

THRU-PUT/VPI 7.0 DATABASE REFERENCE GUIDE

This document explains the list of input and output table structures used by Thru-Put/VPi 7.0.

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Table of Contents

Overview	3
Input Tables	3
Output Tables	4
Relationship between Input tables	5
Relationship between Output tables	6
Input Table Details	7
FORECAST(I) TABLE:	7
JIP(I) TABLE:	10
JSBOM(I) TABLE:	11
PART (I) TABLE:	12
PURCHASE(I) TABLE:	17
ROUTE (I) TABLE:	20
SALES(I) TABLE:	23
WKCTR(I) TABLE:	26
WOALLOC(I) TABLE:	28
WOHEAD(I) TABLE:	29
WOROUTE(I) TABLE:	30
PART_PROCESS(I) TABLE:	33
PARTALLOC(I) TABLE:	34
INVENTORY(I) TABLE:	35

Table Layout of Schedule Output Tables	35
T_FROM_INV:	
T_TO_MAKE:	
T_MATL_REQ:	39
T_INTERNAL_DEMAND:	43
PURCHASE_MULTIPLE_OF	43
T_DEMAND_MAPPING:	45
T_REPLENISH_DEMAND TABLE – Not applicable to VPi and applies to Thru-Put only	62

Overview

Thru-Put/VPI database stores the master data downloaded from an ERP System such as XA, SAP etc. Thru-Put/VPI also stores the schedule output tables that are used to put back the schedules to XA, drive Thru-Put/VPI scheduling and purchasing web Reports, Customer Service workbench etc. The database schema layout summarized below corresponds to Thru-Put/VPI as of version 7.0.168.

Note:

Following naming convention is followed while summarizing the tables.

<tableName>(I) Indicates Input table.

<tableName>(O) Indicates Output table.

In each of the tables, columns with prefix "indicate the primary Key. They need to be provided in order to successfully insert a record to the table. For the remaining fields, you can provide "value for Text, and 0 for numbers and "for Date values. For date values, it may be wise to copy the date from another field if they are equal.

Input Tables

Following is the summary of input tables:

- PART Item master
- WKCTR Facility Master or workcenter List
- ROUTE Standard operation Routing definitions
- PART_PROCESS Item specific and time effective routing allocation Information summary
- JSBOM Bill of Materials with where used Information
- PURCHASE Incoming purchase orders
- SALES List of Customer Orders, ISL orders
- Forecast Forecast orders and Safety stocks and Replenishments
- WOHEAD Manufacturing order header or work order header master list

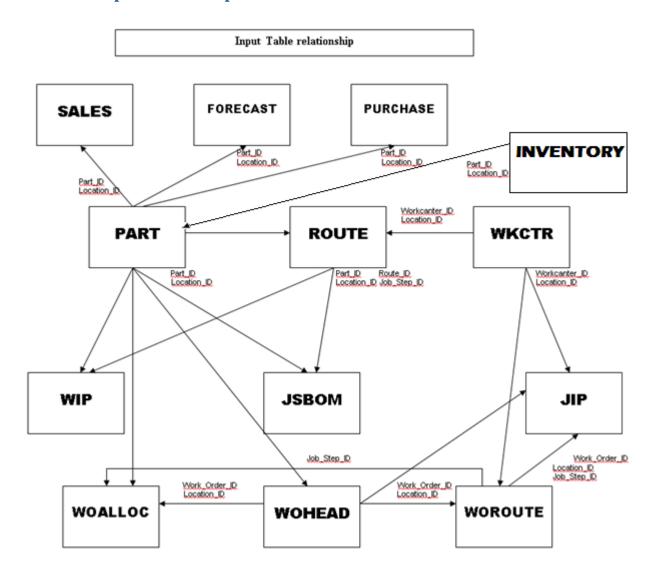
- WOROUTE Operation details, resource requirements and completion status of individual job step details, and run time details
- WOALLOC Component allocations and issues for an open manufacturing or assembly work order.
- JIP Jobs in Progress. Progress details on the ongoing long running operation and outside processing operation details.
- INVENTORY Contains QTY ON HAND value for the parts.

Output Tables

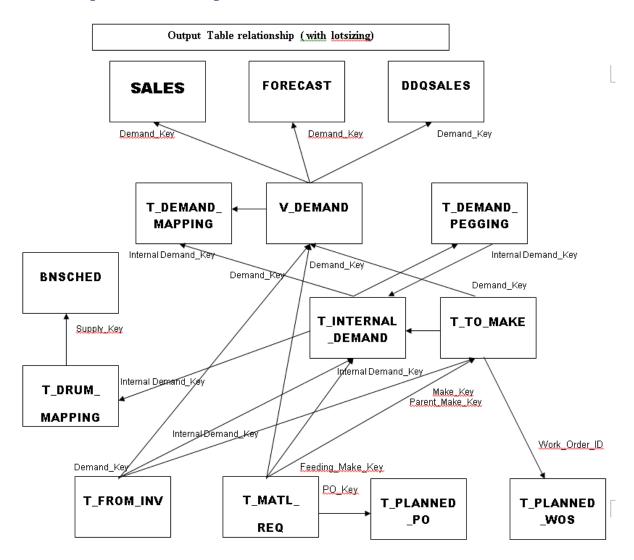
Following is the summary of output tables:

- T_INTERNAL_DEMAND All work order start and end summary
- T_FROM_INV All on hand assignments to the work orders and end order and forecasts
- T_TO_MAKE All operation Starts on the work orders and suggested work orders.
- T_MATL_REQ All purchase item supply consumptions and requisition requirements
- T_DEMAND_PEGGING Component work order allocation mapping
- T_DEMAND_MAPPING All work order allocation information wrt final customer order or forecasts and safety stocks
- T_PLANNED_PO All Suggested Purchase order recommended by Thru-Put/VPI Scheduling
- T_PLANNED_WOS- All Suggested Work order recommended by Thru-Put/VPI Scheduling
- SUPPLY_DEMAND Bucketized Item Supply Demand information.

Relationship between Input tables



Relationship between Output tables



Output Table relationship (without lotsizing) FORECAST **DDQSALES** SALES Demand_Key Demand Key Demand Key V_DEMAND Demand_Key Demorand Key Demand_Key T_TO_MAKE Parent Make Key Work Order ID Eeeding Make Key Feeding Make Key PO_Key T_PLANNED_WOS T_PLANNED_PO T_FROM_INV T_MATL_REQ

Input Table Details

In the following section, a quick specification of all the fields contained in individual input tables is given:

FORECAST(I) TABLE:

All the forecast orders, safety stocks and replenishment or Kanban demands are included in this table.

Column Name	Field Type	Description	Default

			value
FORECAST_ID	TEXT (15)	Forecast ID.	
PART_ID	TEXT (40)	Unique identifier for this part in the supply chain.	
TARGET_DATE	DATE/TIME	The date the forecast is due.	
FORECAST_QTY	NUMBER (DOUBLE)	Quantity of the forecast.	
CONSUMED_QTY	NUMBER (DOUBLE)	Quantity of the forecast which has been consumed. Input field. The forecast that has been consumed due to shipped orders.	
EARLIEST_START	DATE/TIME	Obsolete.	
PROJECTED_COMPLETION	DATE/TIME	The date THRU-PUT/VPI projects this forecast to be complete. Updated after a scheduling run.	
ORIG_PROJECTED_COMPLETION	DATE/TIME	Original date THRU-PUT/VPI projects this forecast to be complete. This date is not updated after a scheduling run.	
PART_FAMILY_ID	TEXT (15)	Family ID to which this forecast belongs.	
QTY_ON_ORDER	NUMBER (DOUBLE)	Quantity of the forecast consumed by existing sales orders if THRU-PUT/VPI does Forecast Consumption. Output field.	
FORECAST_TYPE	NUMBER (DOUBLE)	Output field. Valid values are: 0 Input Forecast 1 Pull Signal Forecast 2 Safety Stock 3 Unused 4 Split Forecast 5 Deleted Forecast. 6 Planning Bill Forecast children	
PARENT_KEY	NUMBER (DOUBLE)	Used during splitting. When a single forecast record is split into multiple forecast records, each split forecast has the original forecast's key in this field.	

*DEMAND VEV	NUMBER	
*DEMAND_KEY	NUMBER (DOUBLE)	Description this entry is pegged to. The unique sales or forecast entry.
STATUS	NUMBER (DOUBLE)	Not an input field. Maintained by THRU-PUT/VPI to track the order life cycle. First digit Order type 0 New order 1 Old order Second digit Reserved status 0 Not reserved 1 DDQ tested 2 Unprocessed 3 Reserved 4 Confirmed 5 Overdue 6 Interplant Third digit Schedule status 0 Unscheduled 1 Scheduled 2 Closed.
BUFFER_REMAINING	NUMBER (DOUBLE)	Shipping buffer remaining for the projected completion date. Updated by Symphony and used in order board matching.
FLEX_MIN_BUFFER	NUMBER (DOUBLE)	Flexible Minimum buffer for the projected completion date. Updated by Symphony and used in order board matching.
LOCATION_ID	TEXT (15)	Plant ID when you installed THRU- PUT/VPI. Unique value across the internal supply chain. Downloaded when data for more than one plant are downloaded.
CUSTOMER_ID	TEXT (15)	All customers in the supply chain, including the entity in which THRU-PUT/VPI is implemented.
CUSTOMER_LOCATION_ID	TEXT (15)	Downloaded field; with Customer_ID, uniquely identifies the designation for a specific order. Affects forecast consumption. Useful in internal supply chains when the same product is shipped to multiple locations.
PREV_KEY	NUMBER (DOUBLE)	Written by DBUtil for old orders as a result of order-board matching. Allows the Resynchronization process to continue pegging orders.
COMMIT_DATE	DATE/TIME	Maintained by the Customer Collaboration function. A flag in the Synchronization engine automatically modifies this date with the projected completion during the Write

		Schedule pass. DBUtil copies the value from session to session for existing orders. For new orders, the date is automatically set to 01/01/1901.	
NEED_DATE	DATE/TIME	Maintained by the Customer Collaboration function. DBUtil copies the value from session to session for existing orders. For new orders, set to the target date.	
ORIGINAL_TARGET_DATE	DATE/TIME	Maintained by DBUtil.	
LAST_MODIFIED	TEXT (20)	If set to collaboration, DBUtil retains the target date.	

JIP(I) TABLE:

Contains the information regarding currently progressing work order operations (long running). This could be also used to guide Constraint schedule to specify what is the currently running set up.

Column Name	Field Type	Description	Default value
*WORK_ORDER_ID	TEXT (25)	Workorder ID.	
*PART_ID	TEXT (40)	Unique identifier for this part in the supply chain.	
*JOB_STEP_ID	NUMBER(DOUBLE)	If this inventory is WIP, represents the job step ID in which the WIP is found1 Raw materials QOH -2 FGI	
*WORKCENTER_ID	TEXT (15)	If this inventory is WIP, represents the job step ID in which the WIP is found1 Raw materials QOH	

		-2 FGI	
*WORKCENTER_UNIT	NUMBER(DOUBLE)	Unit number of a machine in the Workcenter.	
QTY_IN_PROCESS	NUMBER(DOUBLE)	Indicates Quantity in progress for this workorder for the mentioned operation.	
SETUP_TIME_REMAINING	NUMBER(DOUBLE)	Indicates Setup time remaining to complete the mentioned operation for this workorder. This value is in seconds.	
RUN_TIME_REMAINING	NUMBER(DOUBLE)	Indicates Run time remaining to complete the mentioned operation for this workorder. This value is in seconds.	
LOCATION_ID	TEXT (15)	Plant ID when you installed THRU-PUT/VPI. Unique value across the internal supply chain. Downloaded when data for more than one plant are downloaded.	

