes
PROMPT_ZONE_CC	0			Indicates whether a user should be prompted for a location zone to count in. 0 – No 1 - Yes
RCP_IO_BY_MLP	0			Indicates whether to use Master License Plate in the Receipt of Inbound Order process. 0 – Off 1 – On
RCP_PROD_BY_MLP	0			Indicates whether to use Master License Plate in the Receipt from Production process. 0 – Off 1 – On
RCP_SHIP_BY_MLP	0			Indicates whether to use Master License Plate in the Receipt of Shipment process. 0 – Off 1 – On

Control Type	Default Next Value	Default C1	Default F1	Description
SENDER_EIN		xxxx		C1 field indicates the sender's employee identification number for international shipments. This is used by WA Adapter for K.Motion Ship.
SHIP_ALLOCATE_INV	0			Inventory received as storage type. Indicates whether Receipt of Shipment items are immediately available in inventory and automatically reconciled during the receiving process. Next Value: 0 – Off 1 – On
STG_RCPT_BY_MLP	0			Indicates whether to use Master License Plate in the Staged Receipt process. 0 – Off 1 – On
UNKNOWN_CONTNR_TYPE		UNKNOWN		This control is created by Container Advantage Express. C1 indicates the container type to use for items that exceed the maximum dimension of all container types.
WA_TRAN	0			Indicates whether Warehouse Advantage should run the WA_TRAN.DAT file so that records are written to the transaction file. Next Value: 0 – Off 1 – On
WHSE_XFER_IN_BY_MLP	9			Indicates whether to use Master License Plate in the Warehouse Transfer In process. 0 – Off 1 – On
WARNING_COLOR		YELLOW		Indicates color to be used in warning circumstances
CRITICAL_COLOR		RED		Indicates color to be used in critical circumstances
CC_LOST_LP	0	S1		Error Resolution Location

t_wl_cutoff_rules

The Cutoff Rules tables are used to store cutoff rules used in the Waveless process. Cutoff times are the time that after which it will be too late to continue processing an order (For example, UPS picks up at 3pm, and after that it is too late to get any further orders out that day).

Application Reference: WLCUT

Key/Index Name	Column Name	Clustered	Unique
pk_cutoff_rule	cutoff_rule_id	Y	Y
ui_cutoff_rule_name	rule_name	N	Y

Column Name	Type	Required? – Default Value	Description
cutoff_rule_id	INTEGER	Required	Unique identifier for the rule
rule_name	NVARCHAR(30)	Required	Name of the rule
description	NVARCHAR(100)	Optional	Rule Description
wh_id	NVARCHAR(10)	Required	Using % will enable the rule for all warehouses.
status	NVARCHAR(10)	Required – Default 'INACTIVE'	Status must be INACTIVE or ACTIVE. Rule status is managed by the background waveless procedure.
priority	NVARCHAR(10)	Required – Default 'Normal'	Priority will either be Normal or Override. Override is to be used for rules that take effect during a peak season, and should have priority over other similar rules.
rule_type	NVARCHAR(20)	Required	Carrier, Customer, or Route.
carrier_id	INTEGER	Optional	Carrier ID from t_carrier table. Used if the rule type is Carrier.
manifest_carrier_id	INTEGER	Optional	Service Level for the carrier, if one is defined in the t_manifest_carrier table.
customer_id	INTEGER	Optional	Customer ID from t_customer. Used if rule type is Customer.
route	NVARCHAR(30)	Optional	Route from t_order.route to check against.
effective_date	DATETIME	Required – Default GETDATE()	Date after which the rule is effective.
expiry_date	DATETIME	Required – Default '12/31/2050 23:59:59.999'	Date after which the rule will no longer be effective. Defaults to a far future date.
active_sun	NVARCHAR(3)	Required – Default 'Yes'	Whether or not to use the cutoff time on Sundays.

