



A vertical bar with five colored squares: dark blue, medium blue, light blue, and two very light blue squares at the bottom.
ISS45 Transaction File
Technical Reference
Version 7.1.5.0

ISS45 Transaction File Technical Reference

Date of Issue	Product Identification Number	Part Number	Brief Description
October 1996	45001/016	80328028	Version 7.3
June 1997	45001/016	80328461	Version 7.4
June 1998	45001/016	Electronic Library 80602962	Version 7.5
February 1999	45001/016	Electronic Library 80602986	Version 7.6
February 2000	45001/016	89000036	Version 7.6.2
August 2000	45001/016	89000062	Version 7.7 (Unch)
July 2003	45000/016	89000334	Version 8.6
September 2009	45000/016	89000526	Version 8.1.4.1
November 2010	45000/016	89000602	Version 7.1.4.0
August 2011	45000/016	89000670	Version 7.1.5.0

©Copyright StoreNext Retail Technologies LLC 1995-2011
All rights reserved

This publication is protected by federal copyright law. This document and its contents are the proprietary, confidential information and property of StoreNext.. Unauthorized disclosure, reproduction, distribution or use of this document and/or its contents in any form is strictly prohibited. No part of this publication may be reproduced or transmitted into any human or computer language in any form or by any means, stored in a retrieval system, transmitted, redistributed, translated or disclosed to third parties, or de-compiled in any way including, but not limited to, photocopy, photograph, electronic, mechanical, magnetic or manual without the express written permission of StoreNext Retail Technologies LLC or its licensors, if any. This document, notwithstanding the above, may be distributed in electronic or printed form to personnel who are employed by either (1) a StoreNext customer of the subject system of this document or (2) personnel from an authorized StoreNext dealer of the subject system of this document. All copies, so distributed and/or so authorized, shall contain a full copy of this copyright notice.

StoreNext Retail Technologies LLC has prepared this manual for use by users, authorized third parties and personnel of StoreNext Retail Technologies LLC as a guide to the proper installation, operation, customization and/or maintenance of StoreNext Retail Technologies LLC equipment and software. The drawings and specifications contained herein are the property of StoreNext Retail Technologies LLC and/or its licensors.

StoreNext Retail Technologies LLC endeavors to ensure that the information in this document is correct and fairly stated but does not accept liability for any error or omission. StoreNext Retail Technologies LLC makes no representation or warranties with respect to the contents hereof, and specifically disclaims any implied warranties of merchantability or fitness for a particular purpose or non-infringement. No commitments by StoreNext or its suppliers are made from this documentation which is provided for information only.

Development of StoreNext products and documentation is continuous: StoreNext Retail Technologies LLC reserves the right to revise this publication and to make changes from time to time in the contents hereof or in the products herein described or discussed without notice and without any obligation of StoreNext Retail Technologies LLC to notify any person or organization of such revision or changes. Information published in this document will likely become obsolete over time and it is recommended that users regularly check for updates and newer versions.

The trademarks StoreNext and Retailix are registered trademarks or trademarks of Retailix; all other trademarks or registered trademarks are the property of their respective owners. Third-party products, services, or company names referenced in this document may be trademarked or copyrighted by their respective owners, and are for identification purposes only.

Copyrights, trademarks and license agreements shall be governed and construed in accordance with the laws of the State of Texas and the Federal Arbitration Act, and shall benefit Retailix, its successors, and assigns.

Address comments and corrections to:

StoreNext Retail Technologies LLC
Software Program Director
797 Commonwealth Drive
Warrendale, PA 15086

Table of Contents

Table of Contents	i
Transaction File	3
Transaction File, Tail Format.....	4
Opcodes: 01 to 56	5
0x01 Full Line Item Record	5
0x02 Department Sale.....	8
0x03 Discount.....	11
0x04 Media	13
0x05 Ticket Total	15
0x06 Tax.....	17
0x07 Float.....	18
0x08 Coupon	19
0x09 Cash Lift.....	21
0x0A Cashier Times	22
0x0B Cashier Declaration.....	24
0x10 Non-Scanned Department.....	25
0x11 PLU Sale Extension Record.....	26
0x12 Department Sale Extension Record	28
0x14 Media Extension Record	30
0x15 Media Extension Record 2	31
0x16 Payout/Receipt Record.....	32
0x17 Information T7E	33
0x18 Media Extension 3.....	34
0x20 Log Function.....	35
0x21 Ticket Frame.....	38
0x24 Media UK Ext.....	41

0x26	Media Extension 5.....	42
0x56	Cash Office.....	43
0x68	Zip Printout	44
0xFD	Gift Card Extension Media.....	45
Opcode 60, Sub-opcodes: 0x01 to 0xB3		46
0x01	Item Not Found.....	46
0x02	EFT Comm. Fail.....	47
0x03	Birthday.....	48
0x04	Tax Exempt.....	49
0x05	Car.....	50
0x06	Checksum.....	51
0x07	Background Load	52
0x08	Account.....	53
0x09	Bagger ID.....	54
0x0A	Charge Posting.....	55
0x0B	Expense.....	56
0x0C	Cost Percent.....	57
0x0D	Supervisor.....	58
0x0E	Buyaid.....	59
0x0F	Staff Discount	60
0x10	ECCA 1.....	61
0x10	ECCA 2.....	62
0x10	ECCA 3.....	63
0x11	Customer Information 1	64
0x11	Customer Information 2.....	65
0x11	Customer Information 3.....	66
0x11	Customer Information 4.....	67
0x11	Customer Information 5.....	68
0x13	SKU	69
0x14	Price Override.....	70
0x15	Cheque Guarantee	71
0x16	Drive Off.....	72
0x17	Bad Accounts	73
0x18	Reprint Ticket Request.....	74
0x19	Assistant	75
0x1A	Promotion Information	76
0x1B	Clubcard	78

0x1C	Points.....	79
0x1D	Track.....	80
0x1E	Cash in Drawer.....	81
0x1F	Wrong Password.....	82
0x20	Frequent Shopper.....	83
0x21	Unlock Update.....	84
0x22	Redemption.....	85
0x23	APAC.....	86
0x24	Alerts Test.....	87
0x26	Total Key.....	88
0x27	Extra Card Info.....	89
0x28	OLA Result.....	90
0x28	OLA Request 01.....	92
0x28	OLA Ack 02.....	93
0x28	OLA Answer 03.....	94
0x28	OLA Free 04.....	95
0x28	OLA Results Extra 05.....	96
0x28	OLA Result 00.....	97
0x28	Club Card Request 11.....	98
0x28	Club Card Answer Start 12.....	99
0x28	Club Card Answer Continued 13.....	100
0x28	Club Card End Of Ticket 14.....	101
0x28	Hungary OLA Results 30.....	102
0x28	Hungary OLA Request 31.....	104
0x28	OLA Abort 99.....	105
0x29	Auth Price Diff.....	106
0x2A	Host Batch.....	107
0x2B	Check Fee.....	108
0x2C	New ECCA.....	109
0x2D	Embedded Price.....	110
0x2E	EFT Media.....	111
0x2F	EFT Print Reject.....	112
0x30	Transaction Index.....	113
0x31	Location.....	115
0x32	Tender Coupon.....	116
0x33	Training Charge Posting Account.....	117
0x34	Ticket Trailer.....	118

0x35	<i>Finish Media</i>	119
0x36	<i>Bad External Device Transaction</i>	120
0x37	<i>Q Length</i>	121
0x38	<i>EFT Print Data</i>	122
0x39	<i>Alcohol Restricted</i>	123
0x3A	<i>Minimum Age Message</i>	124
0x3B	<i>Clubcard Extension</i>	125
0x3C	<i>Commission</i>	126
0x3D	<i>Fly Buys</i>	127
0x3E	<i>Charge Reverse Balance</i>	128
0x3F	<i>Clubcard Re-entry</i>	129
0x40	<i>Promotions/Coupons Cross</i>	130
0x41	<i>Deposit</i>	131
0x42	<i>Trading Stamps</i>	132
0x43	<i>Coupon Information</i>	133
0x44	<i>Frequent Shopper Member</i>	135
0x45	<i>Staff Discount</i>	136
0x46	<i>Recall Transaction</i>	137
0x47	<i>EFT Settlement</i>	138
0x48	<i>EFT WYNID</i>	139
0x49	<i>Respond Number</i>	140
0x4A	<i>Cheque Sort Code</i>	141
0x4B	<i>Void Report</i>	142
0x4C	<i>Reorg Print</i>	144
0x4D	<i>Family Coupon</i>	145
0x4E	<i>Customer Select</i>	146
0x4F	<i>Family Promotion</i>	147
0x50	<i>Advanced Frequent Shopper</i>	148
0x51	<i>Frequent Shopper Card</i>	149
0x54	<i>Retransmit</i>	150
0x55	<i>Vouchers</i>	151
0x56	<i>Info Store count</i>	152
0x57	<i>Info Credit/Debit Reentry</i>	153
0x58	<i>Info Saving Total</i>	154
0x59	<i>Savings Plus</i>	155
0x5A	<i>Info Smart Card 01 - ICC</i>	156
0x5B	<i>Info Smart Card 02 - Till</i>	157

0x5C	Info Smart Card 03 - Issuer	158
0x5D	Info Sales On Account.....	159
0x5E	Info Customer Survey Questions	160
0x5F	Transaction Info Voucher	161
0x61	Info Pre-payment	162
0x62	Info Charge FNB.....	163
0x63	Info Promotion Total Stub.....	164
0x64	Info Easy Shop Restricted Item	165
0x65	Community Partner.....	166
0x66	Info Automatic Refund	167
0x67	Info CCMS	168
0x68	Info Bonus Buy	169
0x69	Info Bonus Points Savings.....	170
0x6A	Info Black Box.....	171
0x6B	Balance Inquiry.....	172
0x6C	Black Box Data	174
0x70	Info EFT Nomad Media	175
0x71	Info EFT Nomad Print Slip.....	176
0x72	Info EFT Nomad Owner Name.....	177
0x73	Info Redemption Points	178
0x74	Info EFT Nomad Budget.....	179
0x75	Info EFT Nomad Cheque.....	180
0x77	Scanpoint Save Report.....	181
0x79	Smart Card Coupon.....	182
0x7A	Smart TV Card Data	184
0x7B	Gift Card Activation.....	185
0x80	EFT Finland (Request 1)	186
0x81	EFT Finland (Request 2)	187
0x82	EFT Finland (Response 1)	188
0x83	EFT Finland (Response 2)	189
0x84	Matthew Clubcard Trigger	190
0x85	CC OLA Message.....	191
0x86	Department Additional Data	192
0x87	Promotion Coupon Required.....	193
0x88	OLA Day Totals	194
0x89	Pump Totals.....	195
0x8A	Message 5 PLU	196

0x91	ROA Information	197
0x92	Card Deposit.....	198
0x93	Ticket Times	199
0x94	Ticket Exceptions	200
0xA0	EJ Bad Account	201
0xA1	EJ Price Inquiry	202
0xA2	EJ Info Control Check.....	203
0xA3	EJ Info Age ID.....	204
0xA4	Add Loss Report (Item On Sale)	205
0xB1	OLA Request	206
0xB2	CC OLA Response	207
0xB3	Topup Record.....	208
0xDC	Signature Capture Record - Header.....	209
0xDC	Signature Capture Record - Data.....	210
0xF7	StoreNext.....	211
0xFF	Information Tare	212
Opcode 63	Alerts	213
	General Alerts Structure	213
	Transaction Alert (general)	216
	Transaction QDX Error	217
	Unbalanced POS	218
	Program Version	219
	POST Version Alert.....	220
	File Refresh.....	221
	Alert Batch.....	223
	Package	224
	Alert CFM.....	225
	Disk Space Info.....	226
	Storeboard Message.....	227
	Code Distribution	228
Opcode 64	Printout	229
	Transaction Printout.....	229
Opcode 70	Sub-Opcodes: 0x01 to 0xFE	231
0x38	SEPS SNF Data	231
0x87	FSA.....	232
0x0C	Info MobileLime Data Loyalty – Loyalty Record.....	233
0x0C	Info MobileLime Data Loyalty – EFT record.....	234

0x0D	Info MobileLime Data Loyalty – Comments Header.....	235
0x0D	Info MobileLime Data Loyalty – Comments Data.....	236
0xC2	MTX Receipt Info.....	237
0xF0	Databar Coupon	238
0xF3	eWIC.....	242
0xF7	LaneHawk Manual Add Item	246
0xFA	LaneHawk Clear Item.....	247
0xFD	WIC CVV	248
0xFE	WIC CVV Tax Info	249
0x99	Transaction Info2 EBTWIC 01.....	250
0x99	Transaction Info2 EBTWIC 02.....	251
0x99	Transaction Info2 EBTWIC 06.....	252
0x99	Transaction Info2 EBTWIC 08.....	253
0x99	Transaction Info2 EBTWIC 09.....	254
0x99	Transaction Info2 EBTWIC 0A	255
0x99	Transaction Info2 EBTWIC 0B	256
0x99	Transaction Info2 EBTWIC 0C.....	257
0x99	Transaction Info2 EBTWIC 20.....	258
0x99	Transaction Info2 EBTWIC 99.....	260
B0	New Sequence Number	261

Transaction File

File Name	TRANSACTION.QDX
File Type	QuickDex FIFO file
Record Size	64
Flag Offset	63
File Size	Dependent on disk size.
Description	This file contains the POS transaction records information and is the main means of transferring information from the POS to the server. All events are recorded as transactions. Transactions can be generated by the PCs for cashier functions and inventory movement purposes. At the end of each transaction is a 20 byte tail, in the following format.