JSBOM(I) TABLE:

Contains standard bill of Material Information. Work order specific component information can be overrriden in WOALLOC table summarized later.

Column Name	Field Type	Description	Default value
*PARENT_PART_ID	TEXT (40)	Parent Part ID	
*PARENT_JOB_STEP_ID	NUMBER (DOUBLE)	Job step at which the child part is required for manufacturing the parent.	

*PART_ID	TEXT (40)	Unique identifier for this part in the supply chain.	
QTY_PER_PARENT	NUMBER (DOUBLE)	How many pieces of part is required to manufacture the parent part.	
*EFFECTIVE_FROM	DATE/TIME	Starting date when this relationship is valid	
*EFFECTIVE_TO	DATE/TIME	Ending date when this relationship is valid.	
*PARENT_ROUTE_ID	TEXT (15)	Unique identifier for Route process on which this component is required by Parent Part. This will have a corresponding match on ROUTE_ID column in ROUTE table.	
*LOCATION_ID	TEXT (15)	Plant ID when you installed THRU-PUT/VPI. Unique value across the internal supply chain. Downloaded when data for more than one plant are downloaded.	

PART (I) TABLE:

Contains all the active items in the Item master which are included in Thru-Put/VPI planning and scheduling.

Column Name	Field Type	Description	Default value
*PART_ID	TEXT (40)	Unique identifier for this part in the supply chain.	
PART_DESC	TEXT (60)	Description of the part.	
QTY_ON_HAND	NUMBER (DOUBLE)	The quantity on hand for this Part. Obsolete and Moved into newly created INVENTORY table.	
PART_TYPE	NUMBER (DOUBLE)	Indicates whether the part is one of the following: 0 Part with independent demand 1 Purchase item 2 Other part 3 Subcontract part.	
MANUFACTURE_UOM	TEXT (15)	A field in the Part file that specifies the unit in which the Quantity of an item is managed.	
SAFETY_STOCK	NUMBER (DOUBLE)	A quantity of stock in inventory to protect against fluctuations in Demand or supply.	

MRP_LEAD_TIME	NUMBER (DOUBLE)	The minimum lead time required to expedite a purchase (raw) Material. If a material shortage within the minimum lead time exists, the order is pushed out. If shortages beyond the minimum lead time exist, THRU-PUT/VPI assumes that expediting the material from the vendor will satisfy these Shortages. Specified in the number of working days in the Default calendar.	
CONSUME_FORECAST	TEXT (1)	The forecast for the part defined in Part ID has been consumed. Valid values are: Y Forecast consumed N Forecast unconsumed. If the forecast is unconsumed, the forecast is reduced by customer orders and the remaining quantity is Scheduled in the plant.	
PLANNING_FENCE	NUMBER (DOUBLE)	The time period in the planning horizon inside of which changes to the schedule may adversely affect component schedules, capacity plans, customer Deliveries, and cost.	
AGGREGATION_PERIOD	NUMBER (DOUBLE)	The number of days over which orders are aggregated, for items using aggregation period as their Replenishment/lot sizing policy	
PURCHASE_MULTIPLE_OF	NUMBER (DOUBLE)	A multiple by which requirements are rounded up when purchase Orders are generated. See Minimum_Lot_Size for an explanation of the relationship Between these two fields.	
MIN_LOT	NUMBER (DOUBLE)	An upper limit on the quantity of every CPO generated during the Master planning process. Used in all lot-sizing policies except Lot-for-lot.	
ANALYST_ID	TEXT (15)	The planner responsible for a Part.	
COST	NUMBER (DOUBLE)	The average purchase price for A part. Relevant only for purchased parts and raw Materials.	
LOT_SIZING_POLICY	NUMBER (DOUBLE)	A field in the Part file that contains a code used during the master planning process to indicate the lot-sizing technique Selected for a given item. Lot sizing policy is applied while generating CPOs against independent demand (unconsumed portion of the forecast and customer orders) For every item. Valid codes are: 0 Lot for lot	

		1 Daily rate	
		2 Aggregation period	
		3 Pull signal.	
		The lot-sizing policy considers	
		dependent demand for the item	
		when applied to stock-type Items.	
		The part defined in Part_ID is a	
PHANTOM_TYPE	NUMBER (DOLINI E)	Phantom part. Valid values are:	
	(DOUBLE)	0 Non-phantom (default)	
		1 Phantom	
		Phantom parts are a group of pieces commonly made	
		Together.	
DECORDED DODAY	MANDED	The expected consumption of an	
REORDER_POINT	NUMBER (DOUBLE)	Item during the planning fence.	
	(2 O O D D D)	One of the parameters used by	
MIN_LEVEL	NUMBER	Pull signal lot-sizing policy. If the	
	(DOUBLE)	POH at planning fence drops below this value, CPOs are	
		generated to raise the inventory	
		Back to the minimum level.	
		CPOs are made due at the Planning fence. Synonymous	
		With safety stock.	
70 711 77		A field in the part file used to	
FC_FAMILY_ID	TEXT (15)	support forecasts at the part Family level. THRU-PUT/VPI consumes the	
		forecast against customer orders	
		for items that belong to this Forecast family.	
		The average selling price per	
SELLING_PRICE	NUMBER	Unit.	
	(DOUBLE)		
DAW MATERIAL TYPE	NUMBER	Type of raw material. Meaningful only for parts that are raw	
RAW_MATERIAL_TYPE	(DOUBLE)	Materials (Part Type 1). Valid	
		values are:	
		0 Normal 1 Ignore	
		2 Priority.	
DINED LEAD (ED C	NUMBER	The lead time, in days, for buyer Action if this is a raw material.	
BUYER_LEAD_TIME	NUMBER (DOUBLE)	Action ii tiiis is a raw material.	
	\ ,	A field in the Part file that	
DOCK_TO_STOCK_LEAD_	NUMBER	specifies the amount of time	
	(DOUBLE)	required to move a part from the Shipping dock to stock. A raw	
TIME		material is available on the shop	
		floor after MRP_Lead_Time +	
		Buyer_Lead_Time + Dock_To_Stock_Time.	
		2 VII_1 V_0VVII_1 IIIIVI	

BUYER_ID	TEXT (15)	The buyer for a raw material.	
P_TO_M_CONV_FACTOR	NUMBER (DOUBLE)	The factor by which one quantity Is converted to another.	
PURCHASE_UOM	TEXT (15)	The unit of measure in which the Quantity of an item is purchased.	
PRIMARY_ROUTE_ID	TEXT (15)	Identifies the primary route this part follows, if the routing file has multiple routes specified for this Part.	
PART_CODE	NUMBER (DOUBLE)	Indicates whether a part is an MPS item (make-to-stock). Valid values are: 0 Non-MPS 1 MPS item.	
MAX_LEVEL	NUMBER (DOUBLE)	Indicates maximum level of inventory to be retained for the given item in component shop. This is one of the parameters used by Pull signal lot-sizing policy. Such items at intermediate levels of product structure can be defined as Replenishment items(Kanban items) and their schedules can be driven by Minimum and Maximum levels of inventory instead of shipping/drum buffer.	
PLANNING_BILL_PART	NUMBER (DOUBLE)	Specifies whether a part is a Planning bill part. Valid values are: 0 No (default) 1 Yes.	
PRIMARY_VENDOR_ID	TEXT (15)	The primary vendor for this part.	
MAKE_MAX_LOT	NUMBER (DOUBLE)	Used for sales splitting. When this field is set, THRU-PUT/VPI ensures that work orders for this part do Not exceed this amount.	
YIELD	NUMBER (DOUBLE)	Used during purchasing as a factor to account for loss of Material due to some error. Automatically adjusts the quantity of the purchase order based on how much is typically scrapped for this part, defined in Part_ID.	
MIN_MRP_LEAD_TIME	NUMBER (DOUBLE)	The minimum lead time required to expedite a purchase (raw) Material. If a material shortage within the minimum lead time exists, the order is pushed out. If shortages beyond the minimum lead time exist, THRU-PUT/VPI assumes that expediting the material from the vendor will satisfy these Shortages. Specified in the number of working days in the Default calendar.	
VENDOR_LOCATION_ID	TEXT (15)	The specific plant for the vendor For whom this rule applies.	

PRODUCT_FAMILY	TEXT (25)	Used in CSW. You can reallocate resources among	
		different products within a Specific product family.	
		If similar parts in the supply	
CORPORATE PART	TEXT (1)	chain are identified in a part	
COM ORATE_TAKT	TEXT (1)	cross-reference table, this ID is	
		used in the Supply Chain	
		Planning module to represent	
		Those parts.	
		Plant ID when you installed	
*LOCATION_ID	TEXT (15)	THRU-PUT. Unique value across the Internal supply chain.	
		Downloaded when data for more	
		Than one plant are downloaded.	
		Default reschedule code of mentioned part	
RESCHEDULE_FLAG	NUMBER	used for planning, if not downloaded in	
_	(DOUBLE)	PURCHASE/WOHEAD tables. One of the	
		following:	
		0 Default to item reschedule code	
		1 No automatic rescheduling	
		2 Reschedule out only 3 Reschedule in only	
		4 Reschedule both out and in	
		5 No rescheduling; no exception messages;	
		schedule planned	
		orders as required	
		6 Defer exception only but schedule others	
		earlier.	
EDOZEN BEDIOD	NUMBED	The day deadle former work different be-	
FROZEN_PERIOD	NUMBER (DOUBLE)	Used to decide frozen period fence by adding this number to Current_Date. This	
	(DOUBLE)	value is in days.	
		value is in outs.	
		It is used only for VPi planning to compute	
		the reschedule flag. If Due Date of WO is	
		within the frozen fence, then the given WO	
		can't be pulled-in or pushed out.	
DEMAND_FENCE	NUMBER	Indicates Forecast Fence by Part Number.	
	(DOUBLE)	This is used in dropping the forecast.	
		Earlier, this was a global setting in DBUtil	
		(order board option page). Now, this is part specific.	
		1	
MINIMUM CHIPPING PURES	NUMBER	Indicates part-specific flexible minimum shipping buffer. This value is in hours. If	
MINIMUM_SHIPPING_BUFFER	NUMBER (DOUBLE)	this value is non-zero, then you can override	
	(DOUBLE)	the global shipping buffer specified in	
		config.ini/database table. Each shippable	
		product can have its own value for shipping	
		buffer value. This functionality very useful	
		where you have independent orders for long	
		lead items (end products) and short lead	
		time. You can specify a large buffer for a	
		long lead item and less for a short lead item.	
		We think this may be very useful in make order assembly environment also.	
		orger assembly environment also.	