Column Name	Type	Required? – Default Value	Description
cutoff_time_sun	DATETIME	Optional – Default '23:59:59.999'	Cutoff time for Sundays.
active_mon	NVARCHAR(3)	Required – Default 'Yes'	Whether or not to use the cutoff time on Mondays.
cutoff_time_mon	DATETIME	Optional – Default '23:59:59.999'	Cutoff time for Mondays.
active_tue	NVARCHAR(3)	Required – Default 'Yes'	Whether or not to use the cutoff time on Tuesdays.
cutoff_time_tue	DATETIME	Optional – Default '23:59:59.999'	Cutoff time for Tuesdays.
active_wed	NVARCHAR(3)	Required – Default 'Yes'	Whether or not to use the cutoff time on Wednesdays.
cutoff_time_wed	DATETIME	Optional – Default '23:59:59.999'	Cutoff time for Wednesdays.
active_thu	NVARCHAR(3)	Required – Default 'Yes'	Whether or not to use the cutoff time on Thursdays.
cutoff_time_thu	DATETIME	Optional – Default '23:59:59.999'	Cutoff time for Thursdays.
active_fri	NVARCHAR(3)	Required – Default 'Yes'	Whether or not to use the cutoff time on Fridays.
cutoff_time_fri	DATETIME	Optional – Default '23:59:59.999'	Cutoff time for Fridays.
active_sat	NVARCHAR(3)	Required – Default 'Yes'	Whether or not to use the cutoff time on Saturdays.
cutoff_time_sat	DATETIME	Optional – Default '23:59:59.999'	Cutoff time for Saturdays.
last_modified	DATETIME	Required – Default GETDATE()	Tracks when a rule was last modified. The trigger tr_wl_cutoff_rules_update will update this to the current date whenever a row is updated.

t_wl_priority_rules

The Priority Rules table is used to store rules for priority increments for the Waveless process. For each type of rule, a delta_value is stored that will increment the priority of an order by that value whenever the rule is in effect.

Key/Index Name	Column Name	Clustered	Unique
pk_priority_rule	priority_rule_id	Y	Y
ui_priority_rule_name	rule_name	N	Y

Column Name	Type	Required? – Default Value	Description
priority_rule_id	INTEGER	Required	Unique identifier for the rule
rule_name	NVARCHAR(30)	Required	Name of the rule
description	NVARCHAR(100)	Optional	Rule Description
wh_id	NVARCHAR(10)	Required	Using % will enable the rule for all warehouses.
status	NVARCHAR(10)	Required – Default 'INACTIVE'	Status must be INACTIVE or ACTIVE. Rule status is managed by the background waveless procedure.
priority	NVARCHAR(10)	Required – Default 'Normal'	Priority will either be Normal or Override. Override is to be used for rules that take effect during a peak season, and should have priority over other similar rules.
rule_type	NVARCHAR(20)	Required	Carrier, Customer, Item, Time.
carrier_id	INTEGER	Optional	Carrier ID from t_carrier table. Used if the rule type is Carrier.
manifest_carrier_id	INTEGER	Optional	Service Level for the carrier, if one is defined in the t_manifest_carrier table.
customer_id	INTEGER	Optional	Customer ID from t_customer. Used if rule type is Customer.
item_number	NVARCHAR(30)	Optional	The Item Number in t_order_detail to check against. Used if rule type is Item.
time_remaining	DATETIME	Optional	The value between the processing time and cutoff time of the order to increment the priority.
delta_value	INTEGER	Required	The value to increment the priority for this rule type.
effective_date	DATETIME	Required – Default GETDATE()	Date after which the rule is effective.
expiry_date	DATETIME	Required – Default '12/31/2050 23:59:59.999'	Date after which the rule will no longer be effective. Defaults to a far future date.

Column Name	Type	Required? – Default Value	Description
last_modified	DATETIME	Required – Default GETDATE()	Tracks when a rule was last modified. The trigger tr_wl_priority_rules_update will update this to the current date whenever a row is updated.

t_wl_processing_rules

The processing time rules will store the amount of time that a particular order will take to process.

