






The logo for ISS 45, consisting of the letters 'ISS' stacked above the number '45' in a large, bold, black serif font, all enclosed within a thin black rectangular border.

-  *ISS45 Version 7.1.5.0-050*
-  *Release Notes & What's New*
- 
- 
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## ISS45 V7 Release Notes & What's New

<b>Date of Issue</b>	<b>Product Identification Number</b>	<b>Part Number</b>	<b>Brief Description</b>
Earlier Releases: 89000408, 89000444, 89000444B, 89000516			
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May 2010	45001/080	89000564	7.1.3.0-140
June 2010	45001/080	89000564	7.1.3.0-150
June 2010	45001/080	89000572	7.1.3.0-160
August 2010	45001/080	89000588	7.1.3.0-170
November 2010	45001/080	89000598	7.1.4.0-050 Release
November 2010	45001/080	89000605	7.1.4.0-050 Updated
December 2010	45001/080	89000606	7.1.4.0-050 Updated
February 2011	45001/080	89000628	7.1.4.0-060
April 2011	45001/080	89000637	7.1.4.0-070
June 2011	45001/080	89000657	7.1.4.0-080
August 2011	45001/080	89000665	7.1.5.0-050

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# Introduction

Enhancements were recently made to the StoreNext ISS45 system. The changes are reflected in the accompanying ISS45 7.1.5.0-050 software. The Change Request Document (CRD) number assigned to each enhancement is listed in the description heading.

The Change Request Document (CRD) number assigned to each enhancement is listed in the description heading. Following the change description is an abbreviation (or combination thereof) of the ISS45 area affected:

(BO) – Back Office

(POS) – WinPOS

(Sys) – System / Services

These enhancements are explained in detail in the following pages and are included in the latest Office Users Guide, WinPOS User Guide and Office Administrator's Reference. If you have any questions regarding this release, please contact StoreNext Support.

## 158326 – Databar Coupon Support (BO\POS)

Included in this release is ISS45's first phase of coupon scanning support for the Databar Application Identifier (AI) 8110 format. Databar barcodes began replacing traditional UPC5 barcodes on manufacturer coupons in 2010. (At that time coupons started including the Databar barcode next to the UPC5 barcode.)



**Note:**

Most scanners purchased within the last 7 years are already Databar compatible and most shipped within the past 10 years can be upgraded to support Databar. Retailers should understand their options with the scanners they are currently using and plan to upgrade their scanners as necessary. The scanner must support both the Databar (RSS) Expanded Format and the Databar Application Identifier (AI) 8110 format (for coupons). For interim coupons that contain both UPC5 and Databar barcode, scanners must be configured to recognize one or the other (but not both). It is left to the retailer to consult with their hardware vendor on exactly what Databar barcode support their scanner systems have and how to properly configure them.

