

Interface Specification

WaiterPad System

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22 nd February 2012	1.22	Added Card line type
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16 th April 2014	1.28	Added Adjustment line type to doco
17 th November 2016	1.29	Correction to packet header fields to match the examples.



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2. Data Type Definitions

Type Name	Equivilant c data type	Description
UInt8	unsigned char	8 bit unsigned
UInt16	unsigned short	16 bit unsigned
UInt32	unsigned long	32 but unsigned
Int8	signed char	8 bit signed
Int16	signed short	16 bit signed
Int32	signed long	32 but signed
String	char[??]	Specified length character array
PString	Uint8 (datalen)	Variable Length String, uses a Uint8 followed by a String of
	char[] (data)	the length specified by the Uint8.
ZString	Char[] (null)	Variable Length String, uses a Null (0) terminating character
		to mark the end of the text



3. Glossary of Terms

Term	Description		
	•		
Big Endian	Refers to byte ordering in a system. PC's use big endian format (also called network byte order). The network controller ncd database files are stored in little endian format. All TCP communications are performed in big endian format.		
	For example, a 32 bit value of 0x10203040 would be stored as follows		
	Increasing memory address →		
	Big Endian (network byte order) [0x10] [0x20] [0x30] [0x40] Little Endian [0x40] [0x30] [0x20] [0x10]		
Chase Note	A chase note, or chase status is a status applied to a sale item on the WaiterPad which indicates the item was previously ordered but has not been delivered yet. It is basically used to query the status of an item with the kitchen. Chase items are designed to be printed to on the kitchen dockets, but not to be stored on the actual order.		
Child Product	A child product is a classification for a PLU. Child product plus automatically attach to the nearest parent product above it. They are considered a sub component of the parent product. For Example T-Bone Steak		
Cooking Instruction	A cooking instruction is a sub classification for a PLU. It is considered part of the child product classification. Cooking instruction PLUs are intended not to have a price. Examples would be PLUs specifiying how to cook a steak eg: 'Medium Rare', 'Rare', 'Well Done' etc.		
Condiment	A condiment is a sub classification for a PLU. It is considered part of the child product classification. Condiment PLUs may have a price. Examples would be PLUs specifying what sauces to have with a steak eg: 'BBQ', 'Hickory', 'Pepper' etc.		
Covers	Covers refer to the number of guests/patrons on a table. A table with 2 covers simply means there are 2 people sitting at that table.		
Custom Message	A custom message is a sub classification for a sale item. It is considered part of the child product classification. Custom Message sales do not have a price, and are not actually PLUs. They are custom created messages from the WaiterPad. These are usually used when a PLU does not exist to satisfy the required message.		
Custom Product	A custom product is a sub classification for a sale item. It is considered part of the parent product classification. Custom Product sales are not actually PLUs. They are custom sale items from the WaiterPad. The price, group, tax and printer options are specified at the time the custom product is created. These are usually used when a PLU does not exist to satisfy the required message, or perhaps a special meal is being made that does not exist on the menu.		
KP Docket	Refers to an order docket printed in the kitchen which specifies what the staff are required to prepare. This does not exclusively refer to orders for the kitchen, but generally encompasses any orders prepared by staff in the kitchen, bar or elsewhere.		
KP Printer	Refers to a printer used to print KP dockets.		
Little Endian	Refers to byte ordering in a system. The network controller ncd database files are stored in little endian format. PC's use big endian format (also called network byte order). All TCP communications are performed in big endian format.		
	For example, a 32 bit value of 0x10203040 would be stored as follows Increasing memory address →		