Application Reference: WLPROC

Key/Index Name	Column Name	Clustered	Unique
pk_processing_rule	processing_rule_id	Y	Y
ui_processing_rule_name	rule_name	N	Y

Column Name	Type	Required? – Default Value	Description
processing_rule_id	INTEGER	Required	Unique identifier for the rule
rule_name	NVARCHAR(30)	Required	Name of the rule
description	NVARCHAR(100)	Optional	Rule Description
wh_id	NVARCHAR(10)	Required	Using % will enable the rule for all warehouses.
status	NVARCHAR(10)	Required – Default 'INACTIVE'	Status must be INACTIVE or ACTIVE. Rule status is managed by the background waveless procedure.
priority	NVARCHAR(10)	Required – Default 'Normal'	Priority will either be Normal or Override. Override is to be used for rules that take effect during a peak season, and should have priority over other similar rules.
rule_type	NVARCHAR(20)	Required	Customer, Item, Work Type, Size.
customer_id	INTEGER	Optional	Customer ID from t_customer. Used if rule type is Customer.
customer_delta_type	NVARCHAR(10)	Optional	Whether the rule should be applied per unit, or once per order.
item_number	NVARCHAR(30)	Optional	The Item Number in t_order_detail to check against. Used if rule type is Item.
item_delta_type	NVARCHAR(10)	Optional	Whether the rule should be applied per unit, or once per order.
work_type	NVARCHAR(2)	Optional	The work type associated to the rule.
pick_area	NVARCHAR(10)	Optional	The pick area associated to the rule.
work_type_delta	NVARCHAR(10)	Optional	Value will either be 'Unit' or 'Order' if the rule is for a specific work type.
order_size_start	INTEGER	Optional	When using order size in the rule, this is the start of that range.
order_size_end	INTEGER	Optional	When using order size in the rule, this is the end of that range.

Column Name	Type	Required? – Default Value	Description
order_size_type	NVARCHAR(10)	Optional	The value will be 'Cube', 'Lines', 'Pounds', 'Units', depending on the type of size rule.
processing_time	INTEGER	Required	Processing Time for the rule (in Minutes)
effective_date	DATETIME	Required – Default GETDATE()	Date after which the rule is effective.
expiry_date	DATETIME	Required – Default '12/31/2050 23:59:59.999'	Date after which the rule will no longer be effective. Defaults to a far future date.
last_modified	DATETIME	Required – Default GETDATE()	Tracks when a rule was last modified. The trigger tr_wl_processing_rules_update will update this to the current date whenever a row is updated.

t_wl_result_data

The t_wl_result_data table stores data from imported orders to be used for calculation of applicable Waveless rules. The data will also store the calculated values for cutoff time, processing time, and priority.

Key/Index Name	Column Name	Clustered	Unique
pk_result_data	result_data_id	Y	Y

Column Name	Type	Required? – Default Value	Description
result_data_id	INTEGER	Required	Identity value for the table.
order_number	NVARCHAR(30)	Required	The Order Number
wh_id	NVARCHAR(10)	Required	The Warehouse ID
status	NVARCHAR(10)	Required – Default 'P'	Status of the record. P - Record will be processed C – Calculation on the record has been completed S – Order has been shipped
carrier_id	INTEGER	Optional	The Carrier ID for the order
manifest_carrier_id	INTEGER	Optional	The Service Level for the order
customer_id	INTEGER	Optional	The Customer ID for the order
route	NVARCHAR(30)	Optional	The Route for the order
order_size_cube	INTEGER	Optional	The cube of the order – quantity * length * width * height