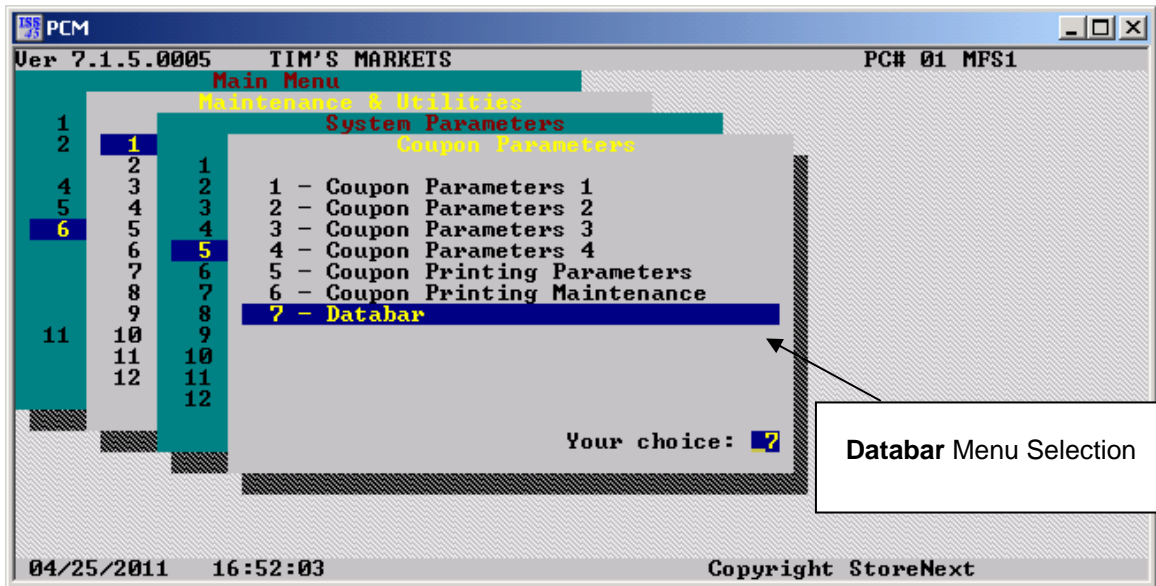
**Note:**

The handling of UPC5 coupons will remain unchanged for this and future releases. Even though UPC5 coupons are no longer printed, they continue to be in circulation and many have no expiration date. For backwards compatibility, ISS45 will continue to recognize these barcodes and process them as it does today.

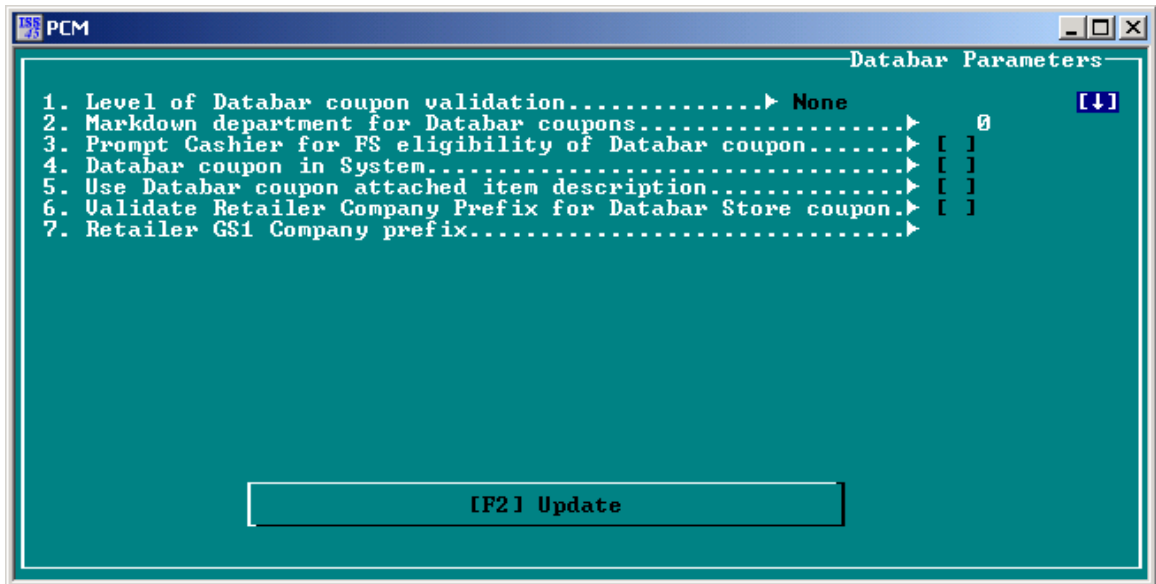
## Back Office

### New Menu Selection

Databar coupon parameters are maintained under the **new** Databar menu selection (6-1-5-7). The Databar Parameters Screen displays when selected.



### Databar Parameters Screen



Parameter	Explanation
Level of Databar coupon validation	<p>This parameter defines the validation level used when an item is purchased with a Databar coupon. Valid selections are <b>None</b>, <b>Company prefix</b>, <b>Family &lt;3 digit&gt;</b> code number or <b>Family Code Wildcard</b>.</p> <p><b>Note:</b>  The Family Code is assigned by the owner of the primary GS1 (formerly Manufacturer ID) company prefix and used for validation of the qualifying purchase items.</p>
Markdown department for Databar coupons	<p>This parameter specifies the department number for reporting Databar coupon sales totals. This parameter is relevant when the <b>Level of Databar coupon</b> validation parameter is set to <b>None</b> (i.e. Databar is not reported as tender).</p>
Prompt Cashier for FS eligibility of Databar coupon	<p><u>(Not implemented in this release)</u> If checked and company prefix validation is used, the cashier will be prompted for food stamp eligibility of Databar coupon when the same Company prefix exists in a transaction for both food stamp eligible and non-food stamp eligible items. If unchecked, the cashier will not be prompted.</p>
Databar coupon in System	<p>This parameter enables the option of defining Databar coupons in the system. If unchecked, Databar coupons will not be recognized.</p>
Use Databar coupon attached item description	<p>If checked, the description of the item that was purchased with a coupon will be printed on the receipt for the coupon. If unchecked, only the tender type will print.</p>