	Big Endian (network byte order) [0x10] [0x20] [0x30] [0x40] Little Endian [0x40] [0x30] [0x20] [0x10]
Main Group	Main group is the top level classification for groups. Printing/Reporting groups belong to a main group. For Example
	Food Main Group
	Entrees
	Mains ← Printing/Reporting Group
	Desserts
	Beverage ← Main Group
	Beers ← Printing/Reporting Group
	Cold Drinks ← Printing/Reporting Group
Message	A message is a sub classification for a PLU. It is considered part of the child product classification. Message PLUs do not have a price. Examples would be PLUs specifying
	what how to serve a steak eg: 'Serve As Main', 'No Onion' etc
Parent Product	A parent product is a classification for a PLU. Parent product plus are considered the base/top level product. Child products attach to parent products. For Example
	T-Bone Steak parent product
	Medium Rare ← child product
	Pepper Sauce ← child product
PLU	PLUs are the core sale items in the system. PLUs are classified into product classes
	and contain all the price, group, printing and configuration options for the sale.
Printer Map	A printer map is a method or routing printers from one to another. For example, let's
·	say we have a restaurant with two floors, and a kitchen on each floor. The menu for
	both floors is the same, however each respective kitchen is responsible for making the
	meals for the floor it is on. A printer map could be used so that waiters who are serving
	tables on the top floor will have their kitchen dockets printed to the top floor kitchen,
	while waiters on the ground floor will have their orders printed to the lower kitchen.
Printing Group	Printing group is the second level classification for groups. Each printing group belongs to a parent Main Group. Printing Groups and Reporting Groups are from the same set
	of minor groups, however printing group refers is the group name printed on kitchen
	dockets for the sale, whereas reporting group refers to the group that reporting figures are recorded against for the sale.
	For Example
	Food Main Group Entrees Printing/Reporting Group
	Entrees ← Printing/Reporting Group Mains ← Printing/Reporting Group
	Desserts ← Printing/Reporting Group
	Beverage Main Group
	Beers ← Printing/Reporting Group
	Cold Drinks ← Printing/Reporting Group
Product Class	Product Class refers to the sub-classification of a PLU item. Product class controls how
	PLU sale items are linked, printed and generally processed. The following are product
	classes.
	Standard Product
	Side Dish
	Condiment
	Cooking Instruction
	Message
	Custom Product (assigned to custom plus created during ordering phase)
	Custom Message (assigned to custom messages created during ordering)
	phase)
Reporting Group	Reporting group is the second level classification for groups. Each reporting group
belongs to a parent Main Group. Reporting and Printing Groups are from t	
	of minor groups, however reporting group refers to the group that reporting figures are
	1 of thinks, groups, nowever reporting group refers to the group that reporting lightes are



	recorded against for the	and whomas printing group refere is the group name printed	
	recorded against for the sale whereas printing group refers is the group name printed		
	on kitchen dockets for the	ne sale.	
	For Example		
	Food	← Main Group	
	Entrees	← Printing/Reporting Group	
	Mains	← Printing/Reporting Group	
	Desserts	← Printing/Reporting Group	
	Beverage	← Main Group	
	Beers	← Printing/Reporting Group	
	Cold Drinks	← Printing/Reporting Group	
Sale Modifier	item. For example, conv shot of spirits into a dou	A sale modifier refers to PLU sale modifiers that change the serving type of a sale item. For example, converting a normal glass of beer into a Pint of beer, or a normal shot of spirits into a double shot. A sale modifier generally only changes the description and price of a sale, but can also change the printing group and product class.	
Service Location	A service location is a classification for a type of order and/or range of that type. A single service location can be made up of multiple types and ranges, however there cannot be any overlap between different service locations. Some examples of service locations are Inside Tables – Tables 1 – 65, and Tables 80-90 Outside Tables – Tables 101-150 Bar Orders – All bar orders		
	Service locations are commonly used when configuring various areas of functions and reporting with POS systems.		
Side Dish	classification. Side Dish	A side dish is a sub classification for a PLU. It is considered part of the child product classification. Side Dish PLUs may have a price. Examples would be PLUs specifying what sides to have with a steak eg: 'Salad', 'Veges' etc	
Standard Product	A standard product is a sub classification for a PLU. It is considered part of the parent product classification. Standard products are the most common form of PLU. These are items that are in themselves a standalone sale. They may or may not have child items attached. A few examples would be 'T-Bone Steak', 'Corona', 'Garlic Bread'.		