Column Name	Type	Required? – Default Value	Description
order_size_lines	INTEGER	Optional	The number of lines on the order
order_size_pounds	INTEGER	Optional	The weight of the order – quantity * uom_weight
order_size_units	INTEGER	Optional	The number of eaches on the order
priority	INTEGER	Optional	The calculated priority of the order after matching to appropriate rules.
processing_start_time	DATETIME	Optional	The time of the first pick on an order.
processing_time	INTEGER	Optional	The calculated processing time of the order, after taking the default processing time and adding any appropriate rules.
cutoff_time	DATETIME	Optional	The next cutoff time of the order, taking the earliest cutoff time of applicable rules.
last_modified	DATETIME	Optional	The last time the record was modified
date_created	DATETIME	Optional	The date and time the record was inserted

t_work_q

The work queue table is used to direct the priority and order of tasks to be performed by warehouse workers. For example, cycle counts and count checks are placed here when triggered by actions in the picking cycle; picks and load/audit requests are placed here when orders are imported to the Warehouse Advantage system.

Application Reference: WKQ

Key/Index Name	Column Name	Clustered	Unique
pk_work_q_id	work_q_id wh_id	Y	Y
i_work_q_pick_ref_number	pick_ref_number	N	N
i_work_q_key_1	work_type wh_id location_id work_status	N	N

Column Name	Type	Required? – Default Value	Description
work_q_id	NVARCHAR(30)	Required	Unique identifier for the work queue record. System generated, controlled though the sequence WORK_Q_ID, with a starting point of 1000, increment by 1, with no cycle.

Column Name	Type	Required? – Default Value	Description
work_type	NVARCHAR(2)	Required	Identifier for the type of work. For valid values, see the Base Work Type Values table following the t_work_types table definition.
description	NVARCHAR(30)	Optional	Describes the kind of work.
pick_ref_number	NVARCHAR(30)	Optional	Load ID, Wave ID, work order, or order identifier.
priority	NVARCHAR(10)	Required – defaults to 10	Priority associated to work request. Valid values are 01 – 99 .
date_due	DATETIME(23)	Optional – defaults to current date	Date the work must be completed by.
time_due	DATETIME(23)	Optional – defaults to 12:00 AM	Time the work must be completed by.
item_number	NVARCHAR(30)	Optional	Item identifier.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
location_id	NVARCHAR(50)	Optional	Valid location in warehouse.
from_location_id	NVARCHAR(50)	Optional	“FROM” location in a Move request.
work_status	NVARCHAR(2)	Required	Status of work request. Valid values are: A – Assigned C – Complete H – Hold P – Picks Completed (for Planned Moves only) U – Unassigned
qty	FLOAT(15)	Not used – defaults to 0	
workers_required	INT(10)	Optional – defaults to 1	Number of workers to assign to this task.
workers_assigned	INT(10)	Optional – defaults to 0	Number of workers assigned to this task.
zone	NVARCHAR(10)	Not used	
employee_id	NVARCHAR(10)	Not used	

Column Name	Type	Required? – Default Value	Description
datetime_stamp	DATETIME(23)	Optional – defaults to current date	Date record was created.

t_work_q_assignment

Table contains information on users assigned to a work queue task.

Application Reference: WQA

Key/Index Name	Column Name	Clustered	Unique
pk_work_q_assignment	work_q_id user_assigned	Y	Y

Column Name	Type	Required? – Default Value	Description
work_q_id	NVARCHAR(30)	Required	Valid work queue identifier.
status	NVARCHAR(10)	Optional	Work queue work status. Valid values are: A – Assigned
user_assigned	NVARCHAR(10)	Required	User assigned to task.
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.

t_work_q_dependency

This table is used to store work queue dependencies.

Key/Index Name	Column Name	Clustered	Unique
pk_work_q_dependency	parent_work_q_id dependent_work_q_id	Y	Y

Column Name	Type	Required? – Default Value	Description
parent_work_q_id	NVARCHAR(30)	Required	Parent work queue identifier.
dependent_work_q_id	NVARCHAR(30)	Required	Dependent work queue identifier.
status	NVARCHAR(10)	Required	Status.
dependency_type	NVARCHAR(10)	Optional – defaults to FS	Dependency type. Valid value is: FS – Finish Start

Column Name	Type	Required? – Default Value	Description
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.

t_work_types

Stores each work type used in the application.