TYPICAL_SHIPPING_BUFFER	NUMBER (DOUBLE)	Indicates part-specific flexible minimum shipping buffer. This value is in hours. If this value is non-zero, then you can override the global shipping buffer specified in config.ini/database table. Each shippable product can have its own value for shipping buffer value. This functionality very useful where you have independent orders for long lead items (end products) and short lead time. You can specify a large buffer for a long lead item and less for a short lead item. We think this may be very useful in make order assembly environment also.	
PLAN_PROFILE_NAME	TEXT (15)	Applicable when using Sourcing rules feature.	

PURCHASE(I) TABLE:

All incoming purchase orders and firm Planned Purchase orders are included in this table. If PO requisitions are included they are treated just like firm planned purchase orders.

Column Name	Field Type	Description	Default value
ORDER_ID	TEXT(15)	Purchase order ID	
LINE_NUMBER	NUMBER(DOUBLE)	Line number for purchase order	
PART_ID	TEXT(40)	Unique identifier for this part in the supply chain.	
DUE_DATE	DATE/TIME	For new POs, populated by the date downloaded from the ERP system. For existing POs on which collaboration has been performed, the software maintains this value by download PO matching	
ORDER_QTY	NUMBER(DOUBLE)	Order quantity.	
BUYER_ID	TEXT(15)	The buyer for a raw material.	
VENDOR_ID	TEXT(15)	The vendor in the SC_VENDOR_MASTER table for which this rule applies.	

*DEMAND_KEY	NUMBER(DOUBLE)	Description this entry is pegged to. The unique identifier for purchase records.	
PARENT_KEY	NUMBER(DOUBLE)	Downloaded field	
STATUS	NUMBER(DOUBLE)	Modified by the user in the material planning module. Value is changed during the Write Schedule pass. Possible values: 0 Normal 1 Modified 2 Added 4 Split 5 Deleted 6 Merged.	
LOCATION_ID	TEXT(15)	Plant ID when you installed THRU-PUT/VPI. Unique value across the internal supply chain. Downloaded when data for more than one plant are downloaded.	
VENDOR_LOCATION_ID	TEXT(15)	Downloaded field This purchase order is purchased from this specific location of this vendor. The specific plant for the vendor for whom this rule applies.	
UNIT_COST	NUMBER(DOUBLE)	Cost per piece for the part purchased in the PO line.	
COMMIT_DATE	DATE/TIME	Maintained by Supplier Collaboration. DBUtil copies the value from session to session for existing orders. For new orders, the date is automatically set to 01/01/1901	
QTY_RECEIVED	NUMBER(DOUBLE)	Downloaded field The quantity of the PO already received. PO quantity due is PO quantity minus the Quantity received.	
RELEASE_NUMBER	NUMBER(DOUBLE)	Downloaded field Used to capture multiple releases for the same PO number and PO line number combination. Used as part of the key.	
FIRM_RELEASE	TEXT(1)	Downloaded field	
NEED_DATE	DATE/TIME	The buyer can manually populate this field using Buyer Collaboration. A flag in the Synchronization engine automatically updates this field with a minimum purchase order exception date for this purchase order and purchase-order line	
ORIGINAL_DATE	DATE/TIME	Populated by DBUtil with the due date for new purchase orders.	
MODIFIED_BY	TEXT(15)	If the purchase order has been modified by collaboration, THRU-PUT/VPI has the master dates. The downloaded purchase order due date is ignored. If the purchase order has not been modified, the PO due date	

		is replaced with the downloaded date. Possible values: 0 None 1 Synchronization Engine 2 Collaboration	
NEED_QTY	NUMBER(DOUBLE)	The quantity the schedule needs against this purchase order. Generated as an output of the Synchronization engine.	
COMMIT_QTY	NUMBER(DOUBLE)	The quantity committed by the supplier during Collaboration.	
PLAN_DATE	DATE/TIME	Reserved for future use	
PLAN_QTY	NUMBER(DOUBLE)	Reserved for future use	
ENTRY_DATE	DATE/TIME	Date on which this purchase order was downloaded to DBUtil.	
RESCHEDULE_FLAG	NUMBER(DOUBLE)	Default reschedule code of mentioned part used for planning, if not downloaded in PURCHASE/WOHEAD tables. One of the following: 0 Default to item reschedule code 1 No automatic rescheduling 2 Reschedule out only 3 Reschedule in only 4 Reschedule both out and in 5 No rescheduling; no exception messages; schedule planned orders as required. 6 Defer exception only but schedule others earlier.	
ORDER_TYPE	TEXT(1)	Contains the Order Type and can be blank also.	
SALES_ORDER_ID	TEXT(15)	Indicates end Customer ORDER_ID. User can optionally download the end customer ORDER_ID in this field if the MO/PO is hard-pegged to a particular SALES order. Please note that when you do hard-peg a MO/PO, the part needs to be non-lotsized (no order modifiers/aggregation etc) so are it's parent items reaching until the final product for which there is a sales order. Also, make sure when you specify an order to be hard-pegged, that order_ID do exists in SALES download. Otherwise, this MO/PO gets unused and a new suggested MO/PO will be created. Please note that when you hard-peg a work order, it is best to keep the work order open until the order is shipped instead of receiving to On Hand.	

ROUTE (I) TABLE:

Contains standard and alternate route information for make item listed in the Item master or PART table. Thru-Put/VPI will follow the operations specified for a given item in this table and recommend future work orders as per the routing records.

Column Name	Field Type	Description	Default value
*PART_ID	TEXT (40)	Unique identifier for this part in the supply chain.	
*JOB_STEP_ID	NUMBER (DOUBLE)	If this inventory is WIP, represents the job step ID in Which the WIP is found1 Raw materials QOH	
		-2 FGI.	
*ROUTE_ID	TEXT (15)	Sequence number of item process.	
ROUTE_PRIORITY	NUMBER (DOUBLE)	Indicates if this is PRIMARY ROUTE or an ALTERNATIVE_ROUTE. If value is 0 for this field, then it indicates PRIMARY_ROUTE; and if > 0, it indicates ALTERNATIVE_ROUTE.	
WORKCENTER_ID	TEXT (15)	Work center ID for this job step ID/part combination.	
BATCH_SIZE	NUMBER (DOUBLE)	Indicates maximum number of pieces which can be processed at same time. E.g. A value of 100 for an oven-type operation indicates that 100 pieces of that item can be placed in the oven simultaneously and that the oven will take as much time to bake one piece of the item, as it will for 100 pieces. This factor affects the rope length calculation and drum scheduling if this work center is identified as a drum. This field can have only positive integer number.	
SETUP_TIME	NUMBER (DOUBLE)	Reserved for future use.	
RUN_TIME_PER_BATCH	NUMBER (DOUBLE)	Reserved for future use.	
IDLING_TIME_PER_BATCH	NUMBER (DOUBLE)	Reserved for future use.	
YIELD	NUMBER (DOUBLE)	Used during purchasing as a factor to account for loss of Material due to some error. Automatically adjusts the quantity of the purchase order based on how much is typically scrapped for this part, defined in	

		Part_ID.	
FAMILY_ID	TEXT (15)	Indicates MAJOR FAMILY ID and is used to group operations with a common setup. The setup is saved if back-to-back operations scheduled on the drums have the same Family ID. The complete setup is avoided if the back-to-back operations are the same (same part and job step). A minor setup is incurred if the back-to-back operations are not the same but belong to the same family. A major (full) setup is incurred in all other cases.	
PART_TYPE	NUMBER (DOUBLE)	Indicates whether the part is one of the following: 0 Part with independent demand 1 Purchase item 2 Other part 3 Subcontract part.	
JOB_STEP_DESC	TEXT (40)	Description of current operation	
MINOR_FAMILY_ID	TEXT (15)	Indicates MINOR FAMILY ID and is used to group operations with a common setup. A group of operations with a common minor setup within a major family. Minor setup is saved if back-to-back operations have the same value for Minor_Family_ID.	
MINOR_SETUP_TIME	NUMBER (DOUBLE)	Setup Time incurred when the drum task following the previous drum task with the same Major_Family but different Minor_Family.	
CLEAN_UP_TIME	NUMBER (DOUBLE)	Time incurred for cleaning of workcenter. As an example, during an oven operation, once current batch is out, we may want to clean the over or cool the over down before placing next batch.	
MAX_LOT	NUMBER (DOUBLE)	Obsolete.	
EFFECTIVE_FROM	DATE/TIME	Starting date when this Relationship is valid.	
EFFECTIVE_TO	DATE/TIME	Ending date when this Relationship is valid.	
*LOCATION_ID	TEXT (15)	Plant ID when you installed THRU-PUT/VPI. Unique value across the Internal supply chain. Downloaded when data for more Than one plant are downloaded.	MANDATORY
TOOL_ID	TEXT (15)	Downloaded field.	
LABOR_SETUP_TIME	NUMBER (DOUBLE)	The time taken by labor to do the set up for a given part operation. Time is in seconds.	

		Useful for determining the labor load.	
LABOR_RUN_TIME_PER_BATCH	NUMBER (DOUBLE)	The time it takes to do complete one batch for a given part operation. Time is in seconds. Useful for determining the labor load.	
PREFERRED_UNIT	TEXT (25)	Any number between 0 and maximum number units on a given workcenter. Applicable only for drums. If this field is set, software will place the tasks for a particular operation on the specific unit of the workcenter. Indicates the most preferred unit on which drum task should be placed for the current operation. This number can't be greater than total working units of workcenter. User can also specify multiple units in sequence on which application should try to place the task while doing drum scheduling. For such cases, they can separate units by dash. As an example, assume drum MLG11X has 5 units. User would like to place drum task on unit 2 and 3 only for this operation. So, he can specify this column value as 2-3.	
TRANSFER_SIZE	NUMBER (DOUBLE)	If this value is positive and is greater than or equal to Batch Size, then this number will be used in determining the overlap between the operations. This works out very well when two successive operations are on same work center but the work center itself has multiple units. As soon as the first transfer batch size is complete, next operation can be started on another unit, thereby reducing the manufacturing leadtime on a part. Applicable for both drums and non-drums.	
ASSIGNED_UNITS	NUMBER (DOUBLE)	Any number between 0 and maximum number units on a given workcenter. Applicable only for drums . Indicates number of units which can be used for processing non-drum task; instead of scheduling complete task on one unit.	

SALES(I) TABLE:

All customer orders are listed in this table. Please note that primary key autogenerated by Thru-Put/VPI based upon Unique key stored in RESPARA table. This table also should include closed order from current month to track orders efficiently.