Transaction File, Tail Format

Bytes	Description	Contents
2	Not Used	
1	External Device POS No.	
1	Options:	bit 0 - 3 External device number bit 4 - Quick Till bit 5 - Docking Till bit 6 - Scanpoint Item Till bit 7 - Not Used
2	Ticket Number	
3	Date	6 Digits YYMMDD.
3	Time	6 Digits HHMMSS.
1	Options:	bit 0 - Return Ticket bit 1 - Training mode bit 2 - PC Generated bit 3 - POS Off-line bit 4 - Void Ticket bit 5 - Bad Record bit 6 - Coupon Ticket bit 7 - Wastage mode
2	Cashier number	
1	Pos number (Hex)	
2	Transaction sequential number	
1	1/2b TV# + 1/2b PC#(0 - 15)	
1	Not Used byte for QuickDex must be 0.	
20	Tail Total	

Opcodes: 01 to 56

0x01 Full Line Item Record

Bytes	Description	Contents
1	Op-code	01 - Full line item
7	Item Code	14 digits BCD
1	Flag1	bit 0 - Extension record exists bit 1 - Subtract bit 2 - Cancel bit 3 - Negative bit 4 - Was canceled bit 5 - Supplier promotion bit 6 - Staff discountable bit 7 - Accept price override
1	Flag2	bit 0 - Item on Sale bit 1 - Price Override bit 2 - Manual Price bit 3 - Manual Price allowed bit 4 - Weight from Scale bit 5 - Qty is Weight bit 6 - Qty is Decimal Qty bit 7 - Qty is Liter

1 Flag3

- bit 0 - Chained pre item
- bit 1 - Promotion
- bit 2 - Reduction
- bit 3 - Offer
- bit 4 - Non Merchandise
- bit 5 - Store Coupon
- bit 6 - Vendor Coupon
- bit 7 - Item Discount Flag

1 Flag4

- bit 0 - Scanned Item
- bit 1 - Read from PC
- bit 2 - Following transaction is
related to this
transaction
- bit 3 - Non-RX Healthcare item
- bit 4 - External Promotion
- bit 5 - Price embedded
- bit 6 - Fast Food. Drags
Modifier
- bit 7 - WIC CVV

1 Flag5

- bit 0 - Offer Discount
- bit 1 - Offer Continue
- bit 2 - Offer First
- bit 3 - Counter Department
- bit 4 - Return to Stock
- bit 5 - Cost Plus
- bit 6 - Freq. Shopper Discount
- bit 7 - FS Payment

2 Department number

1 MSU

1 Return type

1	Tax Pointer	
4	Qty	
4	Price	
4	Amount	
4	No Tax Price	
4	No Tax Amount	
4	Return Surcharge Percent	
1	Product Code	Not used
1	Other flags	
		bit 0 - Fast Food modifier price
		bit 1 - Markdown
		bit 2 - Member discount
		bit 3 - Bottle Deposit
		bit 4 - Bottle Refund
		bit 5 - RX Item
		bit 6 - Limited Quantity Promotion
		bit 7 - Reward Check
20	Tail	
64	Total	

0x02 Department Sale

Bytes	Description	Contents
1	Op-code	02 - Department sale
2	Department number	
1	Flag1	bit 0 - Extension record exists bit 1 - Subtract bit 2 - Cancel bit 3 - Negative bit 4 - Was Canceled bit 5 - Bottle Deposit bit 6 - Bottle Refund bit 7 - Not Used
1	Flag2	bit 0 - Not found sale bit 1 - Price Override bit 2 - Manual Price bit 3 - Manual Price allowed bit 4 - Weight from Scale bit 5 - Qty is Weight bit 6 - Qty is Decimal Qty bit 7 - Qty is Liters
1	Flag3	bit 0 - Chained pre item bit 1 - Cost Plus Department bit 2 - Promotion bit 3 - Non Merchandise bit 4 - Store Coupon bit 5 - Vendor Coupon bit 6 - Department Discount Flag

1	Flag4	bit 7 - FS Payment
		bit 0 - Cost Plus
		bit 1 - External Promotion
		bit 2 - Staff discountable
		bit 3 - Counter department
		bit 4 - Don't display weight and quantity
		bit 5 - Fee
		bit 6 - Refund department
		bit 7 - Furniture item sold
1	Return type	
1	Tax Pointer	
1	Product code (Tesco, taken from dept.)	
1	Pre Pay Pump Number	
4	Cancelled Pre Pay Sync Number	
1	Flags	bit 0 - Surcharge
		bit 1 - Delivery Charge
		bit 2 - Dept Sale Apportionment
		bit 3 - Charge Amount per Tax Calculation
		bit 4 - Promotion Markdown
		bit 5 - Rx Item
		bit 6 - Non Rx Healthcare Item
		bit 7 - WIC CVV
4	Qty	
4	Price	
4	Amount	
4	No Tax price	
4	No Tax amount	

4	At Qty (MSU sale)
4	Return Surcharge Percent
20	Tail
64	Total

0x03 Discount

Bytes	Description	Contents
1	Op-code	03 - Discount
7	Item Code	14 digits BCD
2	Department number	
1	Flag1	bit 0 - Info Transaction bit 1 - Non Merchandise bit 2 - Subtract bit 3 - Cancel bit 4 - Negative bit 5 - Upcharge bit 6 - Additive bit 7 - Promotion divide
1	Flag2	bit 0 - Manual bit 1 - Percent bit 2 - Cost Plus bit 3 - FS Payment bit 4 - Store Promotion bit 5 - Total Transaction Discount bit 6 - PLU Transaction Discount bit 7 - Department Transaction Discount

1	Flag3	bit 0 - Promotion bit 1 - Reduction bit 2 - Offer bit 3 - Multisaver bit 4 - Extended Promotion bit 5 - Not net promotion bit 6 - Member Discount bit 7 - Disc flag, used in prom
1	Discount type	
4	Percent	
1	Return Type	
1	Tax Pointer of discount item	
4	Qty	
4	Price	
4	Amount	
1	Flag4	bit 0 - Customer Account bit 1 - Tax Exempt bit 2 - Redemption Value bit 3 - Automatic Discount bit 4 - Delayed Promotion bit 5 - Report as tender bit 6 - Non Net F.S. Promo bit 7 - Not Used
1	Multiple selling unit (MSU)	
2	Tender	
4	No Tax amount	
4	Return Surcharge Percent	
20	Tail	
64	Total	

0x04 Media

Bytes	Description	Contents
1	Op-code	04 - Media
2	Media Number	
1	Flag1	bit 0 - Change bit 1 - Rounding bit 2 - Subtract bit 3 - Cancel bit 4 - Was Canceled bit 5 - Return bit 6 - Given as reward remption bit 7 - Tender Purchase
1	Flag2	bit 0 - Multi part receipt bit 1 - Confirm signature bit 2 - Charge Posting bit 3 - ECCA bit 4 - ECCA defined bit 5 - Issue number Used bit 6 - Accept Issue Date bit 7 - Accept Exp. Date
1	Flag3	bit 0 - MCR Used bit 1 - Authorization checked bit 2 - Not Authorized bit 3 - Account bit 4 - EFT print data bit 5 - Acc auth Alpha bit 6 - Not Used bit 7 - Accept auth number

1 Flag4

bit 0 - Next Car Info
 bit 1 - Buyaid
 bit 2 - ECCA New
 bit 3 - EFT Authorization
 bit 4 - Coupon sale
 bit 5 - Next cheque guarantee
 bit 6 - Cashback
 bit 7 - Reverse Balancing

1 Type

4 Amount

4 Foreign Amount

4 Foreign Rate

2 Issue Date

10 Account number

2 State Code

2 Exp Date

4 Auth Number

1 Card Range Number

1 Flag5

bits 0-4 Account length
 bit 5 - Deposit to
 bit 6 - Deposit from
 bit 7 - Credit Correction

1 Issue Number

1 Count

20 Tail

64 Total

0x05 Ticket Total

Bytes	Description	Contents
1	Op-code	05 - Ticket Total
1	Flag1	bit 0 - Ticket Total bit 1 - Void Ticket bit 2 - Save Ticket bit 3 - Recall Transaction bit 4 - Drive-off (Garage) bit 5 - Quick Store (Quick) bit 6 - Info. to update PC with POST G.T. bit 7 - Tender Purchase
1	Flag2	bit 0 - Coupon Ticket bit 1 - Tender Ticket bit 2 - IH Payment bit 3 - IH Purchase bit 4 - Send to email bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
2	Ticket Number	
4	Tax Value	
2	Number of items	
4	Amount	
4	Discount	
4	Net Amount	
4	Net Discount	
6	Grand Total	

1	Return Type
4	Food Stamp Real Payment
4	Amount without electronic coupons
2	Not used
20	Tail
64	Total

0x06 Tax

Bytes	Description	Contents
1	Op-code	06 - Tax
1	Tax number	
4	Taxable amount	
4	Tax Amount	
1	Flag1	bit 0 - Exemptable bit 1 - Tax Included bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
10	Tax Exempt Number	
4	Food Stamp Forgive Taxable	
4	Food Stamp Forgive Tax	
4	No Tax Amount	
4	Tax Refund Amount	
7	Not Used	
20	Tail	
64	Total	

0x07 Float

Bytes	Description	Contents
1	Op-code	07 - Float
1	Function	01 - Opening Float 02 - Add on Float 03 - POST add on float
4	Amount	
2	Count	
1	Tender Number	
4	Total	
1	PC generated options	bit 0 - Previous period bit 1 - Don't update Employee record bit 2 - Remote bit 3 - Amount (int 64) bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
1	PC_no	
1	POS_no	
4	Supervisor number	
4	Safe number	
8	Amount 2	
4	Carry Over Amount	
2	Carry Over Count	
6	Not used	
20	Tail	
64	Total	

0x08 Coupon

Bytes	Description	Contents
1	Op-code	08 - Coupon
1	Flag1	bit 0 - Subtract bit 1 - Cancel bit 2 - Suppress Bonus Coupon bit 3 - Ext coupon information bit 4 - Department net bit 5 - Bonus coupon followed bit 6 - Cost Plus bit 7 - Chained Previous Item
1	Flag2	bit 0 - Store Coupon bit 1 - Vendor Coupon bit 2 - Bonus Coupon bit 3 - UPC5 Coupon bit 4 - FS Payment bit 5 - Discount Allowed bit 6 - Manual entered amount bit 7 - Manual entered department
4	Qty	
4	Amount	
2	Tender Number	
1	Tender Type	
2	Coupon Department	
7	Coupon Code	
16	Coupon Name	
1	Tax Pointer	

2	Minimum Qty
2	Plus Amount
20	Tail
64	Total

0x09 Cash Lift

Bytes	Description	Contents
1	Op-code	09 - Cash Lift
1	Function	01 - Regular 02 - POST pickup
4	Amount	
2	Count	
1	Tender Number	
4	Not Used	
1	PC generated options	bit 0 - Previous period bit 1 - Don't update employee record bit 3 - Reprocess bit 4 - Remote bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
1	POS_no	
1	PC_no	
4	Supervisor number for pickup	
2	Cashier Number	
22	Not used	
20	Tail	
64	Total	

0x0A Cashier Times

Bytes	Description	Contents
1	Op-code	0A - Cashier Times
1	Pos Mode	
2	Total Item Registration Time	
2	Total Idle Time	
2	Total Secure Time	
2	Total Tender Time	
2	Total Wait Time	
2	Total Inquiry Time	
2	Total Other Time	
1	Flag 1	bit 0 - Quarter-hour bit 1 - Sign off bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Express Order
2	Item Registration Time	
2	Idle Time	
2	Secure Time	
2	Tender Time	
2	Wait Time	
2	Inquiry Time	
2	Other Time	
2	Sign on time	
2	Delta sign on time	

4	Maintenance Received Statistics 1
4	Maintenance Received Statistics 2
1	Local Maintenance Records
20	Tail
64	Total

0x0B Cashier Declaration

Bytes	Description	Contents
1	Op-code	0B - Cashier declaration
1	Function	01 - Regular 02 - POST declaration 10 - Safe declaration
4	Amount	
2	Count	
1	Tender Number	
4	Total	
1	PC generated options	bit 0 - Previous period bit 1 - Don't update employee record bit 2 - Reprocess bit 3 - Additive bit 4 - Remote bit 5 - Not Used bit 6 - Not Used bit 7 - Info
4	Amount this time	
2	Count this time	
1	POS number	For POS Accountability
2	Cashier number	
21	Not used	
20	Tail	
64	Total	

0x10 Non-Scanned Department

Bytes	Description	Contents
1	Op-code department	10 - Non-scanned
2	Department	
1	Option	Not used
1	Option1	Not used
1	Till number	
1	Product code	
4	Amount	
33	Not Used	
20	Tail	
64	Total	

0x11 PLU Sale Extension Record

Bytes	Description	Contents
1	Op-code record	11 - PLU Sale extension
7	PLU code (BCD)	
1	Flag1	bit 0 - Pump test bit 1 - Fuel Transaction bit 2 - Recalled Transaction bit 3 - Drive Off bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
1	Flag2	bit 0 - CS Tax Comb. COFFEE CR64 bit 1 - Not Used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - LaneHawk Item bit 7 - Not Used
1	Pump	
1	Fuel Grade	
4	Pump Transaction Number	
1	Nozzle	
4	Quantity	
4	Price	
4	Amount	

4	Fuel Display Price
11	Not used
20	Tail
64	Total

0x12 Department Sale Extension Record

Bytes	Description	Contents
1	Op-code extenuation record	12 - Department Sale
2	Department number	
1	Flag1	bit 0 - Pump test bit 1 - Fuel Transaction bit 2 - Recalled Transaction bit 3 - Current Transaction bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
1	Flag2	bit 0 - Not Used bit 1 - Not Used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
1	Pump number	
1	Fuel Grade	
4	POS Pump Transaction Number	
1	Nozzle	
4	Quantity	
4	Price	
4	Amount	

4	Fuel Display Price (3 decimal digits)
16	Not used
20	Tail
64	Total

0x14 Media Extension Record

Bytes	Description	Contents
1	Op-code	14 - Media extension record
2	Number	
1	Fee type	
1	Table number	
1	Flag 1	bit 0 - Tender_req_add_fee bit 1 - Fee tender bit 2 - Payment is change bit 3 - MICR used bit 4 - WIC Tax Exempt bit 5 - Tender Correction bit 6 - Duplicate Receipt bit 7 - Not Used
21	Extension description	
9	Bank Account	
6	Check Number	
1	Flag 2	bit 0 - Deposit bit 1 - Withdrawal bit 2 - Coupon Coin Sale bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
1	Not used	
20	Tail	
64	Total	

0x15 Media Extension Record 2

Bytes	Description	Contents
1	Op-code	15 - Media extension record 2
11	EFT Reference Number	
1	Flags	bit 0 - Enhanced MPR Voucher print bit 1 - Print Cash Balance bit 2 - Print Foodstamps Balance bit 3 - Void Tender Not Allowed bit 4 - Media Extension 3 bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
2	EFT Tender Number	
8	Settlement Date	
1	Card Type	
2	Account Type	
2	Transaction Type	
5	Sequence Number	
11	EBT Voucher Number	
20	Tail	
64	Total	

0x16 Payout/Receipt Record

This is logged at payouts and receipts.