Application Reference: WKT

Key/Index Name	Column Name	Clustered	Unique
pk_work_types	work_type	Y	Y
ui_work_types	wh_id work_type sub_type	N	Y
fk_t_work_types_wh_id	t_whse (wh_id)		

Column Name	Type	Required? – Default Value	Description
work_types_id	INT IDENTITY(10)	Required	Unique identifier.
wh_id	NVARCHAR(10)	Required	Warehouse identifier.
work_type	NVARCHAR(2)	Required	Type of work. For valid values, see the Base Work Type Values table following the t_work_types table definition.
sub_type	NVARCHAR(30)	Optional	Identifies different types within a work type. A work type may or may not have a subtype.
description	NVARCHAR(30)	Optional	Describes kind of work.
status	CHAR(1)	Required	Work type current status flag. Valid value is: A – Available
release_sproc_name	NVARCHAR(100)	Optional	Release stored procedure name. Used to release picking work.
category	NVARCHAR(10)	Optional	Category. Used in picking release. Valid values are: NULL PICK
default_priority	NVARCHAR(30)	Required	Default priority a task of this work type is given upon creation.

Base Work Type Values

Work Type	Description
02	Bulk Pick by Load
03	Order Pick
04	Bulk Pick by Wave
06	Directed Pickup
07	Directed Move
08	Cycle Count
09	Cycle Count Check
10	Load Request
11	Audit Request
12	Ship Request
15	Label Pick
16	Batch Pick
17	Slot Move
18	Slot Pickup
19	Planned Move Pickup
21	Pack Request
22	Putwall Outsort
23	Putwall to Pack
31	Pick/Pass Order
40	VAS
50	Directed Receipt
71	MinMax Replenishment
72	TopOff Replenishment

t_zone

Stores information about zones in the warehouse. A zone is typically an area of locations.

Example

A piece of equipment called a pallet jack that is used in a warehouse can only pick from the first level of the warehouse. Therefore, a zone could be created that identifies all of the first level locations. The t_zone_location table is used to create this relationship.

Note

An easy way to remember that you put away items by class is to remember the phrase “Pick by zone, put by class.”

Application Reference: ZON

Key/Index Name	Column Name	Clustered	Unique
pk_zone	zone wh_id	Y	Y

Column Name	Type	Required? – Default Value	Description
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
zone	NVARCHAR(10)	Required – defaults to ALL	Zone name.
description	NVARCHAR(50)	Optional	Description of the zone.
overflow_zone	NVARCHAR(10)	Optional	Overflow zone.
zone_type	NVARCHAR(20)	Optional	The type of zone. PUTWALL – Locations in this zone will be used as Put Wall locations.
percentage_warning	INTEGER	Optional - defaults 75	Threshold to control percentage the volume of the zone as warning
percentage_critical	INTEGER	Optional - defaults 90	Threshold to control percentage the volume of the zone as critical
inactivity_warning_minutes	INTEGER	Optional – defaults 30	Threshold to control inactivity time of some location in the zone as warning
inactivity_critical_minutes	INTEGER	Optional – defaults 60	Threshold to control inactivity time of some location in the zone as critical

t_zone_loca

This table stores information about locations within a zone and defines the relationship between the zones and locations. See t_zone table description for example.

Application Reference: ZLC

Key/Index Name	Column Name	Clustered	Unique
pk_zone_loca	location_id zone wh_id	Y	Y
i_zone_loca_zone_wh_id	zone wh_id	N	N
i_zone_loca_location_id_wh_id	location_id wh_id	N	N
fk_zone	t_zone (zone, wh_id)		
fk_zone_loca_location	t_location (location_id, wh_id)		

Column Name	Type	Required? – Default Value	Description
wh_id	NVARCHAR(10)	Required	Valid warehouse identifier.
zone	NVARCHAR(10)	Required – defaults to ALL	Valid zone in the warehouse.
location_id	NVARCHAR(50)	Required	Valid location identifier in the warehouse.
pick_seq	NVARCHAR(3)	Optional – defaults to 000	Picking sequence of the zone within the warehouse. Valid values are 000 – 999 .