Column Name	Field Type	Description	Default value
ORDER_ID	TEXT(15)	ID number of the sales order.	
LINE_NUMBER	NUMBER(DOUBLE)	Line number of sales order.	
PART_ID	TEXT(40)	Unique identifier for this part in the supply chain.	
PROMISE_DATE	DATE/TIME	The date THRU-PUT/VPI uses to set relative priorities.	
CUSTOMER_ID	TEXT(15)	Customer for the sales order. All customers in the supply chain, including the entity in which THRU-PUT/VPI is implemented.	
ORDER_QTY	NUMBER(DOUBLE)	Order quantity for this sales order.	
ORDER_TYPE	NUMBER(DOUBLE)	Obsolete	
EARLIEST_START	DATE/TIME	Obsolete	
QTY_SHIPPED	NUMBER(DOUBLE)	Quantity already shipped.	
REQUEST_DATE	DATE/TIME	Not an input field. THRU-PUT/VPI stores the original promise date of an order. Used during order board matching of daily flow.	
TARGET_COMPLETION	DATE/TIME	Date THRU-PUT/VPI uses to set relative priorities. By default, the promise date. In forecasting, the due date of the forecast.	
PROJECTED_COMPLETION	DATE/TIME	THRU-PUT/VPI's projected completion date of this sales order. Updated after a scheduling run.	
SHIPMENT_STATUS	TEXT(3)	Obsolete.	
STATUS	NUMBER(DOUBLE)	Maintained by THRU-PUT/VPI to track the order life cycle.	
SOURCE	NUMBER(DOUBLE)	Not currently used	

PARENT_KEY	NUMBER(DOUBLE)	Obsolete
*DEMAND_KEY	NUMBER(DOUBLE)	Description this entry is pegged to. The unique sales or forecast entry.
SHIPPING_GROUP	TEXT(15)	Group number. If partial shipments are permitted, sales within same group have common delivery dates.
BUFFER_REMAINING	NUMBER(DOUBLE)	Shipping buffer remaining for the projected completion date. Updated by Symphony and used in order board matching.
SELLING_PRICE	NUMBER(DOUBLE)	The average selling price per unit.
ORIG_PROJECTED_COMPLETION	DATE/TIME	Indicates original Projected Completion of sales order.
ORDER_BUFFER	NUMBER(DOUBLE)	
ORDER_BUFFER_REMAINING	NUMBER(DOUBLE)	Shipping buffer remaining for the projected completion date. Updated by Symphony and used in order board matching.
FLEX_MIN_BUFFER	NUMBER(DOUBLE)	Flexible Minimum buffer for the projected completion date. Updated by Symphony and used in order board matching.
LOCATION_ID	TEXT(15)	Plant ID when you installed THRU- PUT/VPI. Unique value across the internal supply chain.
CUSTOMER_LOCATION_ID	TEXT(15)	The shipment location for the customer order.
PO_NUMBER	TEXT(15)	Downloaded field The purchase order number supplied by the customer who placed the order.
PO_LINE_NUMBER	NUMBER(DOUBLE)	Downloaded field The specific purchase order line number that is scheduled. Along with PO number, helps identify the sales order during customer collaboration.
COMMIT_DATE	DATE/TIME	Maintained by Customer Collaboration. Synchronization automatically modifies this date with the projected completion date during Write Schedule Pass
NEED_DATE	DATE/TIME	The latest need date populated by Customer Collaboration. DBUtil copies the value from session to session for existing orders. For

		new orders, set to the original promise date.	
ORIGINAL_PROMISE_DATE	DATE/TIME	Replaces the request date.	
ORIGINAL_NEED_DATE	DATE/TIME	The initial date that Customer Collaboration populated. Initially set to the original promise date for new orders.	
AGREED_DATE	DATE/TIME	Maintained by Customer Collaboration. Initially set to the promise date.	
MODIFIED_BY	TEXT(15)	If modified by Collaboration, THRU-PUT/VPI stores the master dates and downloaded sales due date information is ignored. If the sales order has not been modified by Collaboration, the need date is replaced with the downloaded date for both existing and new orders.	
PREV_KEY	NUMBER(DOUBLE)	Written by DBUtil for old orders as a result of order-board matching. Allows the Resynchronization process to continue pegging orders.	
SALES_RELEASE_NO	NUMBER(DOUBLE)	Indicates DUE_TIME for Sales order. If this value is zero, the due time is end of the day based upon the DEFAULT calendar; else schedule will be Due Date + SALES_RELEASE_NO of the Sales orders. If the order is pushed out after Thru-Put/VPI Session, then the new Delivery time will not be rounded to the end of the day and left wherever it will fall and write the New due time in another Column PO_RELEASE_NO. Values in these columns are offset in Seconds from the beginning of the day based upon DEFAULT calendar. In order to use this functionality, following config.ini need to be set as below(Second one manually entered) OverlapChildAndParentOrdersInAP=1 EnableMidDayArrivalsAndShipments=1	
PO_RELEASE_NO	NUMBER(DOUBLE)	Indicates NEW DUE_TIME for Sales order. If the order is pushed out after Thru- Put/VPI Session, then the new Delivery time will not be rounded to the end of the day and left wherever it will fall and write the New due time in another Column PO_RELEASE_NO. Values in this column is offset in Seconds from the beginning of the	

		day based upon DEFAULT calendar. In order to use this functionality, following config.ini need to be set as below (Second one manually entered) OverlapChildAndParentOrdersInAP=1 EnableMidDayArrivalsAndShipments=1	
REQUEST_TIME	NUMBER(DOUBLE)		
DEMAND_STARTDATE	DATE/TIME		
DEMAND_STARTTIME	NUMBER(DOUBLE)		
DEMAND_ENDDATE	DATE/TIME		
DEMAND_ENDTIME	NUMBER(DOUBLE)		
DEMAND_RATE	NUMBER(DOUBLE)		
DELIVERY_STARTDATE	DATE/TIME		
DELIVERY_STARTTIME	NUMBER(DOUBLE)		
MATL_ORDERNO	TEXT(15)		

WKCTR(I) TABLE:

This is facility Master or all the work centers in your shop floor. You can include Labor and Tools if they are indeed decide the processing times on a workcenter. Both outside processing and inside processing work centers are included. A workcenter by definition is a group of machines with identical capability and working hours and are interchangeable.

Column Name	Field Type	Description	Default value
*WORKCENTER_ID	TEXT(15)	Work center ID for this job step ID/part combination.	
WORKCENTER_DESC	TEXT(40)	A description of the workcenter defined in WORKCENTER_ID.	
UNITS	NUMBER(DOUBLE)	The number of identical machines or	

		resources in the workcenter defined in Workcenter_ID.	
UTILIZATION	NUMBER(DOUBLE)	The utilization of the workcenter defined in Workcenter_ID. A value of 1 implies protective capacity to be left on non-drums to enable them to catch up after Murphy strikes. Valid values are between "0.0" and "1.0".	
CALENDAR_ID	TEXT(15)	The identifier of a calendar. A default calendar must always exist since a workcenter with no calendar is assumed to work with the default calendar.	
DUMMY_FLAG	TEXT(2)	Y indicates an infinite-capacity workcenter for which there is no need to generate a schedule. 0 Normal 1 Ignore 2 Outside processing operation 4 Final assembly workcenter	
WORKCENTER_FAMILY	TEXT(15)	A group of workcenters with similar capabilities.	
LABOR_MC_RATIO	NUMBER(DOUBLE)	The average number hours of labor required to run the workcenter for an hour.	
FORCED_QUEUE_TIME	NUMBER(DOUBLE)	The amount of time, in seconds, a job is forced to wait in front of a non-bottleneck work center. Applied during Symphony and Harmony Material Release. During Symphony, added on top of dynamic buffering. Uses a 24hour calendar.	
SETUP_TIME	NUMBER(DOUBLE)	Used as default when no routing times present (for modeling purpose only)	
RUN_TIME_PER_BATCH	NUMBER(DOUBLE)	Used as default when no routing times present (for modeling purpose only)	
IDLING_TIME_PER_BATCH	NUMBER(DOUBLE)	Used as default when no routing times present (for modeling purpose only)	
DRUM_NUMBER	NUMBER(DOUBLE)	Output field. The drum number if this workcenter is a drum; otherwise, 0 appears.	
OVERTIME_RATE	NUMBER(DOUBLE)	The average expense for one hour of overtime at the work center.	
MIN_BUFFER_TIME	NUMBER(DOUBLE)	Seconds. Queue time calculated using the default calendar. Used by THRU-PUT/VPI when you turn on flexible buffering mode. Calculates the earliest start times in THRU-PUT/VPI.	

TYPICAL_BUFFER_TIME	NUMBER(DOUBLE)	Seconds. Queue time calculated using the default calendar. Used by THRU-PUT/VPI when you turn on flexible buffering mode. Used to calculate Do Not Do Before dates.	
SETUP_PERCENTAGE	NUMBER(DOUBLE)	Percent; output by Synchronization engine. Used in CSW on the load to capacity charts. Written when the schedules are written.	
*LOCATION_ID	TEXT(15)	Plant ID when you installed THRU-PUT/VPI. Unique value across the internal supply chain.	
RESOURCE_TYPE	TEXT(2)	Defines primary or secondary resources. 0 Workcenter 1 Tool	
ATTRIBUTE1	TEXT(25)	When set to 1, used for scheduling tasks for the same order together (assuming this work center is also a drum)	
ATTRIBUTE2	TEXT(25)	Reserved	
ATTRIBUTE3	TEXT(25)	When set to 1, tasks on this drum will be scheduled by Earliest Start Time (assuming this work center is also a drum). Useful if this is an interactive drum and this drum is the downstream drum.	
ATTRIBUTE4	TEXT(25)	Reserved	
ATTRIBUTE5	TEXT(25)	Reserved	
UNITS1	NUMBER(DOUBLE)	Number of Units assigned to 1 st Shift when Shift calendar is used else not used	
UNITS2	NUMBER(DOUBLE)	Number of Units assigned to 2nd Shift when Shift calendar is used else not used	
UNITS3	NUMBER(DOUBLE)	Number of Units assigned to 3rd Shift when Shift calendar is used else not used	
DEPARTMENT	TEXT(15)	Department to which Workcenter belongs to.	

WOALLOC(I) TABLE:

All the component requirement to build an assembly work order. This list is mandatory for an already released assembly work order. If the assembly work order is firm planned, then allocation record is picked from standard BOM (JSBOM table).

Column Name	Field Type	Description	Default value
*WORK_ORDER_ID	TEXT(25)	Workorder ID	
*CHILD_PART_ID	TEXT(40)	Component part	
*SEQUENCE_NUMBER	NUMBER(DOUBLE)	Allocation Number	
QUANTITY_REQUIRED	NUMBER(DOUBLE)	How much quantity of component is required to make full Assembly work order quantity	
QUANTITY_ISSUED	NUMBER(DOUBLE)	How much quantity of component has been allocated to quantity to this Assembly work order	
*JOB_STEP_ID	NUMBER(DOUBLE)	If this inventory is WIP, represents the job step ID in which the WIP is found1 Raw materials QOH -2 FGI	
QTY_PER_PARENT	NUMBER(DOUBLE)	Deducted from Quantity Required. You can override by providing per parent quantity in this field	-1
*LOCATION_ID	TEXT(15)	Plant ID when you installed THRU-PUT/VPI. Unique value across the internal supply chain. Downloaded when data for more than one plant are downloaded.	

WOHEAD(I) TABLE:

This table contains all the released and firm planned work orders currently open or running in the production floor. Any work order that is finished or partial finished (Quantity Good > 0) is considered already received to On hand for Quantity Good and deducted from available quantity (more) from the work order.