Bytes	Description	Contents
1	Op-code	16 - Payout/Receipts
1	Expense code	
10	Expense reference	10 digits ALPHANUM
4	Expense amount	
1	Tender number	For future use
1	Flags	bit 0 - POS accountability bit 1 - Reprocess bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Payout bit 7 - Receipt
4	Expense Code	Back office use
4	VAT Amount	
18	Not used	
20	Tail	
64	Total	

0x17 Information T7E

EFT for Philippines.

Bytes	Description	Contents
1	Op-code	17 - Trans Info T7E
6	Invoice Number	
1	Err t7e Number	
		1 - T7 of-line (sale)
		2 - T7 of-line (void)
		3 - Bank of-line (sale)
		4 - Bank of-line (void)
2	Tender Number	
6	Approval Code	
4	Ticket Amount	
4	Amount	
1	Flags	
		bit 0 - Void without invoice
		bit 1 - Cancel_subtract_eft_t7e
		bit 2 - Non EDC
		bit 3 - Post void transaction
		bit 4 - Save transaction t7
		bit 5 - Not Used
		bit 6 - Not Used
		bit 7 - Not Used
1	cc_t7	
2	err_comm_t7	
2	Response Code	
14	Not used	
20	Tail	
64	Total	

0x18 Media Extension 3

Bytes	Description	Contents
1	Op-code	18 - Media extension record 3
11	EBT Gen Number	
26	EBT Case Number	
1	Flags	bit 0 - Signature Capture Failed bit 1 - ECC in Sequence bit 2 - Fleet Card bit 3 - Media Extension 4 bit 4 - EFT Card Data Is Masked bit 5 - ECC Tender bit 6 - Biometrics EFT Transaction Flag bit 7 - Media Extension 5
5	Not used	
20	Tail	
64	Total	

0x20 Log Function

Bytes	Description	Contents
1	Op-code	20 - Log Function
1	Function	01 - Power Up 02 - Store Open 03 - Store close (EOD) 04 - Automatic Recover Ticket 05 - Manual Recover Ticket 11 - Sign On 12 - Sign Off 13 - Enter Secure mode 14 - Exit Secure mode 15 - Enter Wait mode 16 - Exit Wait mode 17 - Enter Training mode 18 - Exit Training mode 19 - Password Change 20 - Cashier Locking (zero cashier totals) 21 - Transfer current shift to previous 22 - X Read 23 - POS Report 24 - POS total to previous, zero current 25 - Not Used for PC use 26 - Start special printout 27 - End special printout 28 - Store board message 29 - START Reorg print

30 - END Reorg print

99 - PC Start of Day

2 Cashier number

2 Secret number

1 Flag1

bit 0 - Off-line exe

bit 1 - Remote command

bit 2 - Reprocess

bit 3 - Not Used

bit 4 - Not Used

bit 5 - Not Used

bit 6 - Not Used

bit 7 - End of Period

1 POS Status

bit 0 - Cold Stand by

bit 1 - Stand by

bit 2 - Idle

bit 3 - No Sale

bit 4 - Sale

bit 5 - Tender

bit 6 - Idle Stand by 1

bit 7 - Idle Stand by 2

2 Ticket Number

2 Old Password

2 New Password

1 POS number

2 Used Drawer 1

2 Used Drawer 2

21 Text

1 Cashier message number

1 Flag 2

bit 0 - Reset message

bit 1 - Set message

bit 2 - Not Used

bit 3 - Not Used

bit 4 - Not Used

bit 5 - Not Used

bit 6 - Not Used

bit 7 - Not Used

2 Code

20 Tail

64 Total

0x21 Ticket Frame

Bytes	Description	Contents
1	Op-code	21 - Ticket Frame
1	Flag1	bit 0 - Start bit 1 - No Sale bit 2 - Negative bit 3 - EOD process bit 4 - Save Transaction bit 5 - Recall Transaction bit 6 - Void transaction bit 7 - Tender Purchase
1	Flag2	bit 0 - Factura Ticket bit 1 - WIC Ticket bit 2 - Frequent Shopper bit 3 - Charge Payment bit 4 - Reverse Payment bit 5 - Confirm price bit 6 - Give Cash only bit 7 - Multi Tender allowed
1	Return Type	
2	Ticket number	
2	Void Ticket number	
2	Recall Ticket number	
2	Factura number	
15	Factura ID	
1	WIC Exp. Day	
1	WIC Exp. Month	
2	WIC Exp. Year	
4	WIC Amount	

3	Store number	
1	Recall POS number	
1	Garage flags	bit 0 - Drive off balancing ticket bit 1 - Customer to pay bit 2 - Drive Off bit 3 - Fuel Test bit 4 - Family-favorite choices bit 5 - Store count bit 6 - Eat in bit 7 - Take away
1	Stutt flags payment	bit 0 - Account cheque bit 1 - Charge enquiry bit 2 - Account payment bit 3 - Account fast payment bit 4 - Credit reentry bit 5 - Easyshop Ticket bit 6 - Cash Deposit Withdrawal bit 7 - Express Order
1	Other flags	bit 0 - WIC issue date bit 1 - Coupon Ticket bit 2 - Home Shopping bit 3 - Tender Ticket bit 4 - IH Payment bit 5 - IH Purchase bit 6 - Cash Purchase bit 7 - Deposit Ticket
1	Home shopping origin number	
1	Scanpoint flags	

bit 0 - Opt esep ticket
bit 1 - Opt esep ticket
bit 2 - Opt esep ticket
bit 3 - Charge post. at
beginning of ticket
bit 4 - Not Used
bit 5 - Not Used
bit 6 - Not Used
bit 7 - Not Used

20 Tail
64 Total

0x24 Media UK Ext

Bytes	Description	Contents
1	Op-code	24 - Media UK Ext
2	Number	
1	Flags	bit 0 - ICC used bit 1 - Not Used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
40	Not used	
20	Tail	
64	Total	

0x26 Media Extension 5

Bytes	Description	Contents
1	Op-code	26 - Media Extension 5
6	PO Number	
1	PO Number Length	
4	RX Tender Amount	
4	Non RX Tender Amount	
27	Not Used	
1	Flags	bit 0 - Media Ext 6 bit 1 - Opt FSA Tender bit 2 - Opt MTX Receipts Retrieved bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Signature Capture In Sequence bit 7 - Not Used
20	Tail	
64	Total	

0x56 Cash Office

Bytes	Description	Contents
1	Op-code	56- Cash Office
1	Function locking	00 - Cashier/POS Safe
		01 - Deposit
		02 - Receipt
		03 - Tender Exchange
		04 - Tender Exchange
		05 - New Safe
4	Amount	
2	Count	
1	Tender	
1	Flag1	bit 0 - Lock Cashier
		bit 1 - Lock PoS
		bit 2 - Lock Safe
		bit 3 - Reprocess
		bit 4 - Update Safe
		bit 5 - Previous Period
		bit 6 - Header
		bit 7 - Info
2	Cashier/PoS Number	
1	PC Number	
2	Bank ID	
16	Reference	
13	Not Used	
20	Tail	
64	Total	

0x68 Zip Printout

Bytes	Description	Contents
1	Op-code	68- Zip Printout
1	Bytes	
42	Data	
20	Tail	
64	Total	

0xFD Gift Card Extension Media

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	FD - Gift Card Act Ext.
10	Template	
1	Activation Type	
20	Barcode Description	
5	Sequence Number	
4	Index	
1	Flag	bit 0 - Delayed Card activated bit 1 - Gift Card Activation Declined bit 2 - MTX Receipts Received bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
1	Filler	
20	Tail	
64	Total	

Opcode 60, Sub-opcodes: 0x01 to 0xB3

0x01 Item Not Found

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	01 - Item Not Found
7	PLU Number	
1	Flag1	bit 0 - Scanned Item bit 1 - Inquiry bit 2 - Info bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
34	Not used	
20	Tail	
64	Total	

0x02 EFT Comm. Fail

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	02 - EFT Comm. Fail
1	Options	00 - End Request
		01 - Fail clear input
		02 - Time-out on Ticket ACK
		03 - NAK on first req.
		04 - Not ACK on first req.
		05 - Big time-out
		06 - Time-out between message chars
		07 - More than 1000 chars
		08 - Got bad LRC
		09 - General
		10 - Got more than buffer can hold
1	EFT Return Code	
4	Amount	
2	Tender Number	
10	Account	
3	Start Time	
21	Not used	
20	Tail	
64	Total	

0x03 Birthday

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	03 - Birthday
1	Age	
1	Day	
1	Month	
2	Year	
1	Flag	
		bit 0 - DOB obtained by PBT
		bit 1 - Not Used
		bit 2 - Not Used
		bit 3 - Not Used
		bit 4 - Not Used
		bit 5 - Not Used
		bit 6 - Not Used
		bit 7 - Not Used
36	Not used	
20	Tail	
64	Total	

0x04 Tax Exempt

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	04 - Tax Exempt
1	Options	00 - Stop 01 - Start
19	Exempt Number	
1	All Tax	Tax exempt for all taxes.
8	Tax	Allows to specify exempt tax.
1	Flag1	bit 0 - WIC Tax Exempt bit 1 - Not Used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
12	Not used	
20	Tail	
64	Total	

0x05 Car

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	05 - Car
1	Flag1	bit 0 - Registration Number bit 1 - Mileage bit 2 - CVD bit 3 - Range bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
11	Registration Number	
11	Mileage	
1	CVD	
5	Range	
13	Not used	
20	Tail	
Total	64	

0x06 Checksum

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	06 - Checksum
1	Flag1	bit 0 - No checksum performed bit 1 - Ignore PLU Maintenance bit 2 - Ignore BROM Maintenance bit 3 - PLU checksum failed bit 4 - BROM checksum failed bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
4	POST PLU Count	
4	POST PLU Checksum	
4	POST BROM Count	
4	POST BROM Checksum	
4	PC PLU Count	
4	PC PLU Checksum	
4	PC BROM Count	
4	PC BROM Checksum	
9	Not used	
20	Tail	
Total	64	

0x07 Background Load

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	07 - Background load
1	Flag1	bit 0 - Start PLU load bit 1 - Stop PLU load bit 2 - Start BROM load bit 3 - Stop BROM load bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
2	New items	
2	Updated items	
2	Deleted items	
2	Errors	
33	Not used	
20	Tail	
Total	64	

0x08 Account

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	08 - Account
2	Tender number	
1	Type	
21	Account number	
9	Authorization number	
9	Print Authorization number	
20	Tail	
64	Total	

0x09 Bagger ID

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	09 - Bagger ID
11	Bagger ID	
31	Not used	
20	Tail	
64	Total	

0x0A Charge Posting

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	0A - Charge posting
16	cp_name	
12	cp_account_num	
1	cp_status	
4	cp_amount	
4	cp_balance	
4	cp_limit	
1	cp_upcharge	
20	Tail	
64	Total	

0x0B Expense

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	0B - Expense
1	Flag1	bit 0 - Start bit 1 - Not Used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
4	New Percent	
4	Old Percent	
33	Not Used	
20	Tail	
64	Total	

0x0C Cost Percent

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	0C - Cost percent
1	Flag1	bit 0 - Start bit 1 - Not Used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
4	New Percent	
4	Old Percent	
33	Not Used	
20	Tail	
64	Total	

0x0D Supervisor

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	0D - Supervisor
1	Flag1	bit 0 - Scan Card bit 1 - Approved by RPO bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
4	Supervisor ID	
1	Privilege	
1	Keylock	
35	Not Used	
20	Tail	
64	Total	

0x0E Buyaid

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	0E - Buyaid
1	Flag1	
		bit 0 - Not Used
		bit 1 - Not Used
		bit 2 - Not Used
		bit 3 - Not Used
		bit 4 - Not Used
		bit 5 - Not Used
		bit 6 - Not Used
		bit 7 - Not Used
2	Buyaid Number	
4	Amount	
4	Voucher Number	
20	Account	
11	Not Used	
20	Tail	
64	Total	

0x0F Staff Discount

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	0F - Staff Discount
1	Flag1	bit 0 - Expected is declared bit 1 - Not Used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
11	Staff Number (ASCII null terminated)	
4	Discount Amount	
2	Discount Number	
4	Discount Percent	
2	Tender number	
18	Not Used	
20	Tail	
64	Total	

0x10 ECCA 1

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	10 - ECCA
1	Sub Function	1 - Name (20)
10	Account	
1	Flag1	
		bit 0 - New EC
		bit 1 - Not Used
		bit 2 - Not Used
		bit 3 - Not Used
		bit 4 - Not Used
		bit 5 - Not Used
		bit 6 - Not Used
		bit 7 - Not Used
20	Name	
10	Not Used	
20	Tail	
64	Total	

0x10 ECCA 2

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	10 - ECCA
1	Sub Function	2 - Address (30)
10	Account	
1	Flag1	bit 0 - New EC bit 1 - Not Used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
30	Address	
20	Tail	
64	Total	

0x10 ECCA 3

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	10 - ECCA
1	Sub Function	3 - Telephone (10)
10	Account	
1	Flag1	bit 0 - New EC bit 1 - Not Used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
10	Telephone	
20	Not Used	
20	Tail	
64	Total	

0x11 Customer Information 1

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	11 - Customer Information
1	Sub Function	1 - Name (40)
1	Flag1	bit 0 - First bit 1 - Last bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
40	Name	
20	Tail	
64	Total	

0x11 Customer Information 2

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	11 - Customer Information
1	Sub Function	2 - Address 1 (40)
1	Flag1	bit 0 - Not Used bit 1 - Not Used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
40	Address 1	
20	Tail	
64	Total	

0x11 Customer Information 3

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	11 - Customer Information
1	Sub Function	3 - Address 2 (40)
1	Flag1	
		bit 0 - Not Used
		bit 1 - Not Used
		bit 2 - Not Used
		bit 3 - Not Used
		bit 4 - Not Used
		bit 5 - Not Used
		bit 6 - Not Used
		bit 7 - Not Used
40	Address 2	
20	Tail	
64	Total	

0x11 Customer Information 4

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	11 - Customer Information.
1	Sub Function	4 - Address 3 (40)
1	Flag1	bit 0 - Not Used bit 1 - Not Used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
40	Address 3	
20	Tail	
64	Total	