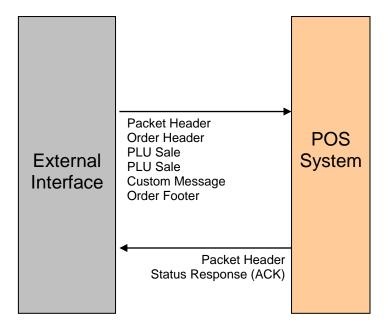


4. TCP Communication (NC/POS) Packet Formats

4.1. WaiterPad Orders (one-way)

4.1.1 Communication Flow Example

Assuming the WaiterPad has an order of two PLUs to send to the POS, it would send the following.





4.1.2 Packet Header

All TCP communications start with a packet header. The header format is as follows:

Data Type	Data (ascii code)	Description
Uint8	0	Sync Bytes 1 of 4
Uint8	255	Sync Bytes 2 of 4
Uint8	0	Sync Bytes 3 of 4
Uint8	255	Sync Bytes 4 of 4
Uint16	LineType*	Header Type (see defines below)
Uint8	64	Internal
Uint8	64	Internal
Uint8	0	Internal
Uint8	DeviceType*	Device Type (see defines below)
Uint16	DataLen	Length of data block to follow

LineTypes

SVR_NC_DATA 12001 (0x2E 0xE1) Use this for messages you send to POS SVR POS DATA 12002 (0x2E 0xE2) Expect this for messages you receive from POS

DeviceType

DEVICE_EXTERNAL 9

The packet header above preceeds a series of smaller records which make up the data block. The datalen field of the packet header specifies the length of the entire data block (which contains the series of smaller records)

As the data length is part of the packet header, if the TCP library chooses to internally break the overall data into smaller packets, this will be handled without fault, as the packet will not be considered complete until the data length + header length (12 bytes) has been reached.

For all Packet Headers that you generate as part of a message you are sending to the POS terminal, you must use Line Type 12001 (0x2E, 0xE1).

All Packets Headers contained within messages that you receive back from the POS terminal will contain Line Type 12002 (0x2E, 0xE2).



4.1.3 Order Header

All sale based packets (ie when ordering PLU items) must be encapsuated by an Order Header and Order Footer.

Data Type	Data (ascii code)	Description
Uint8	01	lineType for a Header Record
Uint16	18	Block length of header data to follow
Uint8	Comms Version*	Communications Protocol Version Number for Orders
Uint16	Sequence*	Order Sequence Number (0-65000)
Uint16	Clerk ID	ID of clerk placing the order
Uint8	Order Type	The order type (1 = table, 2 = tab)
Uint16	Table / Tab Number	Table / Tab Number
Uint8	Bill Number	Bill Number the order is for (0=default bill, 1+ = bill number)
Uint16	Covers	Number of covers/guests on the table
Uint8	Status*	See defines below (bit flags)
Uint8	Printer Map ID	Printer Map ID to apply (0 = no printer map)
Uint8	Auto Price Receipt	Print a receipt (0 = false, 1 = true)
Uint16	Printer Number	Printer ID to print receipt too, if applicable
Uint16	WP Device ID	WaiterPad Device ID (0-65535)

^{*} Sequence number must be unique per order header. Once sequence reaches 65000 limit, it should loop back to 1. If no response is received for a packet containing an order, the sequence number is used to check for duplicates if it has been resent. Sequence number will only ever come through as 0 when the network controller has been reset. The POS must only perform sequence number validation on sequence numbers greater than 0.

The current WaiterPad Order communications version number is 1.

No Status	0000000b
Reserved	00000001b
Reserved	00000010b
Reserved	00000100b
Print Order To KPs	00001000b

^{*} Comms Version represents the current communications format revision for WaiterPad Orders. Note: This is a separate version number applicable to orders only, the two-way comms version is separate. If a different comms version is detected, it means an incompatible version of the WaiterPad handheld or Network Controller software is currently being used.



4.1.4 PLU Sale

Specifies a PLU sale as part of an order.