Column Name	Field Type	Description	Default value
WORK_ORDER_ID	TEXT(25)	Workorder ID	
PART_ID	TEXT(40)	Unique identifier for this part in the supply chain.	
ORIGINAL_QUANTITY	NUMBER(DOUBLE)	Original Quantity	

QUANTITY_FINISHED	NUMBER(DOUBLE)	Quantity finished	
QUANTITY_SCRAPPED	NUMBER(DOUBLE)	Quantity scrapped	
WORK_ORDER_STATUS	TEXT(1)	Status of work order.	
RELEASE_DATE	DATE/TIME	The date of release	
FIRM_RELEASE	TEXT(1)	Y if yes else No	
LOCATION_ID	TEXT(15)	Plant ID when you installed THRU- PUT/VPI. Unique value across the internal supply chain. Downloaded when data for more than one plant are downloaded.	
RESCHEDULE_FLAG	NUMBER(DOUBLE)	Reschedule codes of XA	
DUE_DATE	DATE/TIME	When the assembly work order is due.	
WORKORDER_TYPE	TEXT(1)	Released or firm planned	
OFFSET	NUMBER(DOUBLE)	An Advanced Planner engine (VPI) parameter used to filter out exceptions for the firm orders the user has firm scheduled in the engine.	
ROUTE_ID	TEXT(15)	Route Identifier (Not Required)	
SALES_ORDER_ID	TEXT(15)	When work order is allocated to a specific customer order, Order_ID of the sales	
ORIG_WO_ID	TEXT(25)	Work order of the original order when a work order is split	
WO_YIELD	NUMBER(DOUBLE)	Work order specific Yield which overrides the Part Yield of of the item.	

WOROUTE(I) TABLE:

This contains all the operations that a work order goes thru before it is received to stock. Work order details helps to follow routings that are work order specific and distinct from standard routing. If you don't need the uniqueness, you may consider using WIP table instead.

Column Name	Field Type	Description	Default value

*WORK_ORDER_ID	TEXT(25)	Workorder ID	
*JOB_STEP_ID	NUMBER(DOUBLE)	If this inventory is WIP, represents the job step ID in which the WIP is found1 Raw materials QOH -2 FGI	
JOB_STEP_STATUS	TEXT(1)	The status of a job step's completion.	
WORKCENTER_ID	TEXT(15)	Workcenter for a particular job step.	
QUANTITY_GOOD	NUMBER(DOUBLE)	The number of pieces for which this job step has been successfully completed.	
QUANTITY_BAD	NUMBER(DOUBLE)	The number of pieces for which this job step has been unsuccessfully completed	
PART_ID	TEXT(40)	Unique identifier for this part in the supply chain	
BATCH_SIZE	NUMBER(DOUBLE)	The type of batch. Valid values are:	
		1 Piece operation, > 1 Foundry or oven operation.	
SETUP_TIME	NUMBER(DOUBLE)	The time, in seconds, required to change a specific machine, resource, workcenter, or line from making the last good piece of item A to the first good piece of item B.	
RUN_TIME_PER_BATCH	NUMBER(DOUBLE)	The time, in seconds, to run one batch of an item on a workcenter, excluding setup time.	
IDLING_TIME_PER_BATCH	NUMBER(DOUBLE)	The time, in seconds, during which the batch must wait after being processed at the current step and before being queued at the next step.	
YIELD	NUMBER(DOUBLE)	Used during purchasing as a factor to account for loss of material due to some error. Automatically adjusts the quantity of the purchase order based on how much is typically scrapped for this part, defined in Part_ID.	
FAMILY_ID	TEXT(15)	A mechanism to group operations with a common setup. The setup is saved if back-to-back operations scheduled on the drums have the same Family ID.	
JOB_STEP_DESC	TEXT(40)	Description of the operation.	
MINOR_FAMILY_ID	TEXT(15)	A group of operations with a common minor	

		setup within a major family.	
MINOR_SETUP_TIME	NUMBER(DOUBLE)	Time incurred when an operation follows a previous operation with the same Major_Family but different Minor_Family.	
CLEAN_UP_TIME	NUMBER(DOUBLE)	Time incurred while cleaning.	
MAX_LOT	NUMBER(DOUBLE)	Obsolete	
ROUTE_ID	TEXT(15)	The route to which this operation belongs.	
TOOL_ID	TEXT(15)	Secondary resource required at the operation.	
*LOCATION_ID	TEXT(15)	Plant ID when you installed THRU-PUT/VPI. Unique value across the internal supply chain. Downloaded when data for more than one plant are downloaded.	
LABOR_SETUP_TIME	NUMBER(DOUBLE)	The time it takes to do the set up for a given part operation. Time is in seconds. Useful for determining the labor load.	
LABOR_RUN_TIME_PER_BATCH	NUMBER(DOUBLE)	The time it takes to do complete one batch for a given part operation. Time is in seconds. Useful for determining the labor load.	
PREFERRED_UNIT	TEXT(25)	Any number between 0 and maximum number units on a given workcenter. Applicable only for drums. If this field is set, software will place the tasks for a particular operation on the specific unit of the workcenter.	
TRANSFER_SIZE	NUMBER(DOUBLE)	If this value is positive and is greater than or equal to Batch Size, then this number will be used in determining the overlap between the operations.	
ASSIGNED_UNITS	NUMBER(DOUBLE)	Number of units assigned to a workorder when there are multiple units in play.	

PART_PROCESS(I) TABLE:

This table supports engine selecting proper process (from primary and alternative), and to support user offloading via alternate processes.

Download option: 0 = Only current primary process (Default),

1 = All primary processes, 2 = All processes

Column Name	Field Type	Description	Default value
*PART_ID	TEXT(40)	Unique identifer for this part in the supply chain.	
*PART_REVISION	TEXT(6)	ERP Item Revision	
REVISION_START_DATE	DATE/TIME	Revision effective from date	
REVISION_END_DATE	DATE/TIME	Revision effective to date	
*ROUTE_ID	TEXT(15)	Sequence no of the item process	
DESCRIPTION	TEXT(40)	Process description (XA user supplies)	
*PRIMARY_PROCESS	TEXT(1)	Indicates if it is Primary Process or Alternative Process.	
		1-Primary / 0-Alternate	
PROCESS_START_DATE	DATE/TIME	Valid from date	
PROCESS_END_DATE	DATE/TIME	Valid to date	
ERP_ALTERNATE_BOM_ID	TEXT(10)	XA Alternate BOM ID.	
ERP_ROUTING_ID	TEXT(15)	XA Routing ID	
ERP_ROUTING_VERSION	TEXT(6)	XA Routing version.	
LOCATION_ID	TEXT(15)	Plant ID when you installed THRU-PUT/VPI. Unique value across the internal supply chain. Downloaded when data for more than one plant are downloaded.	

PARTALLOC(I) TABLE:

This table contains information on the allocation records for each hard pegged on hand qty.

Column Name	Field Type	Description	Default value
*PART_ID	TEXT(40)	Unique identifier for this part in the supply chain.	
ALLOC_QTY	NUMBER(DOUBLE)	Quantity for current lot of QOH.	
CUSTOMER_ORDER_ID	DATE/TIME	Indicates the Sales Order ID consuming this QOH lot.	
*ALLOC_REF_ID	TEXT(15)	Indicates the customer location of Sales Order consuming this QOH lot. During planning, the CUSTOMER_LOCATION_ID of Sales order is matched with ALLOC_REF_ID. Only sales orders from the same customer location will consume the Hard Allocated QOH.	
*LOCATION_ID	TEXT(15)	Plant ID when you installed THRU-PUT/VPI. Unique value across the internal supply chain. Downloaded when data for more than one plant are downloaded.	
BATCHLOT_ID	TEXT(25)	Contains the batch identifier and can be blank also.	
EXPIRY_DATE	DATE/TIME	Stores the date of expiration of the part QOH for the line.	
QA_HOLD	NUMBER(DOUBLE)	Indicates if the given lot is available for consumption or has been put on hold because of quality check. Can have a value of 0 or 1.	

INVENTORY(I) TABLE:

This table contains QTY_ON_HAND value for those parts which exists in Part table. The QTY_ON_HAND column is obsolete in PART table.

Column Name	Field Type	Description	Default value
*PART_ID	TEXT(40)	Unique identifier for this part in the supply chain.	
QTY_ON_HAND	NUMBER (DOUBLE)	The quantity on hand for the Parts.	
*LOCATION_ID	TEXT(15)	Plant ID when you installed THRU- PUT/VPI. Unique value across the internal supply chain. Downloaded when data for more than one plant are downloaded.	

Table Layout of Schedule Output Tables

Thru-Put/VPI writes on hand and work in process allocation (T_FROM_INV), work center operation schedules (T_TO_MAKE), Purchase order and PO requisition information(T_MATL_REQ), Bottle neck Schedules (BNSCHED) and work order schedule (T_INTERNAL_DEMAND). For easy reporting and association with the kitting, Thru-Put/VPI also writes the component Supply allocation in T_DEMAND_PEGGING, and component to final customer or forecast order allocation to T_DEMAND_MAPPING tables.

T_FROM_INV:

Contains the current inventory information; what is in stock and what is the location of work in process. Number of records to this table does not depend upon any config.ini parameters.

Column Name	Field Type	Description	Default value

INV_KEY			
	NUMBER (DOUBLE)	An internal key generated by the software to identify this inventory uniquely.	
(inventory key)			
FEEDING_MAKE_KEY	NUMBER (DOUBLE)	MAKE_KEY of the open work order operation job step along the woroute where this inventory is being consumed. If the part is finished is on hand this value will be –1. You will see this record in WOROUTE table with some quantity finished along a job step in the WOROUTE.	
FEEDING_DRUM_KEY (Not applicable to VPi and is always -1)	NUMBER (DOUBLE)	MAKE_KEY of the open work order drum operation job step along the route/woroute where this inventory is needed. Note the work order can be for itself or for its assembly (if the part is not lot sized).	
DEMAND_KEY	NUMBER (DOUBLE)	DEMAND_KEY of the work. You will find this demand key value in T_INTERNAL_DEMAND table. If the inventory is feeding directly to a final order (sales/forecast), you will find this key in SALES/FORECAST table with the same name.	
PART_ID	TEXT(40)	Part ID of the work order/PO.	
JOB_STEP_ID	NUMBER (DOUBLE)	Operation Job Step. He location where the invenory is sitting. If on hand then this value is negative: -1 for normal and -2 for raw materials/buy parts. If the work order is just released with all its component already allocated then this value is 0. Otherwise job step id in the work order route.	
QTY	NUMBER (DOUBLE)	Quantity of this inventory pegging.	
DDB_DATE Start date of the task	DATE/TIME	Start date of the task when this inventory is needed. It can be projected completion of the final customer order/forecast if directly fed to them. Or it can be start date of the work order feeding operation. If the date is 12/31/2075 then this inventory is never needed.	
WORKORDER_ID	TEXT(25)	Work order ID where this inventory is found. If the inventory is on hand, then this value is blank.	

WORKCENTER_ID	TEXT(15)	Work center ID or facility name where this inventory is found. Blank if on hand.	
PARENT_WORKCENTER_ID	TEXT(15)	Feeding Work center ID or facility name where this inventory is consumed. Blank if on hand and feeding to final sales/forecast order.	
LOCATION_ID	TEXT(15)	Warehouse or location ID of the manufacturing plant.	
ALLOC_REF_ID	TEXT(15)	Reference ID.	