0x11 Customer Information 5

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	11 - Customer Information
1	Sub Function	5 - Telephone (20)
1	Flag1	
		bit 0 - Not Used
		bit 1 - Not Used
		bit 2 - Not Used
		bit 3 - Not Used
		bit 4 - Not Used
		bit 5 - Not Used
		bit 6 - Not Used
		bit 7 - Not Used
20	Telephone	
20	Not Used	
20	Tail	
64	Total	

0x13 SKU

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	13 - SKU
1	Flag1	
		bit 0 - Not Used
		bit 1 - Not Used
		bit 2 - Not Used
		bit 3 - Not Used
		bit 4 - Not Used
		bit 5 - Not Used
		bit 6 - Not Used
		bit 7 - Not Used
11	SKU	
11	PLU Code	
4	Price Old	
4	Price New	
11	Not Used	
20	Tail	
64	Total	

0x14 Price Override

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	14 - Price Override
1	Flag1	bit 0 - Markdown bit 1 - Not Used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
4	Original price	
4	Reduced price	
4	Qty	
4	Different price	
7	Code	
1	Type	
1	Reason number	
4	Filler	
4	Original Amount	
8	Not Used	
20	Tail	
64	Total	

0x15 Cheque Guarantee

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	15 - Cheque Guarantee
1	Flag1	bit 0 - Issue not used bit 1 - Accept issue date bit 2 - Accept Exp. date bit 3 - MCR used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
10	Cheque guarantee card	
1	Guarantee card length	
2	Issue date	
2	Exp. date	
1	Card range number	
1	Issue number	
1	Auth card range number	
23	Not Used	
20	Tail	
64	Total	

0x16 Drive Off

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	16 - Drive off
1	Flag1	bit 0 - Ctp bit 1 - Not Used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
11	Registration number	
20	Surname	
5	Car Make	
2	Car Year	
3	Car Color	
20	Tail	
64	Total	

0x17 Bad Accounts

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	17 - Bad account
1	Type	0 - Bad account 1 Enhanced 3 ECCA
10	Account number	
1	Len	
30	Not Used	
20	Tail	
64	Total	

0x18 Reprint Ticket Request

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	18 - Reprint ticket request
1	Flag1	
		bit 0 - Not Used
		bit 1 - Not Used
		bit 2 - Not Used
		bit 3 - Not Used
		bit 4 - Not Used
		bit 5 - Not Used
		bit 6 - Not Used
		bit 7 - Not Used
1	POS	
2	Receipt Number	
38	Not Used	
20	Tail	
64	Total	

0x19 Assistant

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	19 - Assistant
1	Flag1	
		bit 0 - Not Used
		bit 1 - Not Used
		bit 2 - Not Used
		bit 3 - Not Used
		bit 4 - Not Used
		bit 5 - Not Used
		bit 6 - Not Used
		bit 7 - Not Used
16	Assistant (ASCII null terminated)	
6	Assistant (BCD up to 12 digits)	
19	Assistant Name	
20	Tail	
64	Total	

0x1A Promotion Information

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	1A - Promotion Information
1	Flag1	bit 0 - Promotion bit 1 - Not Used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
1	Promotion type	
1	Extended promotion type	
1	Department extended promotion type	
7	Code	
2	Promotion number	
1	Bucket number	
2	External promotion number	
1	External bucket number	
1	Department ext promotion number	
2	Department ext bucket number	
1	Reward type	
1	Extended reward type	
1	Department extended reward type	
4	Attached Total	
6	Attached Bucket	
4	Promotion Number	

5	Not Used
20	Tail
64	Total

0x1B Clubcard

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	1B - Club Card
1	Flag1	bit 0 - Card was accepted bit 1 - Card was voided bit 2 - MCR used bit 3 - Staff discount card bit 4 - Qualify spend information bit 5 - CC Re-entry bit 6 - Frequent Shopper accepted bit 7 - Frequent Shopper rejected
1	Scheme Number	
20	Card Number in ASCII	Null terminated
2	Tender Number	
1	Customer type	
4	Customer Points to date	
4	Customer Redemption Value	
3	Customer Update Date	
1	Customer Message	
4	Qualify spent	
1	Staff tender number	
20	Tail	
64	Total	

0x1C Points

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	1C - Points
1	Flag1	bit 0 - Information only bit 1 - CC Re-entry bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
1	Scheme Number	
2	Promotion number	
20	Card Number	
4	Qualify Spent	
4	Pointable Value	
4	Points	
4	Bonus Points	
2	Promotion Number	
20	Tail	
64	Total	

0x1D Track			
Bytes	Description	Contents	
1	Op-code	60 -	Log information
1	Function	1D -	Track
1	Flag1		
		bit 0 -	First
		bit 1 -	Last
		bit 2 -	Not Used
		bit 3 -	Not Used
		bit 4 -	Not Used
		bit 5 -	Not Used
		bit 6 -	Not Used
		bit 7 -	Continuation
1	Track Number		
40	Track Data		
20	Tail		
64	Total		

0x1E Cash in Drawer

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	1E - Cash in drawer
1	Flag1	
		bit 0 - Too much
		bit 1 - Not enough
		bit 2 - Not Used
		bit 3 - Not Used
		bit 4 - Not Used
		bit 5 - Not Used
		bit 6 - Not Used
		bit 7 - Not Used
41	Data	
20	Tail	
64	Total	

0x1F Wrong Password

Bytes	Description	Contents	
1	Op-code	60 -	Log information
1	Function	1F -	Wrong password
1	Mode		
		1	At sign-on
		2	At sign-off
2	Cashier number		
2	Password		
37	Data		
20	Tail		
64	Total		

0x20 Frequent Shopper

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	20 - Freq. Shopper
7	Code	
1	Flag1	
		bit 0 - Reward Check Used
		bit 1 - Opt Not Net F.S.
		bit 2 - Not Used
		bit 3 - Not Used
		bit 4 - Not Used
		bit 5 - Not Used
		bit 6 - Not Used
		bit 7 - Not Used
4	Old price	
4	New price	
4	Qty	
4	Save amount	
2	Short Department	
16	Not used	
20	Tail	
64	Total	

0x21 Unlock Update

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	21 - Unlock update
1	Flag1	bit 0 - Add value bit 1 - Write value bit 2 - Unlock bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
1	Q_Dex file	
12	Index	
2	Value offset	
4	Value	
2	Unlock offset	
20	Not used	
20	Tail	
64	Total	

0x22 Redemption

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	22 - Redemption
1	Flag1	bit 0 - Not Used bit 1 - Not Used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
1	Scheme number	
20	Card number	
1	Customer type	
4	Customer redemption value	
4	Customer redemption used	
11	Not used	
20	Tail	
64	Total	

0x23 APAC

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	23 - APAC
1	Flag1	bit 0 - First bit 1 - All Depts. bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
20	Dept Used	
21	Not used	
20	Tail	
64	Total	

0x24 Alerts Test

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	24 - Alerts test
2	Flag1	bit 0 - Bad Signature bit 1 - Force Accept bit 2 - POS Line Switch bit 3 - PC Request out of Range bit 4 - Retransmit bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used bit 8 - Not Used bit 9 - Not Used bit 10 - Not Used bit 11 - Not Used bit 12 - Not Used bit 13 - Not Used bit 14 - Not Used bit 15 - Not Used
2	POS	
4	Expected_seq_num	
4	Rcvd_seq_num	
4	Rejected_seq_num	
26	Not Used	
20	Tail	
64	Total	

0x26 Total Key			
Bytes	Description	Contents	
1	Op-code	60 -	Log information
1	Function	26 -	Total key
42	Not used		
20	Tail		
64	Total		

0x27 Extra Card Info

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	27 - Extra card info
1	Flag1	bit 0 - Funds Guarantee bit 1 - Home Shopping bit 2 - Credit Card bit 3 - Debit Card bit 4 - Smart Card bit 5 - Smart Card Track2 bit 6 - T7 EFT bit 7 - Not Used
3	Voucher time	
1	Tender EFT group	
15	Merchant number	
1	Sponsor number	
4	Cash back	
6	Branch	Branch number, null terminated
2	Credit reentry receipt	
2	Credit reentry sequence number	
1	Smart Card PoS Entry mode	
2	Smart Card auth_resp_code	
4	Not used	
20	Tail	
64	Total	

0x28 OLA Result

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	28 - Transaction OLA
1	Sub function	0x00
1	Flag1	bit 0 - Card Accepted bit 1 - Hot Card bit 2 - Guaranteed bit 3 - Not Guaranteed bit 4 - Referral bit 5 - Extra ID bit 6 - Extra Transaction bit 7 - Not Used
4	Message number	
1	Card type	
1	Trans type	
1	Auth type	
1	Auth reason	
2	Answer RTC	0 - OK 1-10 - Host Answer 1 - Bad 6 - Timeout
10	Authorization Code	
1	Confirm Code	
10	Account	BCD up to 19 digits
1	Account Length	
4	Amount	
3	Reserved	

1	Pump
20	Tail
64	Total

0x28 OLA Request 01

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	28 - Transaction OLA
1	Sub function	0x01
1	Flag1	bit 0 - Open comm failed bit 1 - Tx failed bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
4	Message number	
24	Card data	
1	Card type	
1	Trans type	
1	Auth type	
1	Auth reason	
4	Request amount	Amount & Cash Back
3	Not Used	
1	Pump number	
20	Tail	
64	Total	

0x28 OLA Ack 02

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	28 - Transaction OLA
1	Sub function	0x02
1	Flag1	
		bit 0 - Timeout
		bit 1 - Message rejected
		bit 2 - Ack rejected
		bit 3 - Not Used
		bit 4 - Not Used
		bit 5 - Not Used
		bit 6 - Not Used
		bit 7 - Not Used
4	ACK message number	
4	Timeout value	
2	ACK return code	
29	Not Used	
1	Pump number	
20	Tail	
64	Total	

0x28 OLA Answer 03

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	28 - Transaction OLA
1	Sub function	0x03
1	Flag1	bit 0 - Timeout bit 1 - Message rejected bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
4	Answer message number	
4	Timeout value	
1	Message type	
1	Confirm code	
2	Answer return code	
10	Auth code	
2	Not used	
4	Club_plus_bal	
6	Club_plus_date	
5	Not Used	
1	Pump number	
20	Tail	
64	Total	

0x28 OLA Free 04

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	28 - Transaction OLA
1	Sub function	0x04
1	Flag1	
		bit 0 - With Confirm
		bit 1 - Not Used
		bit 2 - Not Used
		bit 3 - Not Used
		bit 4 - Not Used
		bit 5 - Not Used
		bit 6 - Not Used
		bit 7 - Not Used
4	Confirm message number	
1	Confirm code	
10	Auth code	
24	Not Used	
1	Pump number	
20	Tail	
64	Total	

0x28 OLA Results Extra 05

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	28 - Transaction OLA
1	Sub function	0x05 OLA Results Extra
4	Message Number	
2	Answer RTC	0 - OK 1-10 - Host Answer 1 - Bad 6 - Timeout
20	Message from authorizer	
3	Date	BCD YMD
3	Time	BCD HMS
9	Not Used	
20	Tail	
64	Total	

0x28 OLA Result 00

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	28 - Transaction OLA
1	Sub function	0x00
1	Flag1	bit 0 - Card accepted bit 1 - Hot card bit 2 - Guaranteed bit 3 - Not guaranteed bit 4 - Referral bit 5 - Extra ID bit 6 - Extra Transaction bit 7 - Not Used
4	Message number	
1	Card type	
1	Trans type	
1	Auth type	
1	Auth reason	
2	Return code	
10	Auth code	
1	Confirm code	
10	Account (BCD up to 19 digits)	
1	Account Length	
4	Amount	
3	Not Used	
1	Pump number	
20	Tail	
64	Total	

0x28 Club Card Request 11

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	28 - Club Card Answer Start
1	Sub function	0x11
1	Flag1	bit 0 - Open Com Failed bit 1 - Tx Failed bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
4	Message Number	
10	Card Data	BCD up to 19 digits
1	Card Data Length	
1	Transaction Type	
24	Not Used	
20	Tail	
64	Total	

0x28 Club Card Answer Start 12

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	28 - Club Card Answer Start
1	Sub function	0x12
1	Flag1	bit 0 - Timeout bit 1 - Message Rejected bit 2 - ER available flag bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
2	Request Message Number	
2	Answer Message Number	
20	Family Favorite Choice	
1	Customer Type	
4	Accumulated Points	
4	Redemption Value	
2	Operator Message Number	
3	Customer Update Date	
2	Not Used	
20	Tail	
64	Total	

0x28 Club Card Answer Continued 13

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	28 - CC Answer Continued
1	Sub function	0x13
5	Promotion Message	
20	Promotion Points	
4	Redemption Threshold	
4	Redemption Step	
4	Second Current Balance	
4	Not Used	
20	Tail	
64	Total	

0x28 Club Card End Of Ticket 14

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	28 - CC End Of Ticket
1	Sub function	0x14
1	Flag1	bit 0 - Open Com Failed bit 1 - Tx Failed bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
4	Message Number	
36	Not Used	
20	Tail	
64	Total	

0x28 Hungary OLA Results 30

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	28 - Transaction OLA
1	Sub function	0x30 Hungary OLA Results
1	Flag1	bit 0 - Card Accepted bit 1 - Not Used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
4	Message number	
1	Not Used	
1	Transaction Type	
1	Authorization Type	
1	Not Used	
2	Answer RTC	0 - OK 1-10 - Host Answer 1 - Bad 6 - Timeout
10	Authorization Code	
1	Not Used	
10	Account (BCD up to 19 digits)	
1	Account Length	
4	Amount	
3	Response Code	

1	Not Used
20	Tail
64	Total

0x28 Hungary OLA Request 31

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	28 - Transaction OLA
1	Sub function	0x31 Hungary OLA Results
1	Flag1	bit 0 - Not Used bit 1 - Tx Failed bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
4	Message number	
24	Card Data	
1	Transaction Type	
1	Authorization Type	
4	Request Amount	Amount & Cash Back
6	Not Used	
20	Tail	
64	Total	

0x28 OLA Abort 99

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	28 - Transaction OLA
1	Sub function	0x99 Aborted by the user
4	Message number	
36	Not Used	
1	Pump number	
20	Tail	
64	Total	