Data Type	Data (ascii code)	Description	
Uint8	02	lineType for a PLU Record	
Uint16	* <variable></variable>	Block length of the data to follow	
Uint8	Product Class*	The product class of the sale (parent / child)	
Uint32	PLU	PLU Number (1 - 4,000,000,000)	
Uint8	Quantity	Quantity of sale	
Uint8	Price Level	Price level of sale	
Uint8	Modifier ID	Sale Modifier ID applied to sale (0 = no modifier, 1+ = modifier ID)	
Uint8	Seat	Seat Number of sale (if applicable)	
Uint8	Group ID	Printing Group override	
Pstring	Price	Price override (decimal)	
Uint16	Status*	See Below (bit flags)	
Uint32	wpIndexNum	Unique record identifier for sale. (must be unique for the life of the table)	

^{*}The length of the packet varies depending on the size of the Pstring(s).

- 1 Standard Product (parent)
- 2 Side Dish (child)
- 4 Condiment (child)
- 5 Cooking Instruction (child)
- 7 Message PLU (child)

Voided Item	00000001b	// item is voided
Chase Item	00000010b	<pre>// item is chased (not actually ordered)</pre>
Weighed Item	00000100b	// needs a weight docket
Reserved	00001000b	// reserved
Don't Print	00010000b	// don't print item to KPs
Price Override	00100000b	// has a price override
Group Override	01000000b	// has a group override

^{*} Product Class: This specifies the type of PLU item. Valid values are as follows. Child PLU types attach to parent PLU types.



4.1.5 Custom Product

Specifies a custom sale (no plu) with a price as part of an order.

Data Type	Data (ascii code)	Description
Uint8	03	lineType for a PLU Record
Uint16	* <variable></variable>	Block length of the data to follow
Uint8	Quantity	Quantity of sale
Uint8	Seat	Seat Number of sale (if applicable)
Uint8	Group ID	Printing Group
Pstring	Price	Price (decimal)
Pstring	Product Name	Name of the Custom Product
Uint16	Status	See Below (bit flags)
Uint16	KP Printers*	KP Printer mask (use bit number for printer number)
Uint32	wpIndexNum	Unique record identifier for sale. (must be unique for the life of the table)

^{*}The length of the packet varies depending on the size of the Pstring(s).

Voided Item	0000001b	// item is voided
Chase Item	0000010b	<pre>// item is chased (not actually ordered)</pre>
Weighed Item	00000100b	// needs a weight docket
Reserved	00001000b	// reserved
Don't Print	00010000b	// don't print item to KPs
Reserved	00100000b	// reserved
Reserved	01000000b	// reserved

^{*} KP Printers is a bit mask representing which kp printers the item is to be printed too. For example, a value of 11 (1011b) would be printers 1, 2 and 4.



4.1.6 Custom Message

Specifies a custom message as part of an order.

Data Type	Data (ascii code)	Description
Uint8	04	lineType for a PLU Record
Uint16	* <variable></variable>	Block length of the data to follow
Uint8	Quantity	Quantity of sale
Uint8	Seat	Seat Number of sale (if applicable)
Pstring	Message Text	Custom Message Text
Uint16	Status	See Below (bit flags)
Uint16	KP Printers*	KP Printer mask (use bit number for printer number)
Uint32	wplndexNum	Unique record identifier for sale. (must be unique for the life of the
		table)

^{*}The length of the packet varies depending on the size of the Pstring(s).

Voided Item 00000001b // item is voided	
Chase Item 00000010b // item is chased	<pre>(not actually ordered)</pre>
Weighed Item 00000100b // needs a weight of	docket
Reserved 00001000b // reserved	
Don't Print 00010000b // don't print iter	m to KPs
Reserved 00100000b // reserved	
Reserved 01000000b // reserved	

^{*} KP Printers is a bit mask representing which kp printers the item is to be printed too. For example, a value of 11 (1011b) would be printers 1, 2 and 4.



4.1.7 Card

Specifies a card to be attached to the order. Must be part of an order (ie a record that is encapsulated by an order header and order footer).