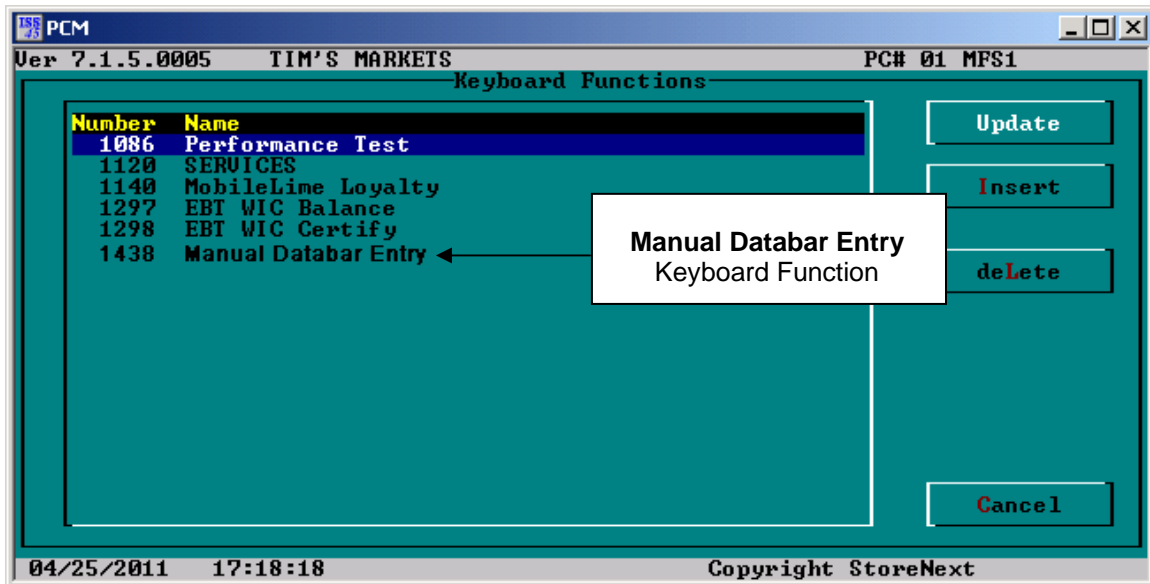
<p>Validate Retailer Company Prefix for Databar Store coupons</p>	<p>If checked, any Databar Store Coupon that does not include a Global Location Number (GLN) that begins with the proper Retailer GS1 Company Prefix will be rejected. If unchecked, any Databar Store Coupon that is scanned will be considered a valid store coupon.</p> <p><b>Note:</b> This parameter is not used for Vendor Coupon validation. (If the Store Coupon flag within the Databar coupon structure is set to 0, then the coupon is considered to be a Vendor Coupon.)</p>
<p>Retailer GS1 Company prefix</p>	<p>When this parameter is defined, any Databar store coupon with a Global Location Number (GLN) that does not begin with the value will be rejected.</p> <p><b>Note:</b> This parameter is not used for Vendor Coupon validation. (If the Store Coupon flag within the Databar coupon structure is set to 0, then the coupon is considered to be a Vendor Coupon.)</p>

**Note:**

For proper reporting of manually-entered coupons, the “Dept net” parameters on Vendor Coupons and Store Coupons (6-1-5-1) must both be checked. If bonus coupons are used, the “Dept net” parameter on Bonus coupons should also be checked.

## New Keyboard Function

To support manual entry of non-scannable Databar barcodes, the System Administration’s Keyboard Functions Screen now displays the new “Manual Databar entry” function as Function Number 1438.



## POS

### New Databar Coupon Engine

To support the scanning of Databar coupon barcodes, the new Databar coupon engine identifies when a Databar barcode is scanned at the POS and parses the barcode data for execution and optional validation (using company prefix and family number).

If the coupon is not valid, the warning message "Invalid Coupon Sale" will appear on the Cashier Display. If the Databar coupon engine determines the coupon is valid, logic based on both existing coupon parameters and the Databar Parameters is implemented.