Warehouse Advantage Views

The following views are available in Warehouse Advantage.

View Name	Description
v_constant	View string constants and locale ID info to accommodate multiple locales.
v_item_uom_min_priority	Returns highest-priority row for each distinct wh_id/item_number/uom in t_item_uom (highest-priority = lowest value in priority column).
v_order	View outbound order master data with type description instead of type_id.
v_pkd_planned_qty	View pick detail planned quantity records. Used in AFO to improve efficiency of the work q release stored procedures.
v_po_master	View inbound order master data with type description instead of type_id.
v_priority	View valid priority and locale ID info to accommodate multiple locales.

View Name	Description
v_status	View valid status and locale ID info to accommodate multiple locales.
v_trailer_type	View trailer types using equipment tables.
v_type	View valid type and locale ID info to accommodate multiple locales.
v_vas_profile_applies	View VAS Profile Applies with dynamic item attributes.

v_track_inbound_summary

Summary of receipt transactions in the INBOUND transaction group on the lot tracing and recall pages.

Column Name	Type	Description
wh_id	NVARCHAR(10)	Valid warehouse identifier. Stored in t_track_summary.
item_number	NVARCHAR(50)	Item identifier. Stored in t_track_item.
po_number	NVARCHAR(100)	Inbound order identifier. Stored in t_track_control.control_number.
display_item_number	NVARCHAR(50)	Item number displayed on RF and on web pages depending on conditional visibility settings. May be different from the value in item_number. Stored in t_track_control.
vendor_code	NVARCHAR(50)	Vendor code. Stored in t_track_control_detail.ship_code.
client_code	NVARCHAR(30)	For 3PL this is the client code and matches one of the defined clients (see t_client). Otherwise, this is the warehouse identifier. Stored in t_track_summary.
summary_date	DATE	Day the inbound transactions were processed. Stored in t_track_summary.
lot_number	NVARCHAR(50)	Lot number of the item. Stored in t_track_item
display_po_number	NVARCHAR(100)	PO number displayed on RF and on web pages depending on conditional visibility settings. May be different from the value in po_number. Stored in t_track_control.display_control_number.
stored_attribute_id	NUMBER(20)	Stored Attribute Collection identifier. Stored in t_track_item.
ship_from_name	NVARCHAR(50)	<i>Optional.</i> Ship from name. Stored in t_track_control_detail.ship_name.
ship_from_addr1	NVARCHAR(30)	<i>Optional.</i> Ship from address line 1. Stored in t_track_control_detail.ship_addr1.
ship_from_addr2	NVARCHAR(30)	<i>Optional.</i> Ship from address line 2. Stored in t_track_control_detail.ship_addr2.
ship_from_city	NVARCHAR(30)	<i>Optional.</i> Ship from city. Stored in t_track_control_detail.ship_city.
ship_from_state	NVARCHAR(3)	<i>Optional.</i> Ship from state/region. Stored in t_track_control_detail.ship_state.
ship_from_zip	NVARCHAR(12)	<i>Optional.</i> Ship from postal code. Stored in t_track_control_detail.ship_zip.
ship_from_country_code	NVARCHAR(5)	<i>Optional.</i> Ship from country code. Stored in t_track_control_detail.ship_country_code.
ship_from_phone	NVARCHAR(30)	<i>Optional.</i> Ship from phone number. Stored in t_track_control_detail.ship_phone.