Data Type	Data (ascii code)	Description
Uint8	5	lineType for a card record
Uint16		Block length of the data to follow (2 + CardLen)
Uint8	Card Type	Type of card (2 = member card)
Uint8	Card Len	Length of the card string data to follow
String[CardLen]	Card Data	Card track data

Member Card Format

<six zeros>11<six digit member number><two zeros>

Card Data Example: 0000001100000200 would represent member 000002 Card Data Example: 0000001100123400 would represent member 001234



4.1.8 Adjustment (Discount / Surcharge)

Specifies an adjustment as part of an order.

Data Type	Data (ascii code)	Description
Uint8	06	lineType for an Adjustment record
Uint16	* <variable></variable>	Block length of the data to follow
Uint16	ID	Adjustment ID
Uint32	wpIndexNum*	WaiterPads Unique record identifier for the selected item sale (if applicable).
Uint32	posIndexNum*	POS's unique index identifier for the selected item sale (if applicable).
Pstring	posTerminalID*	POS's terminal id for the selected item sale (if applicable).
Uint8	Watch Override Count	The number of adjustment watch overrides to follow

{ repeat Watch Override Count times

Uint16	Watch ID*	The ID of the adjustment watch
Pstring	RewardAmount*	Reward value of the watch (blank if not applicable)
Pstring	RewardPercentage*	Percentage value of the watch (blank if not applicable)
,		

*The length of the packet varies depending on the size of the Pstring(s).

*wpIndexNum refers to the wpIndexNum of the selected item used by the adjustment (if applcable). Use 0 (null) if its not a selected item adjustment. (See concepts section on unique item identifiers for more information)

*posIndexNum refers to the posIndexNum of the selected item used by the adjustment (if applicable). Use 0 (null) if its not a selected item adjustment. (See concepts section on unique item identifiers for more information)

*posTerminalID refers to the posTerminalID of the selected item used by the adjustment (if applcable). Use blank string (2 spaces) if its not a selected item adjustment. (See concepts section on unique item identifiers for more information)

*WatchID refers to the unique watch identifier as specified in the XML specification for adjustment watches. This should be 0 if the adjustment uses adjustment level rewards, or the watch ID if the adjustment uses requirement level rewards. (see concepts section on adjustments for more information).

*Reward Amount specifies the fixed amount of an adjustment as determined by the WaiterPad (if applicable). This value is expected as a string representing the amount, therefore a value of \$1.00 would be sent as the string 1.00

*Reward Percent specifies the adjustment percentage entered by the user on the WaiterPad (if applicable). This value is expected as a string representing the percentage, therefore a value of 10% would be sent as the string 10, a value of 8.25% would be sent as the string 8.25.



4.1.9 Text Stamp

Specifies a text stamp as part of an order.

Data Type	Data (ascii code)	Description
Uint8	07	lineType for a Text Stamp Record
Uint16	* <variable></variable>	Block length of the data to follow
Uint32	ID	Text Stamp ID
PString	Message Text	User entered text for the text stamp.

^{*}The length of the packet varies depending on the size of the Pstring(s).



4.1.10 FastPay Payment

Specifies a payment. If the payment is being sent as part of an order (fastPay), then it must be encapsulated by an order header and order footer. There is no verification of payment value vs order value for fastPay. If the payment is being sent seperately, it does not require and order header and footer, however it will now be treated as a payment request and as such will follow request transmission rules (two-way comms).

Data Type	Data (ascii code)	Description
Uint8	08	lineType for fastpay payment record
Uint16	* <variable></variable>	Block length of the data to follow
Uint8	Media Number	Media ID that payment is being made with
Pstring	Payment Amount*	Amount of the payment (Decimal)
Pstring	Tip Amount*	Extra tip amount to be added (if applicable) (decimal)
Pstring	Subtotal*	Assumed subtotal of the order (decimal)
Uint16	Status (bit flag)	See below
Uint8	Printer Num	Printer number for receipt (0 = pos default receipt printer)

^{*}The length of the packet varies depending on the size of the Pstring(s).