0x29 Auth Price Diff

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	29 - Auth price diff
7	Code	
1	Flag1	
		bit 0 - Not Used
		bit 1 - Not Used
		bit 2 - Not Used
		bit 3 - Not Used
		bit 4 - Not Used
		bit 5 - Not Used
		bit 6 - Not Used
		bit 7 - Not Used
4	Authorized price	
4	Sold price	
4	Original Price	
4	Diff amount	
18	Not used	
20	Tail	
64	Total	

0x2A Host Batch

Bytes	Description	Contents
1	Op-code	60
1	Function	0x2A
1	Option	0 - Start 1 - End 2 - Start rejected
6	Host Batch Number	
4	Host Records	
4	Accepted Records	
1	Post Batches	
6	Post Batch 1	
6	Post Batch 2	
6	Post Batch 3	
8	Not Used	
20	Tail	
64	Total	

0x2B Check Fee

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	2B - Check Fee
7	Fee Code	
1	Flag1	
		bit 0 - Not Used
		bit 1 - Not Used
		bit 2 - Not Used
		bit 3 - Not Used
		bit 4 - Not Used
		bit 5 - Not Used
		bit 6 - Not Used
		bit 7 - Not Used
4	Fee Price	
4	Cash Back	
1	(Fee) Table Number	
2	Department Number	
2	Tender Number	
1	Fee Type	
20	Reserved	
20	Tail	
64	Total	

0x2C New ECCA

Bytes	Description	Contents
1	Op-code	60
1	Function	0x2C
1	Template	
20	Account	ASCII null terminated
1	Flag1	
		bit 0 - Second ECCA
		bit 1 - Not Used
		bit 2 - Not Used
		bit 3 - Not Used
		bit 4 - Not Used
		bit 5 - Not Used
		bit 6 - Not Used
		bit 7 - Not Used
20	Not Used	
20	Tail	
64	Total	

0x2D Embedded Price

Bytes	Description	Contents
1	Op-code	60
1	Function	0x2D
1	Flag1	
		bit 0 - Not Used
		bit 1 - Not Used
		bit 2 - Not Used
		bit 3 - Not Used
		bit 4 - Not Used
		bit 5 - Not Used
		bit 6 - Not Used
		bit 7 - Not Used
4	Original Price	
4	Embedded price	
4	Quantity	
4	Different amount	
7	Code	
18	Not Used	
20	Tail	
64	Total	

0x2E EFT Media

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	2E - EFT media
2	Cashier	
2	Media Number	
4	Amount	
34	Not Used	
20	Tail	
64	Total	

0x2F EFT Print Reject

Bytes	Description	Contents
1	Op-code	60
1	Function	0x2F
2	Tender Number	
2	Error code	
20	Account Number	
4	Balance 1	
4	Balance 2	
10	Not Used	
20	Tail	
64	Total	

0x30 Transaction Index

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	30 - Transaction index
1	Flag 1	bit 0 - Ticket total bit 1 - Void ticket bit 2 - Save ticket bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Info
1	Flag 2	bit 0 - Not Used bit 1 - Not Used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
1	Flag 3	bit 0 - Index Clubcard bit 1 - Not Used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used

1	Index length
30	Index
8	Not used
20	Tail
64	Total

0x31 Location		
Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	31 - Location
1	Flag1	bit 0 - Tender Correction bit 1 - Fuel merged recall prepay ticket bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
6	Store ID	
1	Till Type	
1	Checkout bank	
5	EFT Location	
1	Till Profile	
1	Doc Type	El Salvador Tax Report 1 = Ticket 2 = Factura 3 = Credito fiscal
2	Till No	
2	Cashier No	
22	Not used	
20	Tail	
64	Total	

0x32 Tender Coupon

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	32 - Tender coupon
1	Flag1	bit 0 - Coupon Ticket bit 1 - Master Coupon Use bit 2 - Cancel Coupon bit 3 - Coupon was Canceled bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
7	Code	
4	Value	
2	Threshold Qty	
1	Type	
4	Quantity	
4	Minimum Value	
4	Minimum Purchase	
7	Code Master Coupon	
1	Option	
7	Not Used	
20	Tail	
64	Total	

0x33 Training Charge Posting Account

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	33 - Charge Posting training
2	Media number	
1	Flag1	bit 0 - Charge payment bit 1 - Charge reverse bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
12	Account number	
1	CP status	
4	CP amount	
4	CP balance	
4	CP limit	
14	Not Used	
20	Tail	
64	Total	

0x34 Ticket Trailer

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	34 - Ticket trailer
1	Flag1	bit 0 - Not Used bit 1 - Not Used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
3	Date (BCD)	
3	Time (BCD)	
4	Ticket number	
31	Not Used	
20	Tail	
64	Total	

0x35 Finish Media

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	35 - Finish media
4	Fuel Prepay Sync Number	
38	Not Used	
20	Tail	
64	Total	

0x36 Bad External Device Transaction

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function transaction	36 - Bad external device
44	External device transaction record data	
20	Tail	
64	Total	

0x37 Q Length

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	37 - Q Length
1	Flag1	
		bit 0 - Not Used
		bit 1 - Not Used
		bit 2 - Not Used
		bit 3 - Not Used
		bit 4 - Not Used
		bit 5 - Not Used
		bit 6 - Not Used
		bit 7 - Not Used
2	Q Length	
2	Q Length alert count	
37	Not Used	
20	Tail	
64	Total	

0x38 EFT Print Data

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	38 - EFT Print data
1	Flags	bit 0 - Line number bit 1 - Line number bit 2 - Line number bit 3 - Line number bit 4 - Line number bit 5 - Line number bit 6 - First line bit 7 - Last line
41	Data	
20	Tail	
64	Total	

0x39 Alcohol Restricted

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	39 - Alcohol restriction
1	Flag1	bit 0 - Restricted bit 1 - Future restriction bit 2 - Sale restriction bit 3 - Void restriction bit 4 - Refund restriction bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
7	Code (Packed BCD)	
2	Department	
2	Hour	
2	Minute	
4	Amount	
24	Not Used	
20	Tail	
64	Total	

0x3A Minimum Age Message

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	0x3A
1	Minimum age	
41	Not Used	
20	Tail	
64	Total	

0x3B Clubcard Extension

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	3B - Clubcard Extension
1	Flag1	bit 0 - Bio FreqShop flag bit 1 - Clubcard ext 2 bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
40	PBT Customer Name	
1	Loyalty State	
20	Tail	
64	Total	

0x3C Commission

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	3C - Commission
4	Amount	
4	Tender Amount	
4	Percent	
16	Tender Name	
1	Flag1	bit 0 - Cancel bit 1 - Subtract bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
13	Reserved	
20	Tail	
64	Total	

0x3D Fly Buys

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	0x3D
1	Flag	bit 0 - Final bit 1 - Voided bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - MCR used bit 7 - Scanned
20	Card number	
4	Amount	
17	Not Used	
20	Tail	
64	Total	

0x3E Charge Reverse Balance

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	0x3E
1	Flag	bit 0 - Payment bit 1 - Purchase bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
16	CP Name	
4	CP Limit	
13	CP Account number	
4	CP Amount	
4	CP Balance	
20	Tail	
64	Total	

0x3F Clubcard Re-entry

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	0x3F
1	Flag	bit 0 - Not Used bit 1 - Not Used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
20	Card number	ASCII null terminated
3	Origin date	yymmdd
1	POS number	
2	Receipt number	
4	Qualify spent	
4	Points	
1	Re-entry reason code	
4	Keys	
2	Not Used	
20	Tail	
64	Total	

0x40 Promotions/Coupons Cross

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function cross	40 - Promotions/coupons
1	Flag 1	bit 0 - Promotion PLU bit 1 - Promotion department bit 2 - Promotion sub department bit 3 - Promotion mmg bit 4 - Promotion Manufacture bit 5 - Promotion Group bit 6 - Promotion bit 7 - Not Used
2	Promotion number	
1	Bucket number	
1	Promotion type	
2	Department	
7	Code	
1	Reward type	
27	Not used	
20	Tail	
64	Total	

0x41 Deposit

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	41 - Deposit
1	Flag	bit 0 - Start deposit from bit 1 - Start deposit to bit 2 - End deposit bit 3 - Bankable approved bit 4 - Print voucher bit 5 - MCR used bit 6 - Deposit Rejected bit 7 - Not Used
20	Card Number terminated	Card number in ASCII null
4	Bankable amount	
4	Non bankable amount	
2	Tender number	
1	Cheque Sequence Number	
10	Not used	
20	Tail	
64	Total	

0x42 Trading Stamps

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	42 - Trading Stamps
4	Qualify Trading Stamps	
2	Trading Stamps number	
36	Not used	
20	Tail	
64	Total	

0x43 Coupon Information

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	43 - Coupon Information
1	Flag	bit 0 - Weight coupon bit 1 - Dept Store coupon bit 2 - Other Bonus coupon bit 3 - Dept Vendor coupon bit 4 - PLU Store coupon bit 5 - PLU Other Bonus coupon bit 6 - PLU Vendor coupon bit 7 - Frequent Shopper Coupon
4	Weight	
4	Price	
4	Amount	
1	Return Type	
7	Link Code	
1	Flag	bit 0 - Triple Coupon bit 1 - Not Used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Rx Healthcare bit 6 - Non Rx Healthcare bit 7 - Databar Coupon
7	PLU Code	PLU attached to UPC 5 Coupon
4	PLU Sequence Number	

1 Flag

bit 0 - Manual Databar Coupon

bit 1 - Not Used

bit 2 - Not Used

bit 3 - Not Used

bit 4 - Not Used

bit 5 - Not Used

bit 6 - Not Used

bit 7 - Not Used

8 Not Used

20 Tail

64 Total

0x44 Frequent Shopper Member

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function member information	44 - Frequent Shopper
7	Code	
1	Flag	
		bit 0 - Not Used
		bit 1 - Not Used
		bit 2 - Not Used
		bit 3 - Not Used
		bit 4 - Not Used
		bit 5 - Not Used
		bit 6 - Not Used
		bit 7 - Not Used
4	Old price	
4	New Price	
4	Quantity	
4	Save amount	
18	Not used	
20	Tail	
64	Total	

0x45 Staff Discount

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	45 - Staff Discount
4	Discount amount	
4	Discountable actual	
4	Total discount amount	
4	Total discountable	
1	Staff tender number	
1	Flag	bit 0 - Staff discount card only bit 1 - Substr Staff bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
24	Not used	
20	Tail	
64	Total	

0x46 Recall Transaction

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	46 - Recall transaction
1	Flags	bit 0 - Start bit 1 - Not Used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
2	Branch	
2	Checkout bank	
1	POS number	
2	Ticket number	
34	Not used	
20	Tail	
64	Total	

0x47 EFT Settlement

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	47 - EFT Settlement
1	Sub function	0 - Header, 1/2 - Data
1	Flag	bit 0 - Cut over bit 1 - In window bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Failed

5 x	1	Number
	2	Count
	4	Amount

OR

8	Terminal ID
15	Merchant ID
4	Date ddmm
6	Time hhmmss
2	Not used
5	Not used
20	Tail
64	Total

0x48 EFT WYNID

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	48 - EFT WYNID
1	Type	7 - Card E - Cheque
1	Option	1 - Debit 2 - Credit
1	Status	0, 1, 2 - OK
1	Entry type	
1	Card type	
4	Amount	
18	Account	BCD up to 36 digits
8	Auth	
1	MPR count	
6	Not used	
20	Tail	
64	Total	

0x49 Respond Number

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	49 - Respond number
7	PLU Code	
1	Message number	
34	Not used	
20	Tail	
64	Total	

0x4A Cheque Sort Code

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	4A - Cheque sort code
3	Cheque sort code	
39	Not used	
20	Tail	
64	Total	

0x4B Void Report

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	4B - Void report
1	Type of negative action	bit 0 - Cancel item bit 1 - Subtract item bit 2 - Void transaction bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
1	Type of limit	bit 0 - Item value limit bit 1 - Total value limit bit 2 - Total count limit bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
1	Type of authorization	0 = No authorization 2 = Operator key 3 = Supervisor key 4 = Manager key 5 = Technical/Max key 9 = Supervisor/Manager privilege
4	Voided amount	

4	Supervisor/Manager number
7	PLU code
2	Dept number
2	Reason Code
20	Not used
20	Tail
64	Total

0x4C Reorg Print

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	4C - Reorg print
1	Flags	
		bit 0 - Start
		bit 1 - End
		bit 2 - Not Used
		bit 3 - Not Used
		bit 4 - Not Used
		bit 5 - Not Used
		bit 6 - Not Used
		bit 7 - Not Used
41	Not used	
20	Tail	
64	Total	

0x4D Family Coupon

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	4D - Family Coupon
7	Coupon code	
1	Type	
1	Flags	bit 0 - Voided bit 1 - Was voided bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
10	Card number	
23	Not used	
20	Tail	
64	Total	

0x4E Customer Select

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	4E - Customer Select
20	Customer selection	
22	Not used	
20	Tail	
64	Total	

0x4F Family Promotion

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	4F - Family Promotion
2	Bucket number (1)	
2	Quantity (1)	
4	Amount (1)	
2	Points (1)	
2	Bucket number (2)	
2	Quantity (2)	
4	Amount (2)	
2	Points (2)	
2	Bucket number (3)	
2	Quantity (3)	
4	Amount (3)	
2	Points (3)	
2	Bucket number (4)	
2	Quantity (4)	
4	Amount (4)	
2	Points (4)	
2	Not used	
20	Tail	
64	Total	

0x50 Advanced Frequent Shopper

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function Shopper	50 - Advanced Frequent
7	Code	
1	Flag	bit 0 - Exceed Limit bit 1 - Not Net F.S. bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
4	Old price	
4	New price	
4	Quantity	
4	Save amount	
18	Not used	
20	Tail	
64	Total	

0x51 Frequent Shopper Card

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	51 - Frequent Shopper Card
7	Code	
35	Not used	
20	Tail	
64	Total	

0x54 Retransmit

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	54 - Retransmit
1	Flags	bit 0 - Fail bit 1 - Ignore bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
2	Retrans request	
2	Transaction Fifo size	
2	Transaction First	
4	Transaction Pointer	
2	Transaction Count	
2	Future Transaction Count	
2	Transaction Sequence Number	
2	Sequence Range Start	
2	Sequence Range End	
2	Read Pointer	
2	Alternate Read Pointer	
17	Reserved	
20	Tail	
64	Total	

