

AUTOMATIC POS REORDERS

The DPS system can automatically generate reorders to maintain a predetermined stock level of a title at the store. This is based on the POS Sold quantity from the POS file and the retailer's original draw as recorded in the O/R file. This function is called during EOD.

If you are using the DPS VIP System, the auto POS reorders will print invoices but not update EDI, archive invoices or update the consignment fields in the retailer and sales files.

The automatic POS Automatic reorder function can be used in conjunction with the Pull/Put Away reporting and Static Bin assignment programs.

Setup

321 - POS Options - Create POS Reorders

This field must be set to 'Y' to use the automatic POS reorders function.

500 - More Data 2 - Minimum POS Reorder

This field controls the minimum dollar value (at the retailer's price) that must be reached before an automatic reorder is generated. Enter '\$0' to prevent the retailer from receiving any automatic reorders. Enter '\$.01' to allow any automatic reorder no matter how small. An entry of '\$20' will only allow an automatic reorder if the total at the retailer's price is greater than '\$20'.

500 - More Data 2 - Reorder Delivery Days Table.

This table allows you to specify the day or days of the week that product is actually delivered to the retailer. The Automatic POS Reorder function will only create reorders for the days of the week set to 'Y' for the retailer. This is based on the system date of when EOD runs.

700 - More Data 2 - POS Reorder Days

This field controls how many days from the invoice date that the automatic reorder logic will be performed for an issue. Enter '0' and the reorder logic will not be performed for any issue.

146 - Add/Update POS Reorder Record

The automatic reorder function's goal is to maintain the stock-on-hand quantity at the store at a user defined level over a specified date range. The stock-on-hand level is based on a percentage of the retailer's original draw. The date ranges are specified as the number of days from the invoice date. This file is defined to query as file #148 - POS Reorder File.

*The final entry for PCN TDRAW/NBR DAYS is the cutoff point for performing the automatic reorder logic for an issue. In the example below, automatic reorders stop on day 20 past the invoice date.

146 - ADD/UPDATE POS REORDER RECORD

TITLE : 3744 MAXIM
RETLR NBR: 99149 TARGET CHAIN

PCNT DRAW 1 :	100	PCNT DRAW 6 :	
NBR DAYS 1 :	6	NBR DAYS 6 :	
PCNT DRAW 2 :	75	PCNT DRAW 7 :	
NBR DAYS 2 :	13	NBR DAYS 7 :	
PCNT DRAW 3 :	50	PCNT DRAW 8 :	
NBR DAYS 3 :	19	NBR DAYS 8 :	
PCNT DRAW 4 :		PCNT DRAW 9 :	
NBR DAYS 4 :		NBR DAYS 9 :	
PCNT DRAW 5 :		PCNT DRAW 10 :	
NBR DAYS 5 :		NBR DAYS 10 :	

DELETE (N/Y) : N

Bin Assignment Setup

You can assign a title or titles to permanent 'static' bin locations. The system can dynamically assign the other titles to a specified range of available bins. ** Note that this is done automatically if you are setup to use the Pull/Put Away function. This happens during Code 179 (subroutine X770 - Update Warehouse Reorder Bin file). Code X770 can import a csv file when run in standalone mode from the main menu. This should be done to setup the initial 'static bin' assignment.

Code 321 - Invoice Options More 2 - Main Warehouse

You must assign any number to this field. The number you enter here must be the same number that is entered in the P05 - Maintain Reorder Bin File.

Code P05 - Maintain Reorder Bin File

This program defines the range of bins that are available for dynamic bin assignment. The system will use this table to try to find a slot for any title that does not have a static bin assignment.

The program prompt for location number. This must be the same number assigned in the Code 321 - Invoice Options More 2 - Main Warehouse field.

This code has a lower and upper limit for a range of bin numbers with a From and To Copies for each bin range. The 'From and To Copies' field is used to define how many copies can fit into the bin location.

If all the reorder bin numbers for a quantity range are used up, the system will assign a title/issue to the first range of bin numbers that can hold the copies. If there are no bin numbers available at all, the title/issue will be assigned to bin 1.

Code 127 - Add/Update Static Bin Data

This program is used to assign titles to the 'Static bin file'. The Static Bin File is defined to query as file #131. The rule is one title per bin, the message 'Bin Already In Use' will display if you try to assign a duplicate title to the same static bin. The message 'BIN CAN'T

BE IN P05' displays if you try to define a static bin that has already been defined as a dynamic bin in the P05 table.

Import Reorder Inventory - Initial Setup

Code X770 (that runs when Code 179 - Accept Invoice Run) will run from the main menu to allow you to import a .csv file for the initial file setup with the titles/issues/bin numbers that are in the reorder area. The .csv file must be named REORDER.csv and put into the /home/dps/mag/data directory. The format is 'title,issue,bin'. Code X770 will prompt for the master password from Code 321. Then, it will prompt for location number and read the .csv file to add the data to the Warehouse Reorder Stat File for the location number entered. The titles/issues added to the file are assigned the next tie number from Code 321.

EOD - End of Day Processing

When the Code 321 - POS Options - Create POS Reorders flag is 'Y', EOD will prompt for Invoice printer selection, A/R description, Delivery Type and Special Messages. The invoice date will default to the system date of when EOD is run. EOD calls a program X801 - Create POS Reorders to perform the 'automatic reorders function'.

The following reports will be generated by X801 during EOD:

EOD X801 - POS Reorders No Fill Report

This report lists the title/issue, retailer, quantity, price and extended price for all retailers where the 'minimum pos reorder' dollar amount was not reached.

EOD X176 - Print Invoices

These are the actual invoices created by the 'automatic reorder' function.

EOD X174 - Create VIP Pick.

This reports lists any bin assignment errors. The system creates an invoice download file for the PTL, named mmddy55.