The payment Pstrings are in decimal format. For example, to a payment amount of 123.45 is sent as (pstring would look like)

```
Uint8 6 // len of the string data being sent String 123.45 // string data
```

PrintBill	0x01	00000001	Print	а	receipt	
PrintPaymentReceipt	0x02	00000010	Print	а	payment	slip



4.1.11 Order Footer

All order based packets (ie sending PLU orders) must be encapsuated by an Order Header and Order Footer.

Data Type	Data (ascii code)	Description
Uint8	15	lineType for the order footer
Uint16	0	Block length of the data to follow



4.1.12 Comms Status Response

Specifies a status response as an acknowledgement of an order. POS will always return a status response to any order based packet.

Data Type	Data (ascii code)	Description
Uint8	Response Value	Response Value (see below)
Uint16	0	Reserved

Valid response values from POS for orders from the WaiterPad

ACK 242 // packet was received successfully

NAK 243 // an unknown error occurred with the packet data

If no response is received from the POS within 15 seconds, a timeout will occur.



4.2. XML Formats

4.2.1 PLU's

```
<?xml version="1.0" encoding="windows-1252" ?>
<atp xmlns:atp="http://xml.palmteg.com/atp">
<transaction>
  Database Table
   <row id="1">
                                                               PLU Number
    <col name="LongDescription">Garlic Bread</col>
                                                               Long Description (32 char max) [1]
    <col name="TillDescription">Garlic Bread</col>
                                                               Till Description (16 char max) [2]
    <col name="ReportingGroup">1</col>
                                                               Reporting Group Number [3]
    <col name="PrintingGroup">1</col>
                                                               Printing Group Number [3]
    <col name="Class">1</col>
                                                               Product Class [4]
    <col name="CourseBreakID">1</col>
                                                               Course Break ID
    <col name="LookupWindowID">1</col>
                                                               ID of Lookup Window [11]
    <col name="OrderNote">Baked garlic bread!</col>
                                                               Order Note (512 char max) [5]
    <col name="Printers">00000009</col>
                                                               Printers (bit mask) [6]
    <col name="Flags1">00000000</col>
                                                               Flags 1 (bit mask) [7]
    <col name="Flags2">00000000</col>
                                                               Flags 2 (bit mask) [8]
    <col name="StockCountdown">False</col>
                                                               Is this a Stock Countdown PLU?
    <col name="TaxableServiceLocation">0</col>
                                                               Taxable Service Location [9]
   </row>
  Database Table
   <row id="1">
                                                               Internal Record ID (increment per record)
    <col name="PLU">1</col>
                                                               The PLU who's price is being specified
    <col name="PriceSchemeID">0</col>
                                                               Price Scheme (ID) being used [10]
    <col name="ModifierID">0</col>
                                                               Modifier this price applies to [10]
    <col name="PriceLevel">1</col>
                                                               Price Level for this price [10]
    <col name="Price">500</col>
                                                               Actual Price (cents)
   </row>
  </transaction>
</atp>
```

- 1. Long Description (32 Character Max) This is the text displayed on the ordering window on the WaiterPOS as well as on the printed receipts.
- 2. Till Description (16 Character max) This is the text displayed on the Pole Display if one is used.
- 3. Reporting Group is the group number under which the PLU figures are reported. Printing group is the group name that the PLU is printed under on the KP dockets. These must match existing group numbers in the Minor Groups configuration.
- 4. Product Class is the type of product the item is. This affects how the item is printed and whether it can have a price. Child products are linked to the Parent product above it when items are orderd on the POS or WP.
 - 1 Standard Product (Parent Product)
 - 2 Side Dish (Child Product)
 - 4 Condiment (Child Product)
 - 5 Cooking Instruction (Child Product)
 - 7 Message (Child Product, no Price)
- 5. Order Note is a description of the product which is accessible on the Waiterpad by clicking the [note] icon next to the product, or by using the product enquiry key on the WaiterPOS. This field is usually only used on occasion to describe a certain cocktail or special of the day.



6. Printers is a bitmask of which printer(s) the PLU prints to. The value stored in the XML printer field is the 32 bit hex value of the printer code. Eg **00000009** is printer 1 and 4 only.