### Existing Coupon Settings and Parameters

Tender Maintenance settings for Tender Types of "Store Coupons" and "Vendor Coupons" will be followed for Databar coupons. In addition, the following existing coupon parameters will be used for coupon validation:

- Maximum coupon face value (6-1-5-2-#5).
- Control Check to allow override of maximum face value of scanned coupons.
- Control Check to allow more coupons than items (6-1-5-2-#3).
- Control Check to allow coupon as first item in ticket (6-1-5-2-#13).
- Forgive tax on vendor coupon if F/S tendered (6-1-2-4-#7).

- Department net on Vendor coupon (6-1-5-1).
- Department net on Store coupon (6-1-5-1).

### New Databar Coupon Validation

If the new “Databar coupon in System” parameter is enabled and a Databar coupon barcode is scanned or key-entered at the POS, the message “Barcode not defined” will be displayed and the coupon will be rejected.

If the “Databar coupon in System” parameter is enabled and the “Level of Databar coupon validation” is set to **Family <3 digit>**, validation will be performed at the both the Company (i.e. Manufacturer) and Family level. If set to **Company prefix**, validation will be performed at the Company level only.

#### Note:

If a coupon contains a Family Code of “000”, no Family Code validation will be performed.

If the “Level of Databar coupon validation” is set to **Family Code Wildcard**:

- If the Family Code in the Databar coupon has no trailing zeroes, then it will be matched exactly against the 3 digits of the Family Code in the item PLU. If a match is identified, it will be added to the ticket. Otherwise, the coupon will be declined.
- If the Family Code in the Databar coupon has one trailing zero in the Databar coupon, it will be matched against item PLU family codes in the 120-129 range. If a match is identified, it will be added to the ticket. Otherwise, the coupon will be declined.
- If the Family Code in the Databar coupon has two trailing zeroes in the Databar coupon, it will be matched against item PLU family codes in the 100-199 range. If a match is identified, it will be added to the ticket. Otherwise, the coupon will be declined.

For store coupons, if the “Validate Databar Company Prefix for Databar Store coupons” parameter is enabled, when the scanned Databar store coupon’s Global Location Number (GLN) does not match that of the new “Retailer GS1 Company prefix” parameter, the “Invalid Coupon Sale” message will display. If the “Validate Databar Company Prefix for Databar Store coupons” parameter is disabled, no company validation will be performed on store coupons.

**Note:**

The number of times the coupon can be applied is equal to the value defined in the Store Coupon flag. For example if the value is 3, coupon can be scanned three times in the same transaction as long as qualifying criteria is met.

**Note:**

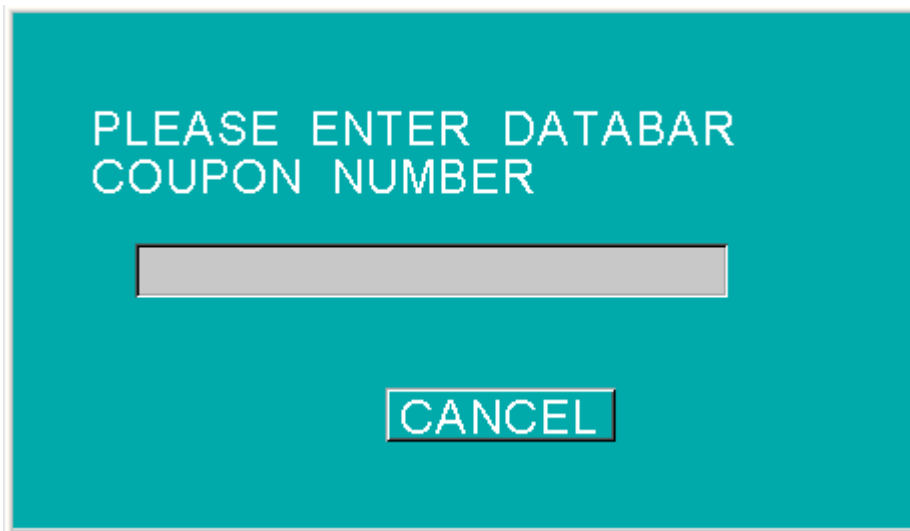
Databar Coupons can be applied to individual items, group of items or order level total (depending on the structure of the coupon).

**Note:**

If the validated coupon can be used on multiple ticket items, the Databar Coupon will be applied so the customer receives the best deal.