T_TO_MAKE:

Contains MAKE information of individual operation starts on a work order and its other detailed information. For all open work orders, all operation starts are written to this table regardless of when the operation starts. How much data is written to this table for a suggested work order (RWO) depends upon config.ini parameter "NonDrumOutputHorizon". This parameter is a number in days from the current planning date until which all the operation starts need to be written if a planned work order (RWOxxx) needs to start. Even if one out all operation of a routing needs to be started, then all the operation for that work order are written to T_TO_MAKE table. Phantom parts and dumpy operations are not written to this table.

Column Name	Field Type	Description	Default value
MAKE_KEY	NUMBER (DOUBLE)	An internal key generated by the software to identify this job information uniquely.	
PARENT_MAKE_KEY	NUMBER (DOUBLE)	The T_TO_MAKE record this record feeds to next job step in sequence.	
FEEDING_DRUM_KEY (Not applicable to VPI and is always -1)	NUMBER (DOUBLE)	MAKE_KEY of the drum operation job step along the route/woroute where this part is needed. Note the work order can be for itself or for its assembly (if the part is not lotsized)	
DEMAND_KEY	NUMBER (DOUBLE)	DEMAND_KEY of the work order. You will find this demand key value in T_INTERNAL_DEMAND table.	
WORKORDER_ID	TEXT (25)	Work order ID where this inventory is found. If the inventory is on hand, then this value is blank.	

JOB_STEP_ID	NUMBER (DOUBLE)	Operation Job Step. He location where the invenory is sitting. If on hand then this value is negative: -1 for normal and -2 for raw materials/buy parts. If the work order is just released with all its component already allocated then this value is 0. Otherwise job step id in the work order route.	
RUN_TIME	NUMBER (DOUBLE)	Runtime for this order on this job step.	
QTY	NUMBER (DOUBLE)	Quantity of this task.	
DDB_DATE Start date of the task	DATE/TIME	Start date of the task when this inventory is needed. It can be projected completion of the final custom order/forecast if directly fed to them. Or it can be start date of the work order feeding operation. If the date is 12/31/2075 then this inventory is never needed.	
DDB_TIME Start time of the task	NUMBER (DOUBLE)	Start time of the task within the day in seconds from beginning of the day.	
WORKCENTER_ID	TEXT (15)	Work center ID or facility name where this inventory is found. Blank if on hand.	
BUFFER_TOTAL_HRS	NUMBER (DOUBLE)	Total buffers in hours planned for this job. In case of VPI, this value is up to final SALES/Forecast order. This value is computed from adding TYPICAL_BUFFER_TIME of facility in WKCTR table along the feeding chain + shipping buffer.	
BUFFER_REMAINING	NUMBER (DOUBLE)	Buffers in hours remaining for this job.	
BUFFER_TYPE	NUMBER (DOUBLE)	Type the feeding buffer whether it is shipping buffer or workcenter buffer.	
BUFFER_FED	TEXT (15)	Feeding Work center ID or facility name associated with the feeding buffer. Blank if feeding the final order.	
MAKE_TYPE	NUMBER (DOUBLE)	1 Material Release step 0 Not a Material Release step	

LOCATION_ID	TEXT (15)	Warehouse or location ID of the manufacturing plant.	
TOOL_ID	TEXT (15)	Secondary resource required at the operation.	
PART_ID	TEXT (40)	Part or Item number	
ROUTE_ID	TEXT (15)	The route on which this work order is to be made. This information can be used to tell THRU-PUT/VPI to pick up the routing standards information for this operation from the Routing master.	
DELAY_TIME	NUMBER (DOUBLE)	Used in Visual Planner to fix the start time of an operation on a facility or workcenter	
WORKCENTER_UNIT	NUMBER (DOUBLE)	Unit number of a machine in the workcenter.	
SETUP_TIME	NUMBER (DOUBLE)	For future use.	
LDB_DATE	DATE/TIME	Latest due date for this operation	
LDB_TIME	NUMBER (DOUBLE)	Latest due time for this operation	
LABOR_RUN_TIME	NUMBER (DOUBLE)	Total run time labor required to process this task	
LABOR_SETUP_TIME	NUMBER (DOUBLE)	Labor time required to set up this operation.	

$T_MATL_REQ:$

Contains Material Requirement information regarding where the raw material are required and where they are consumed (pegging information). Number of records to this table does not depend upon any config.ini parameters.

Column Name	Field Type	Description	Default value
	NUMBER (DOUBLE)	MAKE_KEY of the feeding operation job step You will see this record in T_TO_MAKE with this MAKE_KEY	

Column Name	Field Type	Description	Default value

FEEDING_MAKE_KEY			
T EEDING_NAME_NET	NUMBER (DOUBLE)	MAKE_KEY of the feeding operation job step You will see this record in T_TO_MAKE with this MAKE_KEY	
FEEDING_DRUM_KEY	NUMBER (DOUBLE)		
MR_KEY	NUMBER (DOUBLE)	MAKE_KEY of the drum operation job step along the route/woroute where this part is needed.	
PO_KEY	NUMBER (DOUBLE)	The DEMAND_KEY of the purchase order. If the PO is open, this value will match with DEMAND_KEY in PURCHASE table. If PO is planned, this will match with DEMAND_KEY in the T_PLANNED_PO table.	
DEMAND_KEY	NUMBER (DOUBLE)	DEMAND_KEY of the work order . You will find this demand_key value in T_INTERNAL_DEMAND table. If PO is feeding directly to a final Sales/Forecast order, this value will match with DEMAND_KEY in SALES/FORECAST table.	
QTY	NUMBER (DOUBLE)	Quantity of this task	
PO_REQ_DATE	DATE/TIME	Expected Dock Arrival date of the PO.	
PO_MOD_DATE	DATE/TIME	Modified PO Dock date. Date when PO is actually needed as per the scheduling requirement. Set to 12/31/2075, if there is no requirement and PO needed to be cancelled.	
LOCATION_ID	TEXT(15)	Warehouse or location ID of the manufacturing plant	
PART_ID	TEXT(40)	Part/Item Number	
PO_FLAG	TEXT(20)	Flag of the Purchase Order.	
PART_TYPE	NUMBER (DOUBLE)	Item type, Raw (1) or subcontract(3) or Make 0	
RAW_MATERIAL_TYPE	NUMBER (DOUBLE)	Type of raw material used.	
SALES_ORDER_ID	TEXT(15)	Final ORDER_ID of the customer order or Forecast where this will be consumed. If there are multiple orders, the Final order with first requirement will be shown. Blank if no final	

demand for this material requirement.

T_INTERNAL_DEMAND:

This table contains the information about all work orders for lot-sized parts (always true in VPi) and hard pegged work orders. This will also contain the purchase order details provided the part lot sized and is a consigned part or a make part.

If a part is not lot sized, then work orders due dates will not drive the schedules. Schedule will be driven by the parent assembly work order (if the parent part is lot sized) or the final independent demand (sales/forecast). If you set the parameter DeclareAllPartsAsMPS=1 in the config.ini file (this parameter may be obsolete in future versions), then all parts are treated like a lot sized part with lot for lot.

In order to declare a part as lot sized, you need to set one or more of the following parameters to a value greater than 0 (in the PART download/table):

AGGREGATION_PERIOD

MIN LOT

PURCHASE_MULTIPLE_OF

There is another way you can still force writing work order to the T_INTERNAL_DEMAND irrespective whether it is a lot sized part or not. In config.ini, add a configuration parameter in the [System] section called WriteNonLotsizedWOToDB=1

Column Name	Field Type	Description	Default value
DEMAND_KEY	NUMBER (DOUBLE)	An internal key generated by the software to identify this work order uniquely. This is sometimes referred to as internal_demand_key.	
PART_ID	TEXT(40)	Part ID of the work order/PO.	
WORKORDER_ID	TEXT(25)	Work order ID or the purchase order id.	
START_DATE	DATE	The start date of the work order. This date will be equal to DDB_DATE for the first jobstep of the work order. Provided	
		DDBEqualsToStartTime=1 in config.ini.	

START_TIME	NUMBER (DOUBLE)	Start time of the day in seconds.	
DUE_DATE	DATE	The Completion date of the work order. This date will be generally one day prior to the start of the parent work order. You can set to same date by setting OverlapParentChildWOID=1 in config.ini	
DUE_TIME	NUMBER (DOUBLE)	End time of the Work order in seconds.	
QTY	NUMBER (DOUBLE)	Work order Quantity Open and scheduled.	
POSEQ	NUMBER (DOUBLE)	A number starting from 30001 to be used with XA integration only. Automatically generated by the software.	
RESCHED_FLAG	NUMBER (DOUBLE)	The workorder (order) reschedule code. One of the following: 0 Default to item reschedule code 1 No automatic rescheduling 2 Reschedule out only 3 Reschedule in only 4 Reschedule both out and in 5 No rescheduling; no exception messages; schedule planned orders as required 6 Defer exception only but schedule others earlier.	
BOM_LEVEL	NUMBER (DOUBLE)		
INTERNAL_DEMAND_TYPE	NUMBER (DOUBLE)		
EST_SOURCE	TEXT (127)		
LOCATION_ID	TEXT (15)		

T_DEMAND_PEGGING:

This table contains the information about the one level source of demand for a work order. This table will have data only when T_INTERNAL_DEMAND data has the data. Basically, the record will give information on the assembly work order who will be using the work order specified in the T_INTERNAL_DEMAND table.

Column Name	Field Type	Description	Default value
UNIQUE_KEY	NUMBER (DOUBLE)	A unique number generated by the software to distinguish the work order. Normally, this key will not be much use. But in cases where a same work order is feeding same assembly work orders in two different operations, then UNIQUE_KEY will distinguish the two records.	
CHILD_KEY	NUMBER (DOUBLE)	The internal_demand_key of the child work order.	
PARENT_KEY	NUMBER (DOUBLE)	The internal_demand_key of the parent work order. If the child work order is not pegged then this value will be -1.	
PARENT_MAKE_KEY	NUMBER (DOUBLE)	The MAKE_KEY of the parent work order job-step where the component is needed. This will match with MAKE_KEY in T_TO_MAKE table. If the child work order is not pegged then this value will be -1.	
QTY	NUMBER (DOUBLE)	Quantity of the child work order pegged to the parent work order.	
REQ_DATE	DATE/TIME	Component Required date	

T_DEMAND_MAPPING:

This table contains the information about the end level source of demand for any lot sized work order. This table will have data only when T_INTERNAL_DEMAND data has the data. Basically, the record will give information on the work order and for which independent demand the work order is being used.

Column Name	Field Type	Description	Default value

INTERNAL_DEMAND_KEY	NUMBER (DOUBLE)	DEMAND_KEY of the work order specified in T_INTERNAL_DEMAND table.	
DEMAND_KEY	NUMBER (DOUBLE)	The demand_key of the SALES or FORECAST record, which will consume this work order. You can join this table to T_INTERNAL_DEMAND table on one side and V_DEMAND on the other side to get the complete details of the work.	
PEGGED_QTY	NUMBER (DOUBLE)	Quantity of the Component work order Pegegd to the final Customer or forecast Demand	

T_PLANNED_PO TABLE:

The planned purchase orders generated by THRU-PUT/VPI. Every entry in the T_PLANNED_PO is pegged to multiple entries in the T_MATL_REQ table.