Column Name	Type	Description
quantity	FLOAT	Receipt quantity for the day. Stored in t_track_summary.
tran_type	NVARCHAR(10)	Transaction type. Stored in t_transaction.
description	NVARCHAR(50)	Tran description. Stored in t_transaction.
trk_summary_id	NUMBER(19)	Unique identifier for t_track_summary.

v_track_issued_summary

Summary of outbound issue and transfer transactions in the ISSUED transaction group on the lot tracing and recall pages.

Column Name	Type	Description
wh_id	NVARCHAR(10)	Valid warehouse identifier. Stored in t_track_summary.
item_number	NVARCHAR(50)	Item identifier. Stored in t_track_item.
client_code	NVARCHAR(30)	For 3PL this is the client code and matches one of the defined clients (see t_client). Otherwise, this is the warehouse identifier. Stored in t_track_summary.
display_item_number	NVARCHAR(50)	Item number displayed on RF and on web pages depending on conditional visibility settings. May be different from the value in item_number. Stored in t_track_item.
summary_date	DATE	Day the issue and transfer transactions were processed. Stored in t_track_summary.
lot_number	NVARCHAR(50)	Lot number of the item. Stored in t_track_item.
control_number	NVARCHAR(100)	<i>Optional.</i> Control_number. Stored in t_track_control.control_number.
quantity	FLOAT	Issued quantity for the day. Stored in t_track_summary.
stored_attribute_id	NUMBER(20)	Stored Attribute Collection identifier. Stored in t_track_item.
destination_location	NVARCHAR(30)	Ship to address. Stored in t_track_control_detail.ship_addr1.
tran_type	NVARCHAR(10)	Transaction type. Stored in t_transaction.
description	NVARCHAR(50)	Tran description. Stored in t_transaction.
trk_summary_id	NUMBER(19)	Unique identifier for t_track_summary.

v_track_kitting_summary

Summary of kit transactions in the KITTING transaction group on the lot tracing and recall pages.

Column Name	Type	Description
wh_id	NVARCHAR(10)	Valid warehouse identifier. Stored in t_track_summary.
item_number	NVARCHAR(50)	Item number of the component item. Stored in t_track_item.
display_item_number	NVARCHAR(50)	Item number displayed on RF and on web pages depending on conditional visibility settings. May be different from the value in item_number. Stored in t_track_item.
kit_id	NVARCHAR(100)	Bill of Materials (BOM) identifier. Stored in t_track_control.control_number. Note This also corresponds to an item number in the item tables.
display_kit_id	NVARCHAR(100)	Item number for the BOM identifier displayed on RF and on web pages depending on conditional visibility settings. May be different from the value in kit_id. Stored in t_track_item.display_item_number.
client_code	NVARCHAR(30)	For 3PL this is the client code and matches one of the defined clients (see t_client). Otherwise, this is the warehouse identifier.
summary_date	DATE	Day the kitting transactions were processed. Stored in t_track_summary.
lot_number	NVARCHAR(50)	Lot number of the component item. Stored in t_track_item.
stored_attribute_id	NUMBER(20)	Stored Attribute Collection identifier of the component item. Stored in t_track_item.
kit_lot_number	NVARCHAR(50)	Lot number of the BOM. Stored in t_track_item.lot_number.
kit_sto_attribute_id	NUMBER(20)	Stored Attribute Collection identifier of the BOM. Stored in t_track_item.stored_attribute_id.
quantity	FLOAT	Kitting quantity for the day of the component item. Stored in t_track_summary.
tran_type	NVARCHAR(10)	Transaction type. Stored in t_transaction.
description	NVARCHAR(50)	Tran description. Stored in t_transaction.
trk_summary_id	NUMBER(19)	Unique identifier for t_track_summary.

v_track_nonorder_summary

Summary of receipt without order transactions in the NONORDER transaction group on the lot tracing and recall pages.