A/R and Sales will appear under 'Consignment Debits' on the X013 - Detail Sales Listing and on the X014 - A/R Tran Batch Proof Register.

Automatic POS Reorders and added to the Cancel Invoice file, so that these can be picked up by Code 804.

theory of operation -

Example of how this would work: take Maxim (title 03744) issue 01 as an example for Target chain 99149.

Issue 01 has an Invoice date of 12/14/2005. The off-sale date is 12/17/2005 even though in reality the title is going to be out on the stands for the entire month. Everyday POS data comes into the system and gets posted to the DPS POS file. You could build entries for the stores like this:

Chain: 99149
 Title: 03744
 - 100% 6 days
 - 75% 13 days
 - 50% 19 days

If the O/R File for one Target store had a draw of 100 and let's say sales start to come in right away.

For days 1 through 6, the program would reorder back out enough copies to get the store back to 100 copies. For days 7 through 13, it would then create a reorder with enough copies so that they have 75% of their original draw (75 copies). For days 14 through 19, it would reorder them up to 50% of their original draw or up to 50 copies. After 20 days, no more reorders would be done. This makes the last entry the stopping point.

When EOD is run, we will look at the new flag in 321. If it is set, we will add a prompt for a reorder printer. We store the system date of when EOD starts and use that date when running the logic of building reorders. We will look at the Bulk File invoice date, the number of days for how long a reorder is allowed, and make the determination if it's OK to create a reorder or not.

The minimum dollar amount that a dealer must reach in order for the system to allow them to get a computer generated reorder is recorded in the Retailer file - More Data 2 - Minimum POS Reorder field. If 0 is in there, this will indicate that the retailer is not to get any computer generated reorders. If you would like to generate a reorder no matter how small, you would enter .01. Maybe a normal account is set to \$20.00 or whatever you want.

Code X801 makes the first pass through the Code 146 POS Reorder file, built in Code 146 above, and to check if any retailer/chains need to have any reorders created. The first pass will not post anything, but it will write the data to a work file. If the dollar amount of all potential reorders for a retailer is more than the minimum amount set up in the Retailer File, the program will go ahead and post the data, create a printed reorder, and also create a picking system download file with sequence number of 55 for the DPS picking system. That means after this job has run, any computer generated reorders will now be posted to the Bulk, O/R files, a printed reorder document will be on the printer selected in EOD, and a download file will be ready to be pulled into the picking system.

How the reorder compute program works.

- If new 321 flag is set then in EOD we will prompt for reorder printer and messages.

New code X801 has been created to do the following

- Reads through the Bulk file, skip any records that are aged.
- skip any records where the title file has new reorder days set to 0.
- skip any records where I can't find dealer 0 for the title.
- skip any records that have nothing entered into the new file using code 146. (dealer or chain, title pos percents)
- skip any bulk records where the invoice date is 0.
- take the invoice date and subtract it from the system date to get 'net days'. Example is system date is 05/22/06 and title, issue has invoice date of 5/18/06 so net days is 4.
- take invoice date and add the number of days a title always a reorder on and if that date is less than the system date I skip the record. So same example above and title has 10 set up for POS days. I add 10 to 5/18/06 and get 5/28/06 and this date is past the system date of 5/22/06 so I use it. When the system date is 5/29/06 we will no longer do reorders on that title and issue.
- then compute the in stock value for the title, issue and if this value is less than 1 I skip the record.
- Once I finally have a title, issue to process I then for the first time create a memory table of dealers.
- then find the issue in the O/R file that I'm trying to process. If the issue is not found I skip the record.
- then read the O/R file for all the dealers have something built in the new 146 file. If the record is not found I try another dealer. If the dealer is found I get there draw for the issue in question. I then read the POS file for the dealer, if its not found I skip the dealer. If I find the POS record I get the quantity sold from the file. I then read the new 146 file. First trying to read the file for the title by the dealer and if its not found I try to read by the dealers chain number. If not found I try another dealer. Once I find a 146 record, I start with the first set of numbers keyed in and take the net days number from above and compare to the first nbr days in 146. If the net days is less than that value and that value is not 0, I use that percent. If the net days is greater than the field I try the next and continue until I find a good percent to use or if not I read the next dealer.
- now compute a value called net-left which is the draw - POS sold - reorders done.
- then compute how many copies the dealer should be out by taking there draw * the percent from the 146 table.
- Then take the compute copies minus the net-left copies to see if we need to reorder any. If thus value is less than 1, I skip the dealer.
- then see if there are enough copies in stock for the copies going out. If the requested is less than the in stock value I can it to the in stock value.

Example

O/R file title 185 issue 5 for dealer 224, has a draw of 100 copies, no returns or reorders.

POS file for same record has quantity sold of 34.

146 file has record set up for dealer 224, title 185 with 20 days and 100 percent for first entry.

When I run this job it computes 34 copies to reorder back out to get them back to 100 % of there initial draw.

I then check the off price file to determine what the retail and price needs to be for this title and issue.

I add up the extended price amount for the copies being billed to determine later on if we should fill the order or not. As of this point nothing has been updated in any files. The data is written to a work file.

The work file is sorted by dealer so I can get then determine if the entire value of the order is more than what can be set up in the dealer file.

If the dealers pass's the dollar amount test then process the data calling the following codes.

X170 - Sort file

X172 - Assign Invoice number

X176 - Print Invoice

X025 - Create EDI data * if 321 flag set

X024 - Create Save billing file * If 321 flag set

I then post the O/R file for reorders, the Bulk file for reorders and the warehouse bulk file if the 321 flag is set.

Bin numbers start at 2 and go up. Need to have something in there that is in the P01 table and its a controller. The pick file will be created with seq. 55 and if its already there it adds to the number.