Column Name	Field Type	Description	Default value
PO_KEY	NUMBER (DOUBLE)	Purchase order key. Found in the T_PLANNED_PO or	
		PURCHASE table.	
PART_ID	TEXT (40)	Unique identifier for this part in The supply chain.	
QTY	NUMBER (DOUBLE)	PO quantity. The lot quantity	
PO_REQ_DATE	DATE/TIME	Date the PO is required.	
BUYER_ACTION_DATE	DATE/TIME	Date the buyer is expected to Take an action. PO_REQ_DATE - MRP_LEAD_TIME - DOCK_TO_STOCK_TIME - BUYER_LEAD_TIME.	
MATL_REQ_DATE	DATE/TIME	Date the Material is required.	
LOCATION_ID	TEXT (15)	Plant ID when you installed THRU-PUT/VPI. Unique value across the Internal supply chain. Downloaded when data for more Than one plant are downloaded.	
VENDOR_ID	TEXT (15)	The vendor in the SC_VENDOR_MASTER table	

		For which this rule applies.	
VENDOR_LOCATION_ID	TEXT (15)	The specific plant for the vendor For whom this rule applies.	
ORDER_ID	TEXT (15)	Purchase Order ID.	
SALES_ORDER_ID	TEXT (15)	Indicates end Customer ORDER_ID. User can optionally download the end customer ORDER_ID in this field if the MO/PO is hard-pegged to a particular SALES order. Please note that when you do hard-peg a MO/PO, the part needs to be non-lotsized (no order modifiers/aggregation etc) so are it's parent items reaching until the final product	

LOADP TABLE:

This table contains information of Work center and Forecasting information (how many units are going to release).

Column Name	Field Type	Description	Default value
WC_NUM	TEXT (15)	Work center Number.	
UNITS	NUMBER (DOUBLE)	The number of identical machines or resources in the work center defined in Workcenter_ID.	
BUCKET_START	DATE/TIME	Start date of bucket (Work is started for that slot)	
BUCKET_END	DATE/TIME	End date of bucket (Work is ended for that slot)	
BUCKET_LOAD	NUMBER (DOUBLE)	Total load on a work center.	
BUCKET_LABOR_LOAD	NUMBER (DOUBLE)	Total capacity of a work center to produce output.	
AVAIL_TIME	NUMBER (DOUBLE)	Total load time on a work center to forecast units.	

	NA TABLE	Type 0:	
BUCKET_TYPE	NUMBER (DOUBLE)	1st bucket = past due bucket	
		2nd – 10th bucket = daily buckets	
		11th – 13th bucket = weekly buckets	
		14th – 15th bucket = monthly buckets	
		Type 1:	
		1st bucket = past due bucket	
		2nd – 7th bucket = weekly buckets	
		8th – 15th bucket = monthly buckets	
LOCATION_ID	TEXT (15)	Plant ID when you installed THRU-PUT/VPI. Unique value across the Internal supply chain. Downloaded when data for more	
		Than one plant are downloaded. A description of the work center	
WC_DESC	TEXT (40)	defined in WORKCENTER_ID.	

SUPPLY_DEMAND TABLE:

This table contains information of Work Load divided into Bucket Types and bucket types GRS, NET, FRM, PLN and POH from 0 to 14.

Column Name	Field Type	Description	Default value
TYPE_ID	TEXT (15)	Type Id defines two type of summary for buckets: Type 0 - short summary Type 1 - Long Summary	

PART_ID	TEXT (40)	Unique identifier for this part in The supply chain.
PART_ON_HAND	NUMBER (DOUBLE)	Total quantity of raw material is available in hand, for which the part is going to forecast.
LOCATION_ID	TEXT (15)	Plant ID when you installed THRU-PUT/VPI. Unique value across the Internal supply chain. Downloaded when data for more Than one plant are downloaded.
TOTAL_QOH	NUMBER (DOUBLE)	Total quantity which is required for forecasting is available on Hand at work center
QOH_LOC	TEXT (60)	Quantity on Hand is available at Location for producing required units.
BUCKET0_GRS	NUMBER (DOUBLE)	Type 0: past due Gross Qty for bucket. Type 1: past due Gross Qty for bucket.
BUCKET0_NET	NUMBER (DOUBLE)	Type 0: Past Due Net Qty for bucket. Type 1: Past Due Net Qty for bucket.
BUCKET0_FRM	NUMBER (DOUBLE)	Type 0: Past due Firm Qty for bucket. Type 1: Past due Firm Qty for bucket.
BUCKET0_PLN	NUMBER (DOUBLE)	Type 0: past due Planned Qty for bucket. Type 1: past due Planned Qty for bucket.
BUCKET0_POH	NUMBER (DOUBLE)	Type 0: Past due Projected On Hand Qty for bucket. Type 1: Past due Projected On Hand Qty for bucket.
BUCKET1_GRS	NUMBER (DOUBLE)	Type 0: Gross Qty for 1 st daily bucket. Type 1: Gross Qty for 1 st weekly bucket.

BUCKET1_NET	NUMBER (DOUBLE)	Tyoe 0: Net Qty for 1 st daily bucket. Type 1: Net Qty for 1 st weekly bucket.	
BUCKET1_FRM	NUMBER (DOUBLE)	Type 0: Firm Qty for 1 st daily bucket. Type 1: Firm Qty for 1 st weekly bucket.	
BUCKET1_PLN	NUMBER (DOUBLE)	Type 0: Planned Qty for 1 st daily bucket. Type 1: Planned Qty for 1 st weekly bucket.	
BUCKET1_POH	NUMBER (DOUBLE)	Type 0: Projected On Hand Qty for 1 st daily bucket. Type 1: Projected On Hand Qty for 1 st weekly bucket.	
BUCKET2_GRS	NUMBER (DOUBLE)	Tyoe 0: Gross Qty for 2 nd daily bucket. Type 1: Gross Qty for 2 nd weekly bucket.	
BUCKET2_NET	NUMBER (DOUBLE)	Type 0: Net Qty for 2 nd daily bucket. Type 1: Net Qty for 2 nd weekly bucket.	
BUCKET2_FRM	NUMBER (DOUBLE)	Type 0: Firm Qty for 2 nd daily bucket. Type 1: Firm Qty for 2 nd weekly bucket.	
BUCKET2_PLN	NUMBER (DOUBLE)	Type 0: Planned Qty for 2nd daily bucket. Type 1: Planned Qty for 2nd weekly bucket.	

BUCKET2_POH	NUMBER (DOUBLE)	Type 0: Projected On Hand Qty for 2 nd daily bucket. Type 1: Projected On Hand Qty for 2 nd weekly bucket.	
BUCKET3_GRS	NUMBER (DOUBLE)	Type 0: Gross Qty for 3 rd daily bucket. Type 1: Gross Qty for 3 rd weekly bucket.	
BUCKET3_NET	NUMBER (DOUBLE)	Type 0: Net Qty for 3 rd daily bucket. Type 1: Net Qty for 3 rd weekly bucket.	
BUCKET3_FRM	NUMBER (DOUBLE)	Type 0: Firm Qty for 3 rd daily bucket. Type 1: Firm Qty for 3 rd weekly bucket.	
BUCKET3_PLN	NUMBER (DOUBLE)	Type 0: Planned Qty for 3 rd daily bucket. Type 1: Planned Qty for 3 rd weekly bucket.	
вискетз_рон	NUMBER (DOUBLE)	Type 0: Projected On Hand Qty for 3 rd daily bucket. Type 1: Projected On Hand Qty for 3 rd weekly bucket.	
BUCKET4_GRS	NUMBER (DOUBLE)	Type 0: Gross Qty for 4 th daily bucket. Type 1; Gross Qty for 4 th weekly bucket.	
BUCKET4_NET	NUMBER (DOUBLE)	Type 1: Net Qty for 4 th daily bucket. Type 1: Net Qty for 4 th weekly bucket.	
BUCKET4_FRM	NUMBER (DOUBLE)	Type 0: Firm Qty for 4 th daily bucket. Type 1:	

		Firm Qty for 4 th weekly bucket.	
BUCKET4_PLN	NUMBER (DOUBLE)	Type 0: Planned Qty for 4 th daily bucket. Type 1: Planned Qty for 4 th weekly bucket.	
BUCKET4_POH	NUMBER (DOUBLE)	Type 0: Projected On Hand Qty for 4 th daily bucket. Type 1: Projected On Hand Qty for 4 th weekly bucket.	
BUCKET5_GRS	NUMBER (DOUBLE)	Type 0: Gross Qty for 5 th daily bucket. Type 1: Gross Qty for 5 th weekly bucket.	
BUCKET5_NET	NUMBER (DOUBLE)	Type 0: Net Qty for 5 th daily bucket. Type 1: Net Qty for 5 th weekly bucket.	
BUCKET5_FRM	NUMBER (DOUBLE)	Type 0: Firm Qty for 5 th daily bucket. Type 1: Firm Qty for 5 th weekly bucket.	
BUCKET5_PLN	NUMBER (DOUBLE)	Type 0: Planned Qty for 5 th daily bucket. Type 1: Planned Qty for 5 th weekly bucket.	
BUCKET5_POH	NUMBER (DOUBLE)	Type 0: Projected On Hand Qty for 5 th daily bucket. Type 1: Projected On Hand Qty for 5 th weekly bucket.	
BUCKET6_GRS	NUMBER (DOUBLE)	Type 0: Gross Qty for 6 th daily bucket. Type 1: Gross Qty for 6 th weekly bucket.	

	1		
BUCKET6_NET	NUMBER (DOUBLE)	Type 0: Net Qty for 6 th daily bucket. Type 1: Net Qty for 6 th weekly bucket.	
BUCKET6_FRM	NUMBER (DOUBLE)	Type 0: Firm Qty for 6 th daily bucket. Type 1: Firm Qty for 6 th weekly bucket.	
BUCKET6_PLN	NUMBER (DOUBLE)	Type 0: Planned Qty for 6 th daily bucket. Type 1: Planned Qty for 6 th weekly bucket.	
BUCKET6_POH	NUMBER (DOUBLE)	Type 0: Projected On Hand Qty for 6 th daily bucket. Type 1: Projected On Hand Qty for 6 th weekly bucket.	
BUCKET7_GRS	NUMBER (DOUBLE)	Type 0: Gross Qty for 7 th daily bucket. Type 1: Gross Qty for 7 th monthly bucket.	
BUCKET7_NET	NUMBER (DOUBLE)	Type 0: Net Qty for 7 th daily bucket. Type 1: Net Qty for 7 th monthly bucket.	
BUCKET7_FRM	NUMBER (DOUBLE)	Type 0: Firm Qty for 7 th daily bucket. Type 1: Firm Qty for 7 th monthly bucket.	
BUCKET7_PLN	NUMBER (DOUBLE)	Type 0: Planned Qty for 7 th daily bucket. Type 1: Planned Qty for 7 th monthly bucket.	

