

Retek® 10.2 Integration Bus



Integration Guide Enterprise Setup



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- Functional and technical description of the problem (include business impact).
- Detailed step by step instructions to recreate.
- Exact error message received.
- Screen shots of each step you take.

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Chapter 1 – Introduction

Retek 10 Integration Bus setup involves the following areas:

- Seed data
- Enterprise configurations

The following chapters contain details on those areas.

Chapter 2 – Seed data

After installing RIB components for use with version 10 of RMS, RCOM, and RDM, complete the initial population of reference data (also called “seed data”.) to those applications. Populate the data using scripts written in the C programming language. There is at least one script for each functional area. This section lists the functional areas for which you seed data, the applications that require seeded data, a brief description of the functional area, and the name of the script(s).

Address types – RMS, RDM

RMS and RDM share address types that are used within the company. Common address types are business, postal, orders, returns, invoices, and remittance. The script name is: `retек10addtype.sql`

Carriers – RCOM, RDM

Carriers include the companies that transport merchandise to the customer. The script name for carriers is: `retек10carrier.sql`.

Carrier service types – RCOM, RDM

Carrier types may include ground transportation, ‘next day’ or overnight delivery, and so on. The script name for carrier services is: `retек10carrierservicetypes.sql`.

Carrier services – RCOM, RDM

Carrier services are combinations of carriers and carrier service types (also called “ship method”). The script name for carrier services is: `retек10carrierservice.sql`.

Channel types – RMS, RCOM

The client defines channels to track merchandised transaction data. Common channels include ‘catalog,’ ‘Web store,’ or (brick and mortar) ‘store.’ A channel type is defined as up to a 6-character value in RMS. The script name is: `retек10channeltype.sql`.

Country codes – RMS, RCOM, RDM

Country codes are unique identifiers in RMS and may contain up to three (3) characters. Note that if you run Retek Trade Management with RMS, you must use country codes that are two (2) characters. The script name is: `retек10countries.sql`.

Currency codes – RMS, RCOM, RDM

Currency codes are unique identifiers RMS. Currency codes may contain up to three (3) characters. The script name is: `retек10currencies.sql`.

Differentiator types – RMS, RCOM

Differentiators augment an item level structure by allowing you to define more detailed characteristics of an item. Examples of diffs are colors, sizes, flavors, and patterns. Diff types may contain up to six (6) characters. The script name is: `rettek10difftype.sql`.

Return reason – RMS, RCOM

Values assigned to return reasons are passed from RMS. Common valid values in RMS are:

- Q - QC Failed
- U - Unavailable Inventory

Other values may be defined and shared. Return reasons may include as many as six (6) characters. The script name is: `rettek10retreason.sql`.

Reason Codes - RMS, RDM

Reason codes are used to categorize types of / reasons for variances in inventory. RDM populates this with `base_reason_codes.sql`.

States – RMS, RDM

RMS stores codes for each U.S. state. Each state code can be three (3) characters. The script name is: `rettek10states.sql`.

Tender Type IDs - RMS/ReSA, RCOM

Tender type IDs represent the specific tender within a given tender type. Examples of tender types are cash, checks, and credit cards. IDs within the cash type could be U.S. dollars or Canadian dollars. Within a credit card type, one would find IDs for Visa, MasterCard, American Express, etc. `rettek10postendertypeids.sql`

Unit of measure – RMS, RCOM, RDM

There are two units of measurement (UOM): standard UOM and selling UOM. Clients typically order, hold, and value using the standard UOM. The selling UOM is used to price merchandise to be sold in smaller units. For example, meat may be purchased, stocked, and valued for accounting purposes by the case. However, it may be sold by the pound or kilogram. Because UOMs need to be converted from standard to selling, or vice versa, conversion factors for classes of UOMs are used.

There are scripts for both UOMs themselves and conversions:

- **rettek10uom.sql** - RMS, RDM, RCOM
- **rettek10uomconv1.sql** - RMS, RDM, RCOM
- **rettek10uomconv2.sql** - RMS, RDM, RCOM

WIP codes - RDM

Work in process (WIP) codes are applied to containers, automatically or manually, in order to direct merchandise to locations where value added services can be performed. WIP codes must be defined and sequentially ordered, if necessary. You can also indicate which windows a user must access in order to process the WIP codes. `base_wip_codes.sql`.

Chapter 3 – Enterprise configurations

Distribution numbers

A distribution number (or ‘Distro’ number) is a unique identifier of a distribution order that indicates the type of distribution. RDM provides distro numbers when stock order status messages are published to the RIB.

Example:

RMS publishes the stock order message that instructs RDM to transfer merchandise from one location to another. RDM defines the status of the transfer by sending RMS a message that includes distro number for the stock order and the distribution type. Distro numbers also pertain to allocations, customer orders, and movements of inventory initiated by the distribution center (RDM).

Purging of appointments and purchase orders

RDM generates appointment records to indicate the quantities of particular Items sent to various Locations within the system. In addition, the records indicate the specific document (Purchase Order, Transfer or Allocation) responsible for the movement of the Item. There is a parent-child relationship between RMS PO's and RDM Appointments. Due to this dependency, when purging PO's and Appointments, RDM must send a ‘delete appointments’ message to RMS before RMS attempts to delete the associated PO and send a ‘delete PO’ message to RDM.

There are settings within each application indicating when the purge cycles should be run. In RDM, the (scp.appt_purge_days) column in System Parameters displays the number of days after an Appointment has been closed that their purge process will delete associated Appointments. In RMS, the unit_options.order_history_months displays the number of months after a PO has been closed that the PO should be purged. Due to the dependency between POs and appointments, the RDM parameter needs to be a lesser number than the RMS parameter. If RMS purges closed POs before RDM has deleted the associated appointments, foreign key violations will occur.

Sequence Numbers – RMS, RCOM, RDM

Retek 10.0 requires that Purchase Orders, Transfers, Allocations, and Customer Orders run off of the same sequence number to ensure uniqueness across all Retek applications and to ensure numbers created across the various Retek systems (that is, RMS, RDM, Stores, etc.) will be able to be interpreted by any system.

The following is a summary of the sequence numbers that will be used by the Retek suite of applications:

Document Type	Min Value	Max Value	Comments
RMS Purchase Orders	1	99,999,999	RMS PO number is 8 in length and will be given the first 100 million numbers.
Store and Warehouse Generated Transfers	100,000,000	999,999,999	The next 900 Million numbers will be reserved for store and warehouse generated transfers. Clients should ensure that each instance of RDM, Stores, etc, is assigned a range of number within this range. (Note: This range should only be used for transfers that are generated outside of RMS and this should be a rare case.)
Allocations	1,000,000,000	2,999,999,999	2 billion numbers will be reserved for allocation creation in the Retek Allocation product and Replenishment.
Transfers	3,000,000,000	5,999,999,999	3 billion numbers will be reserved for creation of RMS transfers.
Customer Orders	6,000,000,000	9,999,999,999	4billion numbers will be reserved for creation of customer orders in RCOM.

Implementation

Implementing the above sequences will be a manual process at installation. Retek products will be shipped with the above sequence ranges. Clients will be able to evaluate their particular needs and manually change the sequences at installation. Clients will also be expected to divide the store/warehouse initiated transfer number range between all instances of their warehouse and store systems if needed.