Column Name	Type	Description
wh_id	NVARCHAR(10)	Valid warehouse identifier. Stored in t_track_summary.
item_number	NVARCHAR(50)	Item identifier. Stored in t_track_item.
display_item_number	NVARCHAR(50)	Item number displayed on RF and on web pages depending on conditional visibility settings. May be different from the value in item_number. Stored in t_track_item.
client_code	NVARCHAR(30)	For 3PL this is the client code and matches one of the defined clients (see t_client). Otherwise, this is the warehouse identifier. Stored in t_track_summary.
summary_date	DATE	Day the receipt without order transactions were processed. Stored in t_track_summary.
lot_number	NVARCHAR(50)	Lot number of the item. Stored in t_track_item.
stored_attribute_id	NUMBER(20)	Stored Attribute Collection identifier. Stored in t_track_item.
quantity	FLOAT	Receipt without order quantity for the day. Stored in t_track_summary.
tran_type	NVARCHAR(10)	Transaction type. Stored in t_transaction.
description	NVARCHAR(50)	Tran description. Stored in t_transaction.
trk_summary_id	NUMBER(19)	Unique identifier for t_track_summary.

v_track_outbound_summary

Summary of shipping transactions in the OUTBOUND transaction group on the lot tracing and recall pages.

Column Name	Type	Description
wh_id	NVARCHAR(10)	Valid warehouse identifier. Stored in t_track_summary.
item_number	NVARCHAR(50)	Item number. Stored in t_track_item.
order_number	NVARCHAR(100)	Outbound order identifier. Stored in t_track_control.control_number.
display_order_number	NVARCHAR(100)	Order number displayed on RF and on web pages depending on conditional visibility settings. May be different from the value in order_number. Stored in t_track_control.display_control_number.
display_item_number	NVARCHAR(50)	Item number displayed on RF and on web pages depending on conditional visibility settings. May be different from the value in item_number. Stored in t_track_item.

Column Name	Type	Description
client_code	NVARCHAR(30)	For 3PL this is the client code and matches one of the defined clients (see t_client). Otherwise, this is the warehouse identifier. Stored in t_track_summary.
reason_id	NVARCHAR(10)	<i>Optional.</i> Hold Reason for the item. Stored in t_track_item.
summary_date	DATE	Day the shipping transactions were processed. Stored in t_track_summary.
lot_number	NVARCHAR(50)	Lot number of the item. Stored in t_track_item.
stored_attribute_id	NUMBER(20)	Stored Attribute Collection identifier. Stored in t_track_item.
ship_to_code	NVARCHAR(50)	<i>Optional.</i> Ship to code. Stored in t_track_control_detail.ship_code.
ship_to_name	NVARCHAR(50)	<i>Optional.</i> Ship from name. Stored in t_track_control_detail.ship_name.
ship_to_addr1	NVARCHAR(30)	<i>Optional.</i> Ship from address line 1. Stored in t_track_control_detail.ship_addr1.
ship_to_addr2	NVARCHAR(30)	<i>Optional.</i> Ship from address line 2. Stored in t_track_control_detail.ship_addr2.
ship_to_city	NVARCHAR(30)	<i>Optional.</i> Ship from city. Stored in t_track_control_detail.ship_city.
ship_to_state	NVARCHAR(3)	<i>Optional.</i> Ship from state/region. Stored in t_track_control_detail.ship_state.
ship_to_zip	NVARCHAR(12)	<i>Optional.</i> Ship from postal code. Stored in t_track_control_detail.ship_zip.
ship_to_country_code	NVARCHAR(5)	<i>Optional.</i> Ship from country code. Stored in t_track_control_detail.ship_country_code.
ship_to_phone	NVARCHAR(30)	<i>Optional.</i> Ship from phone number. Stored in t_track_control_detail.ship_phone.
quantity	FLOAT	Shipped quantity for the day. Stored in t_track_summary.
tran_type	NVARCHAR(10)	Transaction type. Stored in t_transaction.
description	NVARCHAR(50)	Tran description. Stored in t_transaction.
trk_summary_id	NUMBER(19)	Unique identifier for t_track_summary.