вискет7_рон	NUMBER (DOUBLE)	Type 0: Projected On Hand Qty for 7 th daily bucket. Type 1: Projected On Hand Qty for 7 th monthly bucket.	
BUCKET8_GRS	NUMBER (DOUBLE)	Type 0: Gross Qty for 8 th daily bucket. Type 1: Gross Qty for 8 th monthly bucket.	
BUCKET8_NET	NUMBER (DOUBLE)	Type 0: Net Qty for 8 th daily bucket. Type 1: Net Qty for 8 th monthly bucket.	
BUCKET8_FRM	NUMBER (DOUBLE)	Type 0: Firm Qty for 8 th daily bucket. Type 1: Firm Qty for 8 th monthly bucket.	
BUCKET8_PLN	NUMBER (DOUBLE)	Type 0: Planned Qty for 8 th daily bucket. Type 1: Planned Qty for 8 th monthly bucket.	
вискетя_рон	NUMBER (DOUBLE)	Type 0: Projected On Hand Qty for 8 th daily bucket. Type 1: Projected On Hand Qty for 8 th monthly bucket.	
BUCKET9_GRS	NUMBER (DOUBLE)	Type 0: Gross Qty for 9 th daily bucket. Type 1: Gross Qty for 9 th monthly bucket.	
BUCKET9_NET	NUMBER (DOUBLE)	Type 0: Net Qty for 9 th daily bucket. Type 1: Net Qty for 9 th monthly bucket.	

BUCKET9_FRM	NUMBER (DOUBLE)	Type 0: Firm Qty for 9 th daily bucket. Type 1: Firm Qty for 9 th monthly bucket.	
BUCKET9_PLN	NUMBER (DOUBLE)	Type 0: Planned Qty for 9 th daily bucket. Type 1: Planned Qty for 9 th monthly bucket.	
вискет9_РОН	NUMBER (DOUBLE)	Type 0: Projected On Hand Qty for 9 th daily bucket. Type 1: Projected On Hand Qty for 9 th daily bucket.	
BUCKET10_GRS	NUMBER (DOUBLE)	Type 0: Gross Qty for 10 th weekly bucket. Type 1: Gross Qty for 10 th monthly bucket.	
BUCKET10_NET	NUMBER (DOUBLE)	Type 0: Net Qty for 10 th weekly bucket. Type 1: Net Qty for 10 th monthly bucket.	
BUCKET10_FRM	NUMBER (DOUBLE)	Type 0: Firm Qty for 10 th weekly bucket. Type 1: Firm Qty for 10 th monthly bucket.	
BUCKET10_PLN	NUMBER (DOUBLE)	Type 0: Planned Qty for 10 th weekly bucket.	

		Type 1:	
		Planned Qty for 10 th monthly bucket.	
BUCKET10_POH	NUMBER (DOUBLE)	Type 0: Projected On Hand Qty for 10 th weekly bucket. Type 1: Projected On Hand Qty for 10 th monthly bucket.	
BUCKET11_GRS	NUMBER (DOUBLE)	Type 0: Gross Qty for 11 th weekly bucket. Type 1: Gross Qty for 11 th monthly bucket.	
BUCKET11_NET	NUMBER (DOUBLE)	Type 0: Net Qty for 11 th weekly bucket. Type 1: Net Qty for 11 th monthly bucket.	
BUCKET11_FRM	NUMBER (DOUBLE)	Type 0: Firm Qty for 11 th weekly bucket. Type 1: Firm Qty for 11 th monthly bucket.	
BUCKET11_PLN	NUMBER (DOUBLE)	Type 0: Planned Qty for 11 th weekly bucket. Type 1: Planned Qty for 11 th monthly bucket.	
BUCKET11_POH	NUMBER (DOUBLE)	Type 0: Projected On Hand Qty for 11 th weekly bucket. Type 1: Projected On Hand Qty for 11 th monthly bucket.	
BUCKET12_GRS	NUMBER (DOUBLE)	Type 0: Gross Qty for 12 th weekly bucket. Type 1: Gross Qty for 12 th monthly bucket.	
BUCKET12_NET	NUMBER (DOUBLE)	Type 0: Net Qty for 12 th weekly bucket. Type 1: Net Qty for 12 th monthly bucket.	

BUCKET12_FRM	NUMBER (DOUBLE)	Type 0: Firm Qty for 12 th weekly bucket. Type 1: Firm Qty for 12 th monthly bucket.	
BUCKET12_PLN	NUMBER (DOUBLE)	Type 0: Planned Qty for 12 th weekly bucket. Type 1: Planned Qty for 12 th monthly bucket.	
BUCKET12_POH	NUMBER (DOUBLE)	Type 0: Projected On Hand Qty for 12 th weekly bucket. Type 1: Projected On Hand Qty for 12 th monthly bucket.	
BUCKET13_GRS	NUMBER (DOUBLE)	Type 0: Gross Qty for 13 th monthly bucket. Type 1: Gross Qty for 13 th monthly bucket. Type 0:	
BUCKET13_NET	NUMBER (DOUBLE)	Net Qty for 13 th monthly bucket. Type 1: Net Qty for 13 th monthly bucket.	
BUCKET13_FRM	NUMBER (DOUBLE)	Type 0: Firm Qty for 13 th monthly bucket. Type 1: Firm Qty for 13 th monthly bucket.	
BUCKET13_PLN	NUMBER (DOUBLE)	Type 0: Planned Qty for 13 th monthly bucket. Type 1: Planned Qty for 13 th monthly bucket.	
BUCKET13_POH	NUMBER (DOUBLE)	Type 0: Projected On Hand Qty for 13 th monthly bucket. Type 1: Projected On Hand Qty for 13 th monthly bucket.	

BUCKET14_GRS	NUMBER (DOUBLE)	Type 0: Gross Qty for 14 th monthly bucket. Type 1: Gross Qty for 14 th monthly bucket.
BUCKET14_NET	NUMBER (DOUBLE)	Type 0: Net Qty for 14 th monthly bucket. Type 1: Net Qty for 14 th monthly bucket.
BUCKET14_FRM	NUMBER (DOUBLE)	Type 0: Firm Qty for 14 th monthly bucket. Type 1: Firm Qty for 14 th monthly bucket.
BUCKET14_PLN	NUMBER (DOUBLE)	Type 0: Planned Qty for 14 th monthly bucket. Type 1: Planned Qty for 14 th monthly bucket.
BUCKET14_POH	NUMBER (DOUBLE)	Type 0: Projected On Hand Qty for 14 th monthly bucket. Type 1: Projected On Hand Qty for 14 th monthly bucket.

SUPPLY_DEMAND_COLS TABLE:

This Table Contains Information of Headers for Bucket Types, and headers from 0 to 14 to capture daily, weekly and Monthly buckets.

Column Name	Field Type	Description	Default value
TYPE_ID	TEXT (15)	Type 0: Short summary	

		Type 1: Long summary
HEADER0	TEXT (20)	Type 0:
		Past due Date information for bucket.
		Type 1:
		Past due Date information for bucket .
HEADER1	TEXT (20)	Type 0: Date information for 1 st daily bucket.
		Type 1:
		Date information for 1 st weekly bucket.
HEADER2	TEXT (20)	Type 0:
		Date information for 2 nd daily bucket.
		Type 1: Date information for 2 nd weekly bucket.
HEADER3	TEXT (20)	Type 0: Date information for 3 rd daily bucket.
		Type 1:
		Date information for 3 rd weekly bucket.
HEADER4	TEXT (20)	Type 0: Date information for 4 th daily bucket.
		Type 1:
		Date information for 4th weekly bucket.
HEADER5	TEXT (20)	Type 0:
		Date information for 5th daily bucket.
		Type 1:
		Date information for 5 th weekly bucket.
HEADER6	TEXT (20)	Type 0: Date information for 6 th daily bucket.
		Date information for 6 daily ducket.

		Type 1:	
		Date information for 6 th weekly bucket.	
HEADER7	TEXT (20)	Type 0: Date information for 7 th daily bucket.	
		Type 1:	
		Date information for 7 th monthly bucket.	
HEADER8	TEXT (20)	Type 0: Date information for 8 th daily bucket.	
		Type 1:	
		Date information for 8 th monthly bucket.	
HEADER9	TEXT (20)	Type 0: Date information for 9 th daily bucket.	
		Type 1:	
		Date information for 9 th monthly bucket.	
HEADER10	TEXT (20)	Type 0: Date information for 10 th weekly bucket.	
		Type 1:	
		Date information for 10 th monthly bucket.	
HEADER11	TEXT (20)	Type 0: Date information for 1 ^{1th} weekly bucket.	
		Type 1:	
		Date information for 11 th monthly bucket.	
HEADER12	TEXT (20)	Type 0: Date information for 12 ^{1th} weekly bucket.	
		Type 1:	
		Date information for 12 th monthly bucket.	
HEADER13	TEXT (20)	Type 0: Date information for 13 ^{3th} monthly bucket.	
		Type 1:	

		Date information for 13 th monthly bucket.	
HEADER14	TEXT (20)	Type 0: Date information for 14 ^{3th} monthly bucket. Type 1:	
		Date information for 14 th monthly bucket.	

T_PLANNED_WOS TABLE:

Column Name	Field Type	Description	Default value
RES_WORKORDER_ID	TEXT (25)	Released Work order ID.	
PART_ID	TEXT (40)	Unique identifier for this part in The supply chain.	
QTY	NUMBER (DOUBLE)	Pieces.	
ROUTE_ID	TEXT (15)	The route to which this operation belongs. THRU-PUT/VPI uses the Primary_Route_ID from the Part Master file, if specified, to generate additional material releases.	
LOCATION_ID	TEXT (15)	Plant ID when you installed THRU-PUT/VPI. Unique value across the Internal supply chain. Downloaded when data for more Than one plant are downloaded.	
CAN_RELEASE	NUMBER (DOUBLE)		
CAN_RELEASE_QTY	NUMBER (DOUBLE)		
SALES_ORDER_ID	TEXT (15)		

T_REPLENISH_DEMAND TABLE - Not applicable to VPi and applies to Thru-Put only

This table gets populated only when you use Kanban planning for one or more items. This table contains all true demands for the replenish parts without taking into consideration the min max values of the replenish parts. This table structure is same as T_INTERNAL_DEMAND table.

Column descriptions

Column Name	Field Type	Description	Default value
*DEMAND_KEY	NUMBER (DOUBLE)	An internal key generated by the software to identify this work order uniquely. This is sometimes referred to as internal_demand_key.	
PART_ID	TEXT(40)	KanBan Part or KanBan Item Number	
WORKORDER_ID	TEXT (15)	Work order ID for the Kanban item.	
START_DATE	DATE	Release date or start date of the work order	
START_TIME	NUMBER (INTEGER)	Start time in Seconds. If using shift calendar, then represent the actual time of the day in seconds.	
DUE_DATE	DATE	End date or the due date of the work order	
DUE_TIME	NUMBER	End time of the work order in Seconds. If using shift calendar, then represent the actual time of the day in seconds.	
QTY	NUMBER (DOUBLE)	Work order Quantity (Open Quantity)	
PO_SEQ	NUMBER (DOUBLE)	Demand Key of the parent supply where the KaanBan work order is consumed or pegged. Can be drum supply, internal demand or an independent demand	