•	0 = No printers	(000000000000000b)	00000000h
•	1 = Printer 1 only	(000000000000001b)	00000001h
•	2 = Printer 2 only	(000000000000010b)	00000002h
•	3 = Printer 1 and 2 only	(000000000000011b)	00000003h
•	4 = Printer 3 only	(0000000000000100b)	00000004h
•	4 = Printer 1 and 4 only	(0000000000001001b)	00000009h

- Etc up to printer 16 max
- 7. Flags 1 is the hex value of the PLU flags group 1 to 4. (See flags below)
 - Format = 0000 (pos flag 2) (pos flags 1)
 - Example = **00004001** = pluAffectsTax1 and pluSendToNC
- 8. Flags 2 is the hex value of the PLU flags group 5 to 8. (See flags below)
 - Format = 0000 (wp flag 1) (nc flag 1)
 - Example = 0000C020 = plu6PromptForPrice, plu6PromptForQuantity and plu1UseThisGroup
- 9. Taxable Service Location is the override service location ID that the order tax calculation should use if this PLU is ordered. (0 = no override)

Flags Section		Binary	Hex	Posse	etup Flag Description	
POS flag						
pluAdjustment1		10000000b	80h	_	stment 4 Item	
pluAdjustment2		01000000b	40h	_	stment 3 Item	
pluAdjustment3		00100000b	20h	Adjus	stment 2 Item	
pluAdjustment4		00010000b	10h	Adjus	stment 1 Item	
Not Used		00001000b	08h			
Not Used		00000100b	04h			
Not Used		00000010b	02h			
Not Used		00000001b	01h			
POS flag	2					
_		10000000b	80h	חדוו ד	Dramata for Drice	
pluPromptForPrice		01000000b	40h		Prompts for Price S sent to Network Controller	
pluSendToNC						
pluRollPriceOnReceipts		00100000b	20h	Child	l prices combine to parent on	
receipts		000100001	1.01			
pluPriceByWeight		00010000b			Price is calculated by weight	
pluSpecialOfTheDay		00001000b	08h	-	al of the Day	
1 1 2 - 1		00000100b	04h	_	ots for Quantity	
1		00000010b	02h	Allow Negative Price		
pluBarStockPLU 00000		00000001b	01h	Use a	s BarStock PLU?	
POS flag	3					
Reserved		1000000	00b	80h		
pluDontPromptForSeat		0100000	01000000b		Don't prompt for seat number	
Reserved		0010000	00100000b			
pluScalePLU		0001000	00010000b		Reads scale to determine weight	
pluDontAllowSaleAtZeroPrice 00001000b			00b	08h	Cant be sold for zero value	
pluNotPar	s 0000010	00b	04h	PLU is not part of any course break		
pluNotUsed		0000001	10b	02h		
_						

NC flag 1

plu1TicketPLU 10000000b 80h Ticket PLU

00000001b

pluNonExportablePLU

01h

Non Exportable PLU



plu1WeightDocket	01000000b	40h	Print Separate Price by Weight docket
plu1UseThisGroup	00100000b	20h	Modify Parents printing group
plu1PrintModifier	00010000b	10h	Print Modifier Order Text
plu1UseOwnPrinters	00001000b	08h	Use own Printer Code (Child products only)
pluNotUsed	00000100b	04h	Not used (was formerly Product Countdown)
plu1ParentUsesMyPrinter	00000010b	02h	Parent uses childs printers
plu1DontConsolidate	00000001b	01h	PLU doesnt get consolidated for printing
WP flag 1			
•			
plu6PromptForPrice	10000000b	80h	Prompts for Price?
plu6PromptForQuantity	01000000b	40h	Prompts for Quantity?
plu6InactivePLU	01000000b	20h	PLU is inactive

10. Prices are defined for each PLU per Price Level, per Modifier, per Price Scheme. A price Scheme of 0 is default, and a modifier ID of 0 is "unmodified". Price levels supported are 1 through 9. As such, a single PLU can be expected to contain many of these records defining its price at the various price levels, per modifier, per price scheme.