**Manual Databar Barcode Entry**

When a Databar coupon is unscannable, the coupon can be key-entered by executing the new Manual Databar Entry Keyboard Code. The following prompt displays:



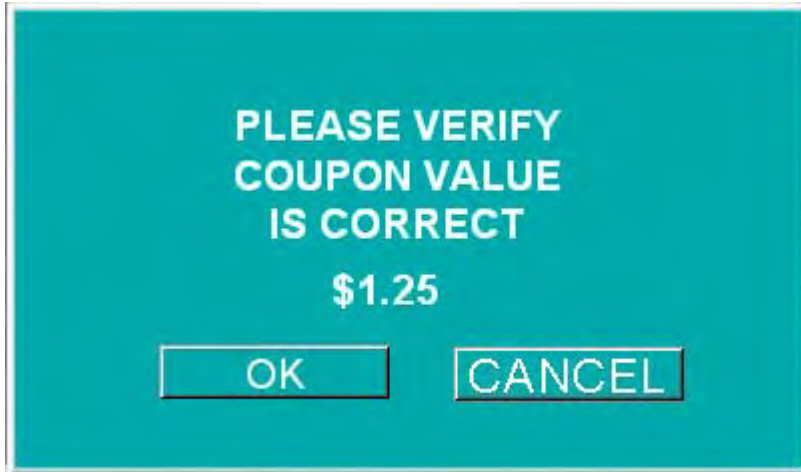
A screenshot of a teal-colored prompt screen. The text "PLEASE ENTER DATABAR COUPON NUMBER" is displayed in white, uppercase letters at the top. Below the text is a horizontal grey input field. At the bottom center, there is a white rectangular button with the word "CANCEL" in teal, uppercase letters.

The cashier is only required to enter the company prefix and offer code (between 12 and 18 digits – the only cashier-readable numbers on the coupon). The cashier will then be prompted to enter the coupon amount (and no validation against the items in the order will be performed). If the entered number does not match the required length, the “Invalid number” message displays.

**Cashier Intervention**

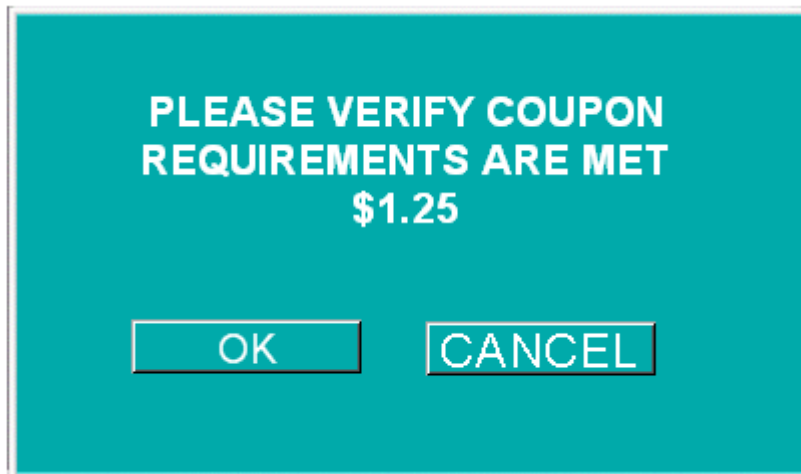
There could be several situations that require the cashier to either verify the coupon or apply the discount manually (usually determined by the coupon data).

When the coupon save value is present and an item is attached, a save amount verification message will appear on the Cashier Display:



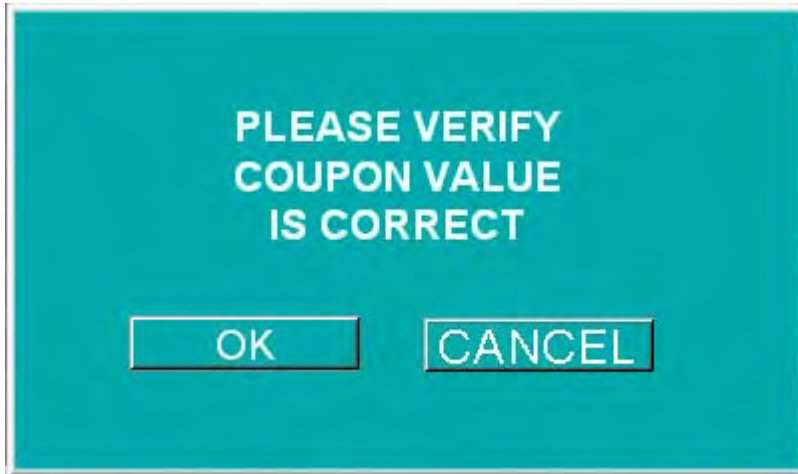
If the cashier presses OK, the coupon amount is applied to the item. If the cashier presses Cancel, the coupon is not added to the ticket and the POS returns to Sale Mode.