0x55 Vouchers

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	55 - Vouchers
4	Qualifying spend	
2	Vouchers due (number)	
1	Flags	bit 0 - Vouchers accepted by customer bit 1 - Not Used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
35	Not used	
20	Tail	
64	Total	

0x56 Info Store count

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	56 - Info store count
4	Page store count	
38	Not used	
20	Tail	
64	Total	

0x57 Info Credit/Debit Reentry

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	57 - Info credit/debit reentry
3	Date_TRS	
1	Till number	
1	Till type	Mainstore, PFS, Quick
37	Not used	
20	Tail	
64	Total	

0x58 Info Saving Total

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	58- Info saving total
20	Card number	
4	Saving total	Frequent Shopper savings
18	Not used	
20	Tail	
64	Total	

0x59 Savings Plus

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	59- Savings Plus
1	Voided	
41	Reserved	
20	Tail	
64	Total	

0x5A Info Smart Card 01 - ICC

Bytes	Description	Contents	
1	Op-code	60 -	Log information
1	Function	5A	Info Smart card - ICC
16	AID		
2	AIP		
2	ATC		
2	App usage control		
2	App version number		
5	Issuer codes - denial		
5	Issuer codes - online		
5	Issuer codes - default		
3	Not Used		
20	Tail		
64	Total		

0x5B Info Smart Card 02 - Till

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	5B - Info Smart card - Till
1	Cryptogram type	
2	Currency code	
2	Country code	
4	Unpredictable number	
5	TVR	
3	Cardholder verification	
2	TSI	
1	EMV terminal type	
3	Terminal capabilities	
8	Transaction Cryptogram	
1	Cryptogram Info Data	
10	Not Used	
20	Tail	
64	Total	

0x5C Info Smart Card 03 - Issuer

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	5C - Info Smart card - Issuer
32	Issuer app data	
10	Not Used	
20	Tail	
64	Total	

0x5D Info Sales On Account

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	5D - Info Sales On Account
16	Charge Posting Name	
12	Charge Posting Account Number	
10	Charge Posting Related Account Number	
4	Not Used	
20	Tail	
64	Total	

0x5E Info Customer Survey Questions

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function Questions	5E - Info Customer Survey
2	Cashier Number	
1	Checkout Bank	
4	Question Number	
1	Flags	bit 0 - End Ticket bit 1 - Start Ticket bit 2 - Yes/No Type bit 3 - Numeric Type bit 4 - Yes/No Answer (0=No, 1=Yes) bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
4	Numeric Answer	
30	Not Used	
20	Tail	
64	Total	

0x5F Transaction Info Voucher

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function Voucher	05F - Transaction Info
4	Program Number	
10	Voucher Number	
4	Key Code	
4	Points	
20	Filler	
20	Tail	
Total	64	

0x61 Info Pre-payment

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	61 - Info Pre-payment
1	Flags	bit 0 - Set / Reset pre-payment bit 1 - Not Used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
41	Not used	
20	Tail	
64	Total	

0x62 Info Charge FNB

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	62 - Info charge FNB
12	CP account number	
30	Not used	
20	Tail	
64	Total	

0x63 Info Promotion Total Stub

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	63 - Info promotion total stub
2	Promotion number	
4	Sell amount	
4	Saver value	
32	Not used	
20	Tail	
64	Total	

0x64 Info Easy Shop Restricted Item

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function Restricted Item	64 - Info Easy Shop
42	Not used	
20	Tail	
64	Total	

0x65 Community Partner

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	65 - Community Partner
1	Flags	bit 0 - Final bit 1 - Voided bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - MCR Used bit 7 - Scanned
20	Card Number	
4	Amount	
17	Reserved	
20	Tail	
64	Total	

0x66 Info Automatic Refund

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	66 - Info Automatic Refund
6	Customer Number	
3	Transaction Date	
1	Till No	
4	Transaction Number	
28	Not used	
20	Tail	
64	Total	

0x67 Info CCMS

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	67 - Info CCMS
1	CCMS Customer Online	
1	CCMS Customer Off-line	
40	Not used	
20	Tail	
64	Total	

0x68 Info Bonus Buy

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	68 - Info Bonus Buy
1	Flags	
		bit 0 - Not Used
		bit 1 - Not Used
		bit 2 - Not Used
		bit 3 - Not Used
		bit 4 - Not Used
		bit 5 - Not Used
		bit 6 - Cancel Item
		bit 7 - Subtract Item
7	PLU Code	
1	Type	
3	Valid Date	
4	Bonus Buy value	
4	Sale value	
4	Savings	
18	Not used	
20	Tail	
64	Total	

0x69 Info Bonus Points Savings

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function Savings	69 - Info Bonus Points
7	PLU Code	
4	Bonus Points	
4	Quantity	
27	Not used	
20	Tail	
64	Total	

0x6A Info Black Box

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	6B- Info Black Box
1	Flag 1	bit 0 - Black Box Start bit 1 - Flag Ok bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
3	Issuer Code	
3	User Code	
6	Card Number	
4	Remaining Balance	
1	Card Type	
4	Purchase Amount	
1	Purpose Code	
4	Until Date	
1	Status Code	
4	Face Value	
10	Not Used	
20	Tail	
64	Total	

0x6B Balance Inquiry

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	6B- Info Balance Inquiry
4	EBT Cash Balance	
4	EBT Foodstamps Balance	
4	Gift Card Balance	
5	Authorization Number	
5	EFT Reference Number	
2	Year of Expiration Date	
1	Flags	bit 0 - EBT Cash balance bit 1 - EBT Foodstamps balance bit 2 - Enhanced MPR voucher print bit 3 - Accept Expiration Date (EBT) bit 4 - Print Authorization Number (EBT) bit 5 - Print Cash Balance (EBT) bit 6 - Print Food Stamp Balance (EBT) bit 7 - Opt MTX Receipts Retrieved (EBT)
1	Flags 2	bit 0 - Print Gift Card Balance bit 1 - Print Gift Card Balance bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used

bit 6 - Not Used

bit 7 - Not Used

10	Account Number
1	Account Length
1	Card Range Number
4	Sequence Number
20	Tail
64	Total

0x6C Black Box Data

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	6C- Black Box Data
1	Flags	bit 0 - Flag Information bit 1 - Not Used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
3	Issuer Code	
3	User Code	
6	Card Number	
4	Remaining Balance	
1	Card Type	
1	Purpose Code	
4	Until Date	
1	Status Code	
4	Face Value	
14	Not Used	
20	Tail	
64	Total	

0x70 Info EFT Nomad Media

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	70 - Info EFT Nomad Media
2	Card Type	
2	Media Number	
4	Amount	
4	Cash Back	
21	EFT Account Number	
1	Flags	bit 0 - Enter Account bit 1 - Enter Account bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
1	Manual Entry Type	
7	Not used	
20	Tail	
64	Total	

0x71 Info EFT Nomad Print Slip

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function Slip	71 - Info EFT Nomad Print
8	EFT Transaction Number	
11	EFT Terminal Return	
2	EFT Sequence Return	
15	EFT Merchant Return	
6	Not used	
20	Tail	
64	Total	

0x72 Info EFT Nomad Owner Name

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function Name	72 - Info EFT Nomad Owner
42	EFT Owner Name	
20	Tail	
64	Total	

0x73 Info Redemption Points

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	73 - Info Redemption Points
4	Redemption Points Program 1	
4	Redemption Points Program 2	
4	Redemption Points Program 3	
4	Redemption Points Program 4	
4	Redemption Points Program 5	
4	Redemption Points Program 6	
4	Redemption Points Program 7	
4	Redemption Points Program 8	
4	Redemption Points Program 9	
4	Redemption Points Program 10	
2	Not Used	
20	Tail	
64	Total	

0x74 Info EFT Nomad Budget

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	74 - Info EFT Nomad Budget
10	EFT Transaction Number	
2	EFT Budget Period	
2	EFT Expiry Year	
2	EFT Expiry Month	
4	EFT Open to buy balance return	
4	EFT Account Balance return	
4	EFT Plan 1	
14	Not Used	
20	Tail	
64	Total	

0x75 Info EFT Nomad Cheque

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	75 - Info EFT Nomad Cheque
4	EFT Cheque Clear Code	
16	EFT Cheque Account Number	
4	EFT Cheque Number	
18	Not Used	
20	Tail	
64	Total	

0x77 Scanpoint Save Report

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	77- Scanpoint Save Report
4	Scanpoint Scanned	
4	Rescanned	
4	Scanpoint Scanned Weight	
4	Rescanned Weight	
26	Not Used	
20	Tail	
64	Total	

0x79 Smart Card Coupon

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	79- Smart Card Coupon
7	Coupon Code	
6	Coupon Info	
3	Expiration Time	
3	Start Time	
3	Capture Time	
1	Re-used counter	
1	Flags	bit 0 - Not Used bit 1 - Not Used bit 2 - Display Capable bit 3 - DB Unread or Read bit 4 - Source bit 5 - Active or Cancel bit 6 - Active or Average Status bit 7 - Redemption Status
1	Flags	bit 0 - Subtract bit 1 - Cancel bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Read bit 7 - Write
4	Reward	
7	PLU Code	

6	Not Used
4	Reward
6	Not Used
20	Tail
64	Total

0x7A Smart TV Card Data

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	07A - Smart TV Card Data
2	Wallet ID	
4	Card Holder ID	
1	Card Usage Count	
1	Coupon Redeemed	
2	Saving Accumulator	
1	Flag1	bit 0 - Not Used bit 1 - Not Used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Dirty
1	Flag1	bit 0 - Read bit 1 - Write bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
30	Not used	
20	Tail	
Total	64	

0x7B Gift Card Activation

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	07B - Gift Card Transaction
1	Action Type	
11	Card Number	
9	Authorization Number	
10	Reference Number	
4	Beginning Balance	
4	Transaction Amount	
1	Flag1	bit 0 - Activation bit 1 - Recharge Gift Card bit 2 - Opt MTX Receipts Retrieved bit 3 - Manually Swiped bit 4 - Opt External Data bit 5 - Allow Deactivation bit 6 - Pre-activated Flag bit 7 - Activation After Tender
2	Tender Number	
20	Tail	
Total	64	

0x80 EFT Finland (Request 1)

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	80 EFT Finland
12	Amount	
4	Transaction Type	
19	Account	
6	Authorization Code	
1	Not Used	
20	Tail	
64	Total	

0x81 EFT Finland (Request 2)

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	81 EFT Finland
4	Expiry Date	
4	Message Type	0100 = Authorization request 0101 = Repetition of request 0400 = Cancellation of Auth 0401 = Repetition of Cancel.
2	Original Response Code	
1	Flags	bit 0 - Request Failed bit 1 - Cancel Subtract Flag bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
31	Not Used	
20	Tail	
64	Total	

0x82 EFT Finland (Response 1)

Bytes	Description	Contents	
1	Op-code	60 -	Log information
1	Function	82	EFT Finland
12	Amount		
4	Transaction Type		
19	Account		
6	Authorization Code		
1	Not Used		
20	Tail		
64	Total		

0x83 EFT Finland (Response 2)

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	83 EFT Finland
4	Message Type	
2	Response Code	
6	Message ID from SOK	
10	Time Stamp Response	
6	Authorization Code Response	
1	Flags	bit 0 - Request Failed bit 1 - Cancel Subtract Flag bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
2	Tender Number	
11	Not Used	
20	Tail	
64	Total	

0x84 Matthew Clubcard Trigger

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function Trigger	84 - Matthew Clubcard
1	Trigger Number	
1	Currency Type	
4	Qualify Spend	
4	Award Points	
4	Award Keys	
28	Not Used	
20	Tail	
64	Total	

0x85 CC OLA Message

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	85 - CC OLA Message
1	Flags	bit 0 - Op Message bit 1 - Elong bit 2 - Type 1 bit 3 - Type 2 bit 4 - Type 3 bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
41	Data	
20	Tail	
64	Total	

0x86 Department Additional Data

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function Data	86 - Department Additional
1	Flags	bit 0 - Opt Subtract bit 1 - Opt Cancel bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
1	Return Type	
4	Qty	
4	Amount	
7	Item for Department Additional Data	
25	Not Used	
20	Tail	
64	Total	

0x87 Promotion Coupon Required

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function Required	87 - Promotion Coupon
2	Promotion Number	BCD
7	No Coupon Required	
1	Flags	bit 0 - Delayed Promotion bit 1 - Coupon Required Return bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
32	Not Used	
20	Tail	
64	Total	

0x88 OLA Day Totals

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	88 - OLA Day Totals
4	Credit Total	1 - Write
2	Credit Count	
4	Debit Total	
2	Debit Count	
30	Not Used	
20	Tail	
64	Total	

0x89 Pump Totals

Bytes	Description	Contents
1	Op-code	60 - Log information
1	Function	89 - Pump Totals
2	Nozzle	1 - Write
2	Grade	
4	Index Number	
4	Pump	
4	Active Read Number	
4	Shift Number	
4	Volume	
4	Value A	
4	Value B	
4	Date Time	
6	Not Used	
20	Tail	
64	Total	

0x8A Message 5 PLU

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	8A - Message 5 PLU
1	Flag1	bit 0 - Subtract bit 1 - Canceled bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
20	Describe Message PLU	
7	Link PLU Code	
14	Not Used	
20	Tail	
64	Total	

0x91 ROA Information

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	91 - ROA Information
20	Account Number	
1	Flags	bit 0 - Change bit 1 - Subtract bit 2 - Cancel bit 3 - Multi Part Receipt bit 4 - Confirm Signature bit 5 - Account bit 6 - Not Used bit 7 - Not Used
9	Bank Number	
6	Check Number	
6	Not Used	
20	Tail	
64	Total	

0x92 Card Deposit

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	92 - Card Deposit
21	Account	
9	Print Authorization number	
1	Issue No	
2	Issue Date Year	
2	Issue Date Month	
2	Expiry Date Year	
2	Expiry Date Month	
1	Flags	bit 0 - Issue Not Used bit 1 - MCR used bit 2 - Smart Card Used bit 3 - Accept Expiry Date bit 4 - Accept Issue Date bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
2	Not Used	
20	Tail	
64	Total	

0x93 Ticket Times

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	93 - Ticket Times
1	Flags	bit 0 - Ticket with exception bit 1 - Not used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
4	Time for all ticket	
4	Time accept cards	
4	Time scan items	
4	Time finish ticket	
4	Time Supervisor	
4	Time call assistant	
4	Time supervisor menu	
13	Not Used	
20	Tail	
64	Total	