Price Level 0 = PLU Cost Price

Price Level 1 - 9 = PLU Prices 1 to 9

Price Level 10 = PLU Set Price (used as base price for price by weight items.)



4.2.2 Minor Groups (Printing / Reporting)

4.2.3 Main Groups



4.2.4 Sale Modifiers

```
<?xml version="1.0" encoding="windows-1252" ?>
<atp xmlns:atp="http://xml.palmteq.com/atp">
<transaction>
  Database Table
                                                              Unique Modifier ID
   <row id="1">
                                                              Modifier Description
    <col name="Description">Double Shot</col>
    <col name="Prefix">DBL</col>
                                                              Modifier Prefix [1]
    <col name="StockMultiplier">2</col>
                                                              Stock Multiplier
    <col name="PriceMode">0</col>
                                                              Price Mode [2]
                                                              Price value for price mode
    <col name="PriceValue">0</col>
                                                              Adjustment group requirement [3]
    <col name="AdjustmentGroupID">8</col>
    <col name="PrivilegeCardID">0</col>
                                                              Privelege card requirement [4]
    <col name="ReportingGroup">0</col>
                                                              Reporting Group Override [5]
    <col name="PrintingGroup">1</col>
                                                              Printing Group Override [6]
    <col name="ProductClass">0</col>
                                                              Product Class Override [7]
    <col name="Flags1">0000000h</col>
                                                              Flags 1 [8]
   </row>
  </transaction>
</atp>
```

- 1. Modifier Prefix This specifies the text that will be added to the front of the PLU order text.
- 2. Price Mode This specifies how the price is calculated for modifier items
 - 0 = Use Modifier Price Table (from POS:PLUPrices table for matching modifier id)
 - 1 = Multiply Price Multiply by the value specified in the PriceValue field
 - 2 = Price Adjustment Adjust the price (+ / -) by the value specified in the PriceValue field
 - 3 = Set Price Set the price to the value specified in the PriceValue field
 - 4 = PLU Modifier Change the PLU number by the offset specified in the PriceValue field.
- 3. Adjustment Group Requirement Only PLU sale items that belong to the specified adjustment group can have the modifier applied to them. (0 = no requirement)
- 4. Privilege Card Requirement The specified privilege card ID must be linked to the order before the sale modifier can be applied to any items. (0 = no requirement)
- 5. Reporting Group Override Currently not implemented, set as 0.
- 6. Printing Group Override Changes the printing group of the item that the modifier is applied to. (0 = no override)
- 7. Product Class Override Changes the product class of the PLU item the modifier is applied to. (0 = no override)
- 8. Modifier Flags



4.2.5 Terminals

```
<?xml version="1.0" encoding="windows-1252" ?>
<atp xmlns:atp="http://xml.palmteq.com/atp">
<transaction>
  Database Table
   <row id="P1">
                                                 Unique Terminal ID (2 digits)
    <col name="Name">POS Terminal 1</col>
                                                  Terminal Description
    <col name="HostName">pos1</col>
                                                  Host Name of the terminal
   <col name="HostIP">192.168.100.101</col>
                                                  IP Address of the terminal
    <col name="Flag1">0000000h</col>
                                                  Terminal flags [1]
   </row>
  </transaction>
</atp>
```

Flag Binary (MSB ←→ LSB) Flag Description

The Backoffice PC flag indicates to menuedit that the terminal entry should not be synchronised to the network controller. This means the network controller will never try to connect to that terminal to send incoming orders to.



4.2.6 Table Ranges

```
<?xml version="1.0" encoding="windows-1252" ?>
<atp xmlns:atp="http://xml.palmteq.com/atp">
<transaction>
                                                 Database Table
  Unique Record ID
   <row id="1">
                                                 Low limit for table range
    <col name="Min"> 1</col>
                                                 High limit for table range
    <col name="Max">100</col>
                                                 Service Location ID
    <col name="Location">1</col>
   </row>
  </transaction>
</atp>
```

Note: The min to max range for each table range should not overlap with any other table range record.