When the coupon save value is present but an item is not attached, the following message displays:

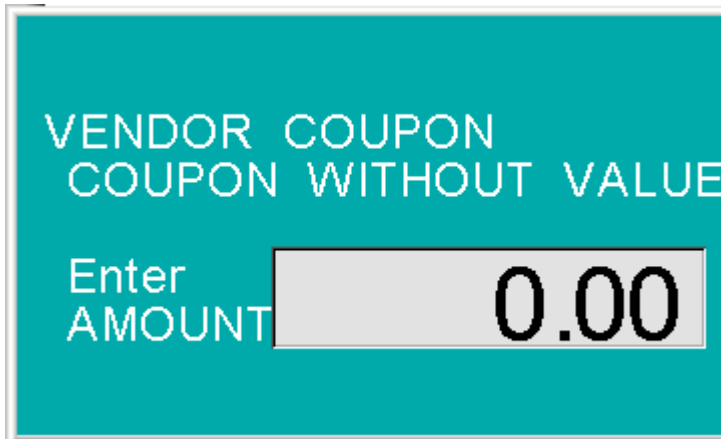


When OK is pressed a department list will display and the cashier will be prompted to choose a department to which the coupon should be applied.

If there is no coupon save value but the item is attached, the following message will appear on the Cashier Display:



If the cashier presses Cancel, the coupon is not added to the ticket and the POS returns to Sale Mode. If the cashier presses OK, a coupon value will be requested:



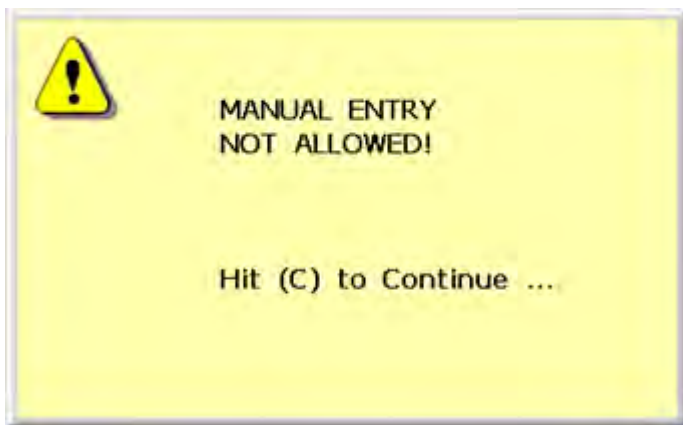
If there is no coupon save value and no item is attached, the cashier will be prompted to enter both the coupon value and to choose a department to which the coupon should be applied.

#### **New Information Transaction**

A new TLOG information transaction has been added in this release that holds the data parsed from the Databar barcode (that is not already stored in the coupon record). Please see page 16 for more information.

## 159359 – Manual Account Number Entry Prevention (POS)

For Payment Card Industry (PCI) Compliance, the POS no longer permits account numbers to be manually entered at the POS for Credit Cards and Debit Cards. When attempted, the following error message displays to the cashier:



**Note:**

The Tender Maintenance (1-6-8) parameters "MCR Misread", "MCR Timeout" and "Allow manual account entry" are no longer used for Tender Types of "Credit Card / EFT" and "Debit Card". Repeated bad card swipes will require another tender to be used.

## 166137 – Removal of PKZIP \ PKUNZIP (BO)

For licensing reasons the use of PKZIP.EXE and PKUNZIP.EXE in ISS45 has been replaced with DZIP.EXE and DUNZIP.EXE.

In this release, the following batch files now use DZIP \ DUNZIP (instead of PKZIP \ PKUNZIP):

- C:\PCMASTER \ E-OF-DAY.BAT
- C:\PCMASTER \ EOD-BUP.BAT
- C:\PCMASTER \ SQLHUK.BAT
- C:\PCMASTER \ WAIT4PLU.BAT
- C:\PCMASTER \ DRV \ GENFUNCS.BAT
- C:\PCMASTER \ WIC-BUP.BAT
- C:\PCMASTER \ WIC \ APLUZIP.BAT
- C:\PCMASTER \ WIC \ HCLUZIP.BAT
- C:\PCMASTER \ WIC \ CLAIMZIP.BAT
- C:\PCMASTER \ WIC \ WICCOMM.BAT

The following applications now use DZIP \ DUNZIP (instead of PKZIP \ PKUNZIP).