0x94 Ticket Exceptions

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	94 - Ticket Exceptions
1	Flag1	bit 0 - Ticket with exception bit 1 - Not Used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
2	All Items	
2	Items with exception	
2	Cancel exception	
2	Items with manual exception	
2	Items with not on file exception	
2	Items with not for sale exception	
2	Items with manual price exception	
2	Items with price verify exception	
2	Items with age restricted exception	
2	Items with video sale exception	
2	Items with time restrict exception	
2	Maximum customer age	
17	Not Used	
20	Tail	
64	Total	

0xA0 EJ Bad Account

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	A0 - EJ Info on Bad Accts
10	Account Number	BCD 19
1	Account Length	
1	Card Range Number	
1	Flag1	bit 0 - MCR Used bit 1 - Not Used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
29	Not Used	
20	Tail	
64	Total	

0xA1 EJ Price Inquiry

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	A0 - EJ Info on Price Inquiry
7	PLU Code	
4	Inquiry Amount	
4	Promotion Amount	
4	Discount Amount	
4	PLU Price	
4	Original Price	
4	Count	
4	Decimal Count	
1	Mult Sell Unit	
4	Weight	
1	Flag1	bit 0 - Execute Inquiry bit 1 - Store Coupon bit 2 - Vendor Coupon bit 3 - Other Coupon bit 4 - WIC Item bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
1	Not Used	
20	Tail	
64	Total	

0xA2 EJ Info Control Check

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	A2- EJ Info Control Check
2	Control Check Number	
1	Flag1	bit 0 - Accepted bit 1 - Not Used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
1	Flag2	bit 0 - Ask Yes No bit 1 - Manager Key bit 2 - Stop Activity bit 3 - Supervisor Key bit 4 - Warning Only bit 5 - Valid Record bit 6 - Delayed Authorization bit 7 - Value at Text
1	Privilege	
2	Cashier Number	
2	Template Number	
1	POS Status	
32	Not Used	
20	Tail	
64	Total	

0xA3 EJ Info Age ID

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	A3- EJ Info Age ID
1	Current Age	
3	Birthday Date	
1	Flag1	
		bit 0 - Bypass Age
		bit 1 - Check Age
		bit 2 - Bypass or Check Accepted
		bit 3 - Not Used
		bit 4 - Not Used
		bit 5 - Not Used
		bit 6 - Not Used
		bit 7 - Not Used
37	Not Used	
20	Tail	
64	Total	

0xA4 Add Loss Report (Item On Sale)

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	A4- Item on Sale
7	Code	
1	Flag1	
		bit 0 - Qty is weight
		bit 1 - Qty is decimal qty
		bit 2 - Qty is liter
		bit 3 - Not Used
		bit 4 - Not Used
		bit 5 - Not Used
		bit 6 - Not Used
		bit 7 - Not Used
4	Original Price	
1	Original Qty	
4	Sale Price	
1	Sale Qty	
4	Amount	
4	Quantity	
16	Not Used	
20	Tail	
64	Total	

0xB1 OLA Request

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	B1 - OLA Request
1	Flag1	bit 0 - Open Com Failed bit 1 - TX Failed bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
1	Flag1	bit 0 - E Top Up bit 1 - Reversal bit 2 - EOT Update bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
10	Card Number	
2	Message Sequence No	
1	Message Type	
27	Not Used	
20	Tail	
64	Total	

0xB2 CC OLA Response

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	B2 - CC OLA Response
1	Flag1	bit 0 - Timeout bit 1 - Message Rejected bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
2	Message Sequence No	
1	Countdown	
1	Message Type	
37	Not Used	
20	Tail	
64	Total	

0xB3 Topup Record

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	B3 - Topup Record
1	Flag1	bit 0 - Reversal Sent bit 1 - Voided bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
10	Card Number	
1	Airtime Scheme	
7	EAN	
4	Value	
2	Message Sequence No	
15	Transaction ID	
1	Status	
1	Not Used	
20	Tail	
64	Total	

0xDC Signature Capture Record - Header

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	DC - Signature Capture
1	Sub Function	0x01 Header Record
2	Buffer Type	1 = MTX 2 = Ingenico
2	Unzipped Buffer Size	
2	Number of Signature Capture	
35	Not Used	
40	Data	
20	Tail	
64	Total	

0xDC Signature Capture Record - Data

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	DC - Signature Capture
1	Sub Function	0x02 Data Record
1	Sequence number	
40	Data	
20	Tail	
64	Total	

0xF7 StoreNext

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	F7 - StoreNext
1	Template Printed Flag	bit 0 - Will be set if custom template printed at end of every X ticket bit 1 - Not Used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
41	Not Used	
20	Tail	
64	Total	

0xFF Information Tare

Bytes	Description	Contents
1	Op-code	60 - Log Information
1	Function	FF - Information Tare
1	Sub Function	0x01 Data Record
1	Tare	
4	Tare weight	
4	Item weight	
1	Flag1	bit 0 - Manual Tare bit 1 - Not Used bit 2 - Not Used bit 3 - Not Used bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
31	Not Used	
20	Tail	
64	Total	

Opcode 63 Alerts

General Alerts Structure

Below is the general structure for alerts. Where alerts have different structures, they are individually described.

Alert Type	Range
POS generated	1 - 199
Back Office generated	200 - 500
User-defined	1000 and greater

Bytes	Description	Contents
1	Op-code	63 - Alerts
2	Alert number	POS-generated alerts (1-237) 10 Printer error 11 Drawer error 12 Scanner error 13 Customer display error 14 Swipe keyboard error 21 POS start EOD 22 POS EOD in trans 30 Power up reboot 31 Store open 32 POS off-line 33/1 Load PLU start, foreground 33/2 Load PLU end, foreground 34/1 Load PLU start, background 34/2 Load PLU end, background

35 Cold start
40 Drawer full (assistance)
41 Topup (not enough cash change)
42 Q length
45 Password violation
50 OLA off-line
60 Catering Switch Form
80 POS software version
89 File refresh
90/1 Start RS batch
90/2 End RS batch
91 Program corrupt
101 Till missing from POLL list
110 Storeboard message

BACK OFFICE-generated alerts
(200-500)

200 System start
201 EOD start
202 EOD finish
203 EOD POPS off-line
204 Exit DOS
205 Unbalanced POS
210 Dangerous program
211 Program not from menu
230 Program version
232 No comm to POS
233 Secure password violation
234/1 PLU build key, pos
234/2 PLU build key, item
234/3 PLU build key, inter

		234/5	PLU build key, name
		234/6	PLU build key, dep
		237/0	Alert CFM
		237/1	Alert CFM, Update
		237/2	Alert CFM, Recovery
		237/3	Alert CFM, File
		237/4	Alert CFM, End
		237/5	Alert Emergency CFM, Fail Sync
		238	Disk space alert
1	Function		
1	Flag1		
		bit 0 -	Display message on PCs
		bit 1 -	Popup alert message from background
		bit 2 -	Move alert to saved file (ignore)
		bit 3 -	Use original POS number (for on-line alerts, FC47)
		bit 4 -	Get text message
		bit 5 -	Not Used
		bit 6 -	Not Used
		bit 7 -	Not Used
37	Alert data		
1	Original POS number		
1	Original PC number		
20	Tail		
64	Total		

Transaction Alert (general)

Bytes	Description	Contents
1	Op-code	63 - Alerts
2	Sub opcode	
1	Function	
1	Flag1	bit 0 - Not Used bit 1 - Not Used bit 2 - Not Used bit 3 - Use original POS number bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
1	Message number	
1	Cashier answer	1 - No, 2 - Yes
37	Data	
1	Original POS number	
1	Original PC number	
20	Tail	
64	Total	

Transaction QDX Error

Bytes	Description	Contents
1	Op-code	63 - Alerts
2	Sub function	116
1	Function	
1	Flag1	bit 0 - Not Used bit 1 - Not Used bit 2 - Not Used bit 3 - Use Original POS# bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
2	Transaction Fifo size	
2	Transaction First	
4	Transaction Pointer	
2	Transaction Count	
2	Future Transaction Count	
2	Transaction Sequence Number	
23	Data	
1	Original POS Number	
1	Original PC Number	
20	Tail	
64	Total	40

Unbalanced POS

Bytes	Description	Contents
1	Op-code	63 - Alerts
2	Sub function	205- Unbalanced POS
1	Function	
1	Flag1	bit 0 - Display message bit 1 - DRV file popup bit 2 - Ignore alert bit 3 - Use POS number bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
1	POS-no	
1	PC_no	
8	yesterday_grand_total	
8	today_grand_total	
8	diff_grand_total	
4	gross_sales	
4	diff_sales	
5	Not Used	
20	Tail	
64	Total	40

Program Version

Bytes	Description	Contents
1	Op-code	63 - Alerts
2	Sub function	230- Program Version
1	Function	
1	Flag1	bit 0 - Display message bit 1 - DRV file popup bit 2 - Ignore alert bit 3 - Use POS number bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
12	prog_name	
3	compile_date	
3	compile_time	
8	version	
1	POS-no	
1	PC_no	
11	Not Used	
20	Tail	
64	Total	40

POST Version Alert

Bytes	Description	Contents
1	Op-code	63 - Alerts
2	Sub function	80 - POST Version Alert
1	Function	
1	Flag1	
		bit 0 - Not Used
		bit 1 - Not Used
		bit 2 - Not Used
		bit 3 - Use POS number
		bit 4 - Not Used
		bit 5 - Not Used
		bit 6 - Not Used
		bit 7 - Not Used
12	Program Name	
3	Compile Date	
3	Compile Time	
8	Version	
11	Data	
1	Original POS Number	
1	Original PC Number	
20	Tail	
64	Total	40

File Refresh

Bytes	Description	Contents
1	Op-code	63 - Alerts
2	Sub function	89 - File Refresh
1	Function	
1	Flag1	bit 0 - Not Used bit 1 - Not Used bit 2 - Not Used bit 3 - Use original POS number bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
1	QDX File	
1	Status	1 - Start refresh checksum fails 2 - Start refresh TV problem 3 - Suspend load user abort 4 - Resume load 5 - Start refresh force request 6 - Start refresh CFM request 7 - File refresh completed
35	Data	
1	Original POS Number	
1	Original PC Number	
20	Tail	

64

Total 40

Alert Batch

Bytes	Description	Contents
1	Op-code	63 - Alerts batch
2	Sub function	90 - Alert Batch
1	Function	
1	Flag1	bit 0 - Not Used bit 1 - Not Used bit 2 - Not Used bit 3 - Used original POS # bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
6	Host Batch Number	
4	Host Records	
4	Accepted Records	
23	Not Used	
1	Original POS Number	
1	Original PC Number	
20	Tail	
64	Total	

Package

Bytes	Description	Contents
1	Op-code	63 - Alerts package
2	Sub function	
1	Function	
1	Flag1	bit 0 - Display message bit 1 - DRV file popup bit 2 - Ignore alert bit 3 - Use POS number bit 4 - Get text message bit 5 - Manual package bit 6 - Not Used bit 7 - Not Used
4	Package number	
33	Data	
1	POS number	
1	PC number	
20	Tail	
64	Total	

Alert CFM

Bytes	Description	Contents
1	Op-code	0x63 - Alerts CFM
2	Sub function	237 - Alerts CFM
1	Function	0 - Alert CFM 1 - Alert CFM Update 2 - Alert CFM Recovery 3 - Alert CFM File 4 - Alert CFM End 5 - Alert Emergency CFM Fail Sync
1	Flag1	bit 0 - Display message bit 1 - Drivefile Popup bit 2 - Ignore Alert bit 3 - Use POS number bit 4 - Get text message bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
1	QDX File	
1	No Files	
35	Data	
1	POS Number	
1	PC Number	
20	Tail	
64	Total	

Disk Space Info

Bytes	Description	Contents
1	Op-code	63 - Alerts package
2	Sub function	238 - Disk Space Info
1	Function	
1	Flag1	bit 0 - Display message bit 1 - DRV file popup bit 2 - Ignore alert bit 3 - Use POS number bit 4 - Get text message bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
4	Free space in disk	
4	Free space minimum (needed)	
29	Data	
1	POS number	
1	PC number	
20	Tail	
64	Total	

Storeboard Message

Bytes	Description	Contents
1	Op-code	63 - Storeboard message
2	Sub function	110
1	Function	
1	Flag1	bit 0 - Not Used bit 1 - Not Used bit 2 - Not Used bit 3 - Use original POS number bit 4 - Not Used bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
1	Message number	
1	Cashier answer	1 - no, 2 - yes
35	Message text	First 35 bytes of text
1	Original POS Number	
1	Original PC Number	
20	Tail	
64	Total	

Code Distribution

Bytes	Description	Contents
1	Op-code	63 - Storeboard message
2	Sub function	0xDE
1	Function	
1	Flag1	bit 0 - Display Message bit 1 - Drive File Pop Up bit 2 - Ignore alert bit 3 - Use Original POS Number bit 4 - Get Text Message bit 5 - Manual Package bit 6 - Not Used bit 7 - Not Used
12	Package Name	
14	Data	
1	Opener Result	
2	Prev_Rel_a	
2	Prev_Rel_b	
2	Prev_Rel_c	
2	Prev_Rel_d	
2	Error	
1	POS Number	
1	PC Number	
20	Tail	
64	Total	

Opcode 64 Printout

Transaction Printout

Bytes	Description	Contents
1	Op-code	64 - Transaction printout
1	Flag1	bit 0 - End bit 1 - Start bit 2,3 Pre blank lines (up to three) bit 4 - Print only to Electronic Journal bit 5 - Cut bit 6 - Emphasized bit 7 - Enlarged
40	Text	
2	Not Used	
20	Tail	
64	Total	

Opcode 70 Sub-Opcodes: 0x01 to 0xFE

The Opcode number 70 is a continuation of the Opcode 60. It also refers to all the events logged by the POS that do not belong to any specific type of transaction registered. It is a general transaction. A Sub Opcode defining the function differentiates each one of the Opcode numbers 70.

