# Source List

Contains possible sources of demand

Source List For MDS

List of forecasts

Source List For MRP

List of MDS

# Forecast

Forecast of all items

# MDS

1. Copy all forecast data (as per the MDS source list) to MDS lines
2. copy all sales orders (not shipped and shipping inventory same as MDS inventory)
3. Consume the forecast

Refresh MDS does 1, 2 and 3

Consume MDS does 3

# MRP

1. Collect Demand Data

1.1 Copy all demand data (as per the MRP source list) to MRP demands

MRP demands contain all demands copied from MDS as independent demand

1. Create low-level codes of all the distinct items in MDS
   1. Get all distinct items and add them as level 0 in the low-level code table (item and parent item are the same)
   2. For each item find the BOM components and add them as level 1 with the parent item
   3. For each level 1 item check if BOM components exist if yes add them as level 2 with level 1 item as parent
   4. Continue till all the items are added (a level at which items don’t have any BOM)
   5. Low-level code is the maximum value of an item in low-level code table
2. Collect Supply Data
   1. Onhands
   2. Purchase Orders
   3. Purchase Requisitions
   4. Work Orders
3. Create planned orders for items in Independent Requirement with low-level code 0
   1. Find all demands date-wise
   2. Offset demand by lead-time (1. Mfg Lead Time 2. Purchasing LT ) (Pre, Post, Processing)
   3. Net all supplies (OnH and, Open POs, WOs, Requisitions)
   4. Create Planned Orders