- C:\PCMASTER \ ASPREPS.EXE
- C:\PCMASTER \ DRV \ DELHIST.EXE
- C:\PCMASTER \ EXTRACT.EXE
- C:\PCMASTER \ PCMALERT.EXE
- C:\PCMASTER \ PCMBATX.EXE
- C:\PCMASTER \ PCMCASHR.EXE
- C:\PCMASTER \ PCMCOREP.EXE
- C:\PCMASTER \ PCMEJ.EXE
- C:\PCMASTER \ PCMHP.EXE
- C:\PCMASTER \ PCMINSTL.EXE
- C:\PCMASTER \ PCMLOG.EXE
- C:\PCMASTER \ PCMMNG.EXE

- C:\PCMASTER \ PCMPACCT.EXE
- C:\PCMASTER \ PCMRBLD.EXE
- C:\PCMASTER \ PCMPRSAL.EXE
- C:\PCMASTER \ PCMQBUST.EXE
- C:\PCMASTER \ PCMREP.EXE
- C:\PCMASTER \ PCMREPS.EXE
- C:\PCMASTER \ PCMSYSUT.EXE
- C:\PCMASTER \ PCMT2ASC.EXE
- C:\PCMASTER \ PCMTREP.EXE
- C:\PCMASTER \ PCMTRNSV.EXE
- C:\PCMASTER \ PCMZIPQ.EXE
- C:\PCMASTER \ ZIPDATE.EXE
- C:\PCMASTER \ DRV \ PLUGUPD.EXE

**Note:**

Two library functions (zip\_eod\_rep and \_view\_zipped\_rep) have also been modified to use DZIP \ DUNZIP (instead of PKZIP \ PKUNZIP).

## 217457 – Modified WIC Claim Export File Utility (BO)

The extract utility SWExtrct.exe (used to create text-based WIC claim files from data in the Transact.qdx file) has been modified in this release to properly create date-based filenames. In previous releases, the program was incorrectly calculating Julian dates. This caused reporting problems when searching for claim files based on the date ranges selected by the user.

**Note:**

The extract utility will examine all files in the Wic\History folder and correct the filenames (if the filename does not match the date inside the claim file). The process is run automatically during EOD claim creation.

## Other Enhancements

- 158740 – The report dates now listed in promotion XML files are the business date for which the data is associated. In previous releases, the current date and time the XML file was generated was included in the file. If EOD occurred after midnight, the date listed was the following day. Being no longer relevant, the report time is now always listed as 00:00:00.

**Note:**

A Member Promotion Report is generated in an XML format during end-of-day processing. The report is labeled as **MPmmdd.XML** (where MP = Member Promotion, mm = 2-digit month and dd = 2-digit day) and is archived as **MEMDXML.zip** in the C:\PCMASTER\HISTORY folder.

- 221041 – Beginning this release, the 32-Key IBM Keyboard is now supported.

# Technical Reference Appendix

## New TLOG Information Transaction

The layout of the new Databar Coupon Information Transaction (0x70 0xF0) is as follows:

Bytes	From	To	Data	Bits	Explanation	Remarks
1	0	1	Opcode		70 – Log Information Trans Info 2	
1	1	2	Function		0xF0	
1	2	3	SubOpcode		TICKET FRAME 0x01 BARCODE 0x02 PRIMARY PURCHASE 0x03 SECOND_PURCHASE 0x04 THIRD PURCHASE 0x05 COUPON DATA 1 0x06 COUPON DATA 2 0x07 COUPON DATA 3 0x08 TRANSACTION ITEM LINKS 0x09 TRANSACTION TICKET END 0x89 TRANSACTION MANUAL ENTRY 0x99	
					//When one record is broken up into header and associated data records	
					COUPON HEADER 0x01 COUPON HEADER 0x02	