0x38 SEPS SNF Data

Bytes	Description	Contents
1	Op-code	70 - Log Information
1	Function	0x38
21	Account	
4	Expiration date	
4	Amount	
13	Not Used	
20	Tail	
64	Total	

0x87 FSA

Bytes	Description	Contents
1	Op-code	70 - Log Information
1	Function	0x87
4	RX Number	
4	Non RX Amount	
34	Not Used	
20	Tail	
64	Total	

0x0C Info MobileLime Data Loyalty – Loyalty Record

Bytes	Description	Contents
1	Op-code	70 - Log Information
1	Function	0x0C
1	Sub Function	0x01 Loyalty Record
1	Status	1: OK 2: Denied 3: Pending/Timeout
5	Mobile Number	BCD
20	Segments	
15	Not Used	
20	Tail	
64	Total	

0x0C Info MobileLime Data Loyalty – EFT record

Bytes	Description	Contents
1	Op-code	70 - Log Information
1	Function	0x0C
1	Sub Function	0x02 EFT Record
1	Status	1: OK 2: Denied 3: Pending/Timeout
5	Mobile Number	BCD
4	Net amount	
4	Discount amount	
27	Not Used	
20	Tail	
64	Total	

0x0D Info MobileLime Data Loyalty – Comments Header

Bytes	Description	Contents
1	Op-code	70 - Log Information
1	Function	0x0D
1	Sub Function	0x01 Header Record
2	Number of MobileLime Comments	
2	MobileLime Comments Size	
37	Not Used	
20	Tail	
64	Total	

0x0D Info MobileLime Data Loyalty – Comments Data

Bytes	Description	Contents
1	Op-code	70 - Log Information
1	Function	0x0D
1	Sub Function	0x02 Comments Record
1	Sequence Number	
40	Data	
20	Tail	
64	Total	

0xC2 MTX Receipt Info

Bytes	Description	Contents
1	Op-code	70 - Log Information
1	Function	0xC2
1	SubOpcode	
		0x01 - Header
		0x02 - Details
	Receipt Header	
1	Receipt Type	
4	Receipt Lines Count	
4	Compressed Buffer Size	
4	Uncompressed Buffer Size	
2	Number Of Data Sequence	
5	Sequence Number	
4	ERC Required Data Option	
17	Not Used	
	Receipt Detail	
1	Sequence Number	BCD 0x00 to 0x99
1	Number of bytes	
39	Data	
20	Not Used	
64	Total	

0xF0 Databar Coupon

Bytes	Description	Contents
1	Op-code	70 - Info2 Transaction
1	Function	0xF0
1	Sub Function	0x01 - Ticket Frame start 0x02 - Barcode 0x03 - Primary Purchase 0x04 - Second Purchase 0x05 - Third Purchase 0x06 - Coupon Data 1 0x07 - Coupon Data 2 0x08 - Coupon Data 3 0x09 - Item Links 0x99 - Manual Entry
Union		
Coupon Ticket Frame		0x01
1	Flag1	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 bit 7 - Not Used
40	Not Used	
Coupon Transaction Barcode		0x02

1	Type	
	Union	
	Barcode Header (Type = 0x01)	
4	Number of Data Records	
36	Not Used	
	Barcode Data (Type = 0x02)	
1	Record Number	
39	Data	
	Primary Purchase	0x03
13	Company Prefix	
3	Family Code	
4	Purchase Requirements	
4	Purchase Requirements Code	
17	Not Used	
	Second Purchase	0x04
13	Company Prefix	
3	Family Code	
4	Purchase Requirements	
4	Purchase Requirements Code	
17	Not Used	
	Third Purchase	0x05
13	Company Prefix	
3	Family Code	
4	Purchase Requirements	
4	Purchase Requirements Code	
17	Not Used	
	Coupon Data 1	0x06
4	Amount	
4	Quantity	

6	Offer Code	
4	Save Value	
4	Additional Purchase Rules Code	
6	Expiration Date	
6	Start Date	
7	Not Used	
Coupon Data 2		0x07
15	Serial Number	
13	Retailer GS1 Company Prefix	
4	Save Value	
4	Save Value Applies To	
4	Store Coupon Flag	0=not store coupon 1-9=store coupon (value is limit quantity)
1	Not Used	
Coupon Data 3		0x08
4	Multiply Allowed Flag	0=allowed 1=not allowed
4	Checker Intervention Required Flag	0=not required 1=required
4	General Error Flag	
4	Start Date Status	
4	Expiry Date Status	
4	Svat Qualifier Field	
17	Not Used	
Transaction Item Links		0x09
1	Type	
Union		
Header (Type = 0x01)		

2	Number of links	
38	Not Used	
Data	(Type = 0x02)	
14	PLU Code	Repeat this data record for the number of item links
4	Sequence	
4	Sub Sequence	
4	Item Qualifier	
14	Not Used	
Transaction Manual Entry		0x99
18	Databar Number	
2	Department	
4	Amount	
17	Not Used	
20	Tail	
64	Total	

0xF3 eWIC

Bytes	Description	Contents
1	Op-code	70 - Info2 Transaction
1	Function	0xF3
1	Sub Function	
		0x01 - Ticket Frame start
		0x02 - Item Sale
		0x03 - Item Cross Ref
		0x08 - Ticket total
		0x09 - Prescription details
		0x0B - Ticket tax details
		0x0C - Item tax details
		0x20 - Benefits list
		0x99 - Ticket frame end
Union		
Ticket		0x01- Start
Frame		0x99- End
2	POS number	
10	PAN	BCD
1	PAN Length	PAN number length (0-99)
2	Alpha State Code	
1	State FIPS (hex)	
4	Session Date	BCD YYYYMMDD
3	Session Time	
18	Not Used	
Union		
Item Sale		0x02
7	PLU Code	

2	Category	
2	Subcategory	
2	Item Action Code	
4	PLU Price	
4	Sell Amount	
7	Linked PLU Code	
1	PLU Indicator	If CVV item or not
4	Count	
4	Approved Price	
Union		
	Item X-Ref	0x03
2	Sequence #	
39	Not Used	
Union		
	Ticket Total	0x08
4	Tender Amount	
4	Wic Coupon Total	
4	Wic Promotion Total	
4	Wic discount total	
4	Wic item total	
4	Wic item count	
4	Wic net total	
13	Not Used	
Union		
	Rx Details	0x09
4	Expiration Date	
37	Not Used	

Union

Ticket tax details 0x0B

1 Tax Number
 4 Taxable Amount
 4 Tax Amount
 32 Not Used

Union

Item tax details 0x0C

7 Plu code
 1 Flag1

bit 0 - FS item
 bit 1 - Cost Plus
 bit 2 - Non Merchandise
 bit 3 - Negative
 bit 4 - Discount Allowed
 bit 5 - Not Used
 bit 6 - Not Used
 bit 7 - Not Used

1 Tax
 1 MSU amount
 4 Sell amount
 4 Return surcharge %
 4 Quantity
 2 Department
 17 Not Used

Union

Benefit List 0x20

1 Type of benefit record
 0x01 = Beginning balance
 0x02 = Eligible benefits
 0x03 = Ending balance

1	Subtype	0x01 = Header 0x02 = Details
Union		
Header		0x01
2	Number of details records	
10	PAN	
1	PAN length	
2	State code	
4	End date	
2	Block count	
2	Compressed Buffer Size	
2	Uncompressed Buffer Size	
14	Not Used	
Data		0x02
2	Record Number	
1	Number of bytes in this record	
36	Data	
64	Total	

0xF7 LaneHawk Manual Add Item

Bytes	Description	Contents
1	Op-code	70 - Info2 Transaction
1	Function	0xF7
1	Action	0=Exact Match 1=Mfg Code Match 2=Generic Match
7	PLU Code (BCD)	
7	Display Code (BCD)	Matching Code from LH List
27	Not Used	
20	Tail	
64	Total	

0xFA LaneHawk Clear Item

Bytes	Description	Contents
1	Op-code	70 - Info2 Transaction
1	Function	0xFA
7	PLU Code (BCD)	
35	Not Used	
20	Tail	
64	Total	

0xFD WIC CVV

Bytes	Description	Contents
1	Op-code	70 - Info2 Transaction
1	Function	0xFD
2	WIC CVV Index	
4	WIC CVV Total Voucher Value	
1	CVV Issue Day	
1	CVV Issue Month	
2	CVV Issue Year	
1	CVV Exp Day	
1	CVV Exp Month	
2	CVV Exp Year	
28	Not Used	
20	Tail	
64	Total	

0xFE WIC CVV Tax Info

Bytes	Description	Contents
1	Op-code	70 - Info2 Transaction
1	Function	0xFE
1	Tax Number	
4	WIC CVV Forgive Taxable Amount	
4	WIC CVV Forgive Tax Amount	
33	Not Used	
20	Tail	
64	Total	

0x99 Transaction Info2 EBTWIC 01

Bytes	Description	Contents
1	Op-code	70 - Info2 Transaction
1	Function	0x99
1	Subopcode	0x01 EBTWIC INFO TRAN TICKET FRAME
2	POS No	
35	Not Used	
20	Tail	
64	Total	

0x99 Transaction Info2 EBTWIC 02

Bytes	Description	Contents
1	Op-code	70 - Info2 Transaction
1	Function	0x99
1	Subopcode	0x02 EBTWIC INFO TRAN ITEM SALE
7	PLU Code	BCD
2	Category	
2	Sub Category	
4	Quantity	
2	Count	
4	Price	
4	Sell Amount	
7	Link UPC	BCD
1	PLU/UPC Indicator	
4	Count	
4	Not Used	
20	Tail	
64	Total	

0x99 Transaction Info2 EBTWIC 06

Bytes	Description	Contents
1	Op-code	70 - Info2 Transaction
1	Function	0x99
1	Subopcode	0x06 EBTWIC INFO TRAN ERROR
10	PAN	BCD (0-99)
1	PAN Length	
2	Error Code	BCD (0-9999)
2	State Code	
1	State FIPS	Hex
25	Not Used	
20	Tail	
64	Total	

0x99 Transaction Info2 EBTWIC 08

Bytes	Description	Contents
1	Op-code	70 - Info2 Transaction
1	Function	0x99
1	Subopcode	0x08 EBTWIC INFO TRAN ERROR
4	Tender Amount	
4	WIC Coupon Total	
4	WIC Promotion Total	
4	WIC Discount Total	
4	WIC Item Total	
4	WIC Item Count	
4	WIC Net Total	Item total - Coupon total + Discount total + Promotion Total
13	Not Used	
20	Tail	
64	Total	

0x99 Transaction Info2 EBTWIC 09

Bytes	Description	Contents
1	Op-code	70 - Info2 Transaction
1	Function	0x99
1	Subopcode	0x09 EBTWIC INFO TRAN BENEFIT DETAILS
15	Issuer ID	
4	Start Date	BCD YYYYMMDD
4	End Date	BCD YYYYMMDD
18	Not Used	
20	Tail	
64	Total	

0x99 Transaction Info2 EBTWIC 0A

Bytes	Description	Contents
1	Op-code	70 - Info2 Transaction
1	Function	0x99
1	Subopcode	0x0A EBTWIC INFO TRAN SIGN
1	TransSignLen	
1	Number of records	
1	Record Number	
38	TransSignData	
20	Tail	
64	Total	

0x99 Transaction Info2 EBTWIC 0B

Bytes	Description	Contents
1	Op-code	70 - Info2 Transaction
1	Function	0x99
1	Subopcode	0x0B EBTWIC INFO TRAN TICKET TAX
1	Tax Number	
4	Taxable amount	
4	Tax Amount	
32	Not Used	
20	Tail	
64	Total	

0x99 Transaction Info2 EBTWIC 0C

Bytes	Description	Contents
1	Op-code	70 - Info2 Transaction
1	Function	0x99
1	Subopcode	0x0C EBTWIC INFO TRAN TICKET TAX DETAILS
7	PLU Code	BCD
1	Flag1	bit 0 - FS payment bit 1 - Cost Plus bit 2 - Non Merchandise bit 3 - Negative bit 4 - Discount Allowed bit 5 - Not Used bit 6 - Not Used bit 7 - Not Used
1	Tax Ptr	
1	Multi Sell Unit	
4	Amount	
4	Return Surcharge Percent	
4	Quantity	
2	Department	
17	Not Used	
20	Tail	
64	Total	

0x99 Transaction Info2 EBTWIC 20

Bytes	Description	Contents
1	Op-code	70 - Info2 Transaction
1	Function	0x99
1	Subopcode	0x20 EBTWIC INFO TRAN BENEFITS LIST
1	Type	0x01 - Original Benefits 0x02 - Eligible Benefits 0x03 - Ending Benefits 0x04 - Next period benefits
1	SubType	0x01 - Header 0x02 - Details
INFO1	EBTWIC Benefits Header	
2	Number of detail records	
10	PAN	BCD
1	PAN Length	PAN number length (0-99)
2	State Code	
4	End Date	BCD YYYYMMDD
2	Block Count	
2	Compressed Buffer Size	
2	Uncompressed Buffer Size	
14	Not Used	
INFO2	EBTWIC Benefits Detail	
2	Record Number	
1	Number of bytes	
36	Benefits list data	

20	Not Used
64	Total

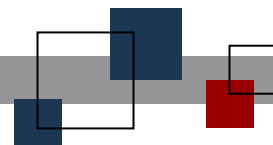
0x99 Transaction Info2 EBTWIC 99

Bytes	Description	Contents
1	Op-code	70 - Info2 Transaction
1	Function	0x99
1	Subopcode	0x99 EBTWIC INFO TRAN TICKET END
2	POS Number	BCD
10	PAN	BCD
1	PAN Length	PAN number length (0-99)
2	State Code	
1	State FIPS	Hex
2	State Code Length	
4	Session Date	BCD YYYYMMDD
3	Session Time	BCD HHMMSS
16	Not Used	
20	Tail	
64	Total	

B0 New Sequence Number

The New Sequence Number Opcode is used when testing for problems with the sequence number in the transaction file.

Bytes	Description	Contents
1	Op-code	B0 - Transaction New Sequence Number
1	Type	1 - New Seq After EOD 2 - New Seq After Cold Start 3 - New Seq After Reset Transaction
42	Data	
20	Tail	
64	Total	



© StoreNext Retail Technologies LLC 2011

StoreNext Retail Technologies LLC endeavors to ensure that the information in this document is correct and fairly stated but does not accept liability for any error or omission.

The development of StoreNext products and services is continuous and published information may not be up to date. It is important to check the current position with StoreNext. This document is not part of a contract or license save insofar as may be expressly agreed.