Union

Coupon Ticket Frame 0x01

1 3 4 Flag

Bit 0 Was Cancelled

Bit 1 Not Used

Bit 2 Not Used

Bit 3 Not Used

Bit 4 Not Used

Bit 5 Not Used

Bit 6 Not Used

Bytes	From	To	Data	Bits	Explanation	Remarks
				Bit 7	Not Used	
40	4	44	Not Used			
			Coupon trans Barcode		0x02	
1	3	4	Type			
Union			Barcode Header			
4	4	8	Number of Data records			There will be a maximum of 2 records – max barcode is 70 characters
			Barcode Data			
1	4	5	Record No.			
39	5	44	Data			
			Primary Purchase		0x03	
13	3	16	Company prefix			
3	16	19	Family Code			
4	19	23	Purchase Requirement			
4	23	27	Purchase requirement code			
17	27	44	Not Used			
			Second Purchase		0x04	
13	3	16	Company Prefix			
3	16	19	Family Code			
4	19	23	Purchase Requirement			
4	23	27	Purchase Requirement Code			
17	27	44	Not Used			
			Third Purchase		0x05	
13	3	16	Company Prefix			

Bytes	From	To	Data	Bits	Explanation	Remarks
3	16	19	Family Code			
4	19	23	Purchase Requirement			
4	23	27	Purchase Requirement code			
17	27	44	Not Used			
	Trans Data 1		0x06			
4	3	7	Amount			
4	7	11	Qty			
6	11	17	Offer Code			
4	17	21	Save Value			
4	21	25	Additional Purchase Rules Code			
6	25	31	Expiration Date			YYMMDD
6	31	37	Start Date			YYMMDD
7	37	44	Not Used			
	Trans Data 2		0x07			
15	3	18	Serial Number			
13	18	31	Retailer GS1 Company Prefix			
4	31	35	Save Value Code			
4	35	39	Save Value Applies To			
4	39	43	Store Coupon Flag			0 = Not Store Coupon 1-9 = Store Coupon, value is limit qty
1	43	44	Not Used			
	Trans Data 3		0x08			
4	3	7	Multiply allowed flag			0 = allowed 1 = Not allowed
4	7	11	Checker intervention required flag			0 = no cashier intervention required 1 = cashier intervention

Bytes	From	To	Data	Bits	Explanation	Remarks
						required
4	11	15	General error flag			
4	15	19	Start Date Status			
4	19	23	Expiry Date Status			
4	23	27	Svat Qualifier Field			
17	27	44	Not Used			
			Trans Item Links			
1	3	4	Type		Type = 0x01	
Union			Header			
2	4	6	Num of links			
38	6	44	Not Used			
					Type = 0x02	Repeat this data record for the number of item links
14	4	18	PLU Code			
4	18	22	Sequence			
4	22	26	Sub Sequence			
4	26	30	Item Qualifier			
14	30	44	Not Used			
			Trans Manual Entry		0x99	
18	3	21	Databar Number			
2	21	23	Dept			
4	23	27	Amount			
17	27	44	Not Used			
20	44	64	Tail			
64			Total			

## Out of Scope

Limitations of new features in this release are listed below (and were not addressed in development).

**Note:**

The limitations below are known as of this writing, and are provided in order to assist users and support personnel to plan, install and operate the capabilities described in this document. While StoreNext Retail Technologies LLC endeavors to ensure that this information is correct and fairly stated, no attempt is made here to catalog all limitations that could be construed or that may become known in the course of use or experience.

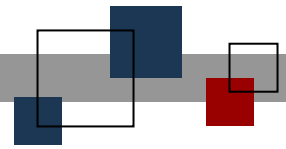
FSD Number	Enhancement	Out of Scope
158326	Databar Coupon Support	Databar Coupon Support is available for the current release only (and will not be made compatible with previous ISS45 releases).
159359	Manual Account Number Entry Prevention	Manual Account Number Entry Prevention is available for the current release only (and will not be made compatible with previous ISS45 releases).
166137	Removal of PKZIP \ PKUNZIP	The removal of PKZIP \ PKUNZIP was made for the current release only (and will not be made compatible with previous ISS45 releases).
217457	Modified WIC Claim Export File Utility	The Modified WIC Claim Export File Utility is available for the current release only (and will not be made compatible with previous ISS45 releases).

## Dependencies

Dependencies to utilize new features in this release are listed below.

FSD Number	Enhancement	Dependencies
158326	Databar Coupon Support	<ol style="list-style-type: none"><li>1. Scanners programmed to read Databar barcodes.</li><li>2. Microsoft .Net Framework 2.0 installed on the POS.</li></ol>





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