Oracle® Retail XBRi Cloud Services

API Interface Guide Release 18.0 E97689-01

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Primary Author: Barbara Clemmer-Dunn

Contributors: Linda Jean Hall, Karen Bagdasarian

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Contents

Send Us Your Comments	vi
Preface	ix
Audience	ix
Prerequisites	ix
Documentation Accessibility	ix
Related Documents	ix
Customer Support	x
Improved Process for Oracle Retail Documentation Corrections	x
Oracle Retail Documentation on the Oracle Technology Network	x
Conventions	x
Data Flow – Customer Point of Sale to XBRi	
POS Transactional Data	2
XBRi API - XML Interface Specification	3
POS_CANONICAL	
TRANSACTION	
HDR	
LINE Tag	
LDS Tag	
TDS Tag	
Tax Tag	
TND Tag	
PTC tag	33
INFO Tag	37
POS Data Written to XML File	41
Sample XML file:	
Appendix A – Reference Tables	
Transaction Status	
Transaction Type	
HDR Record Code	
LINE Record Code	46
LINE Attribute Code1	
LINE ATTRIBUTE_CODE3	
LDS RECCODE	
TDS RECCODE	
TND RECCODE	
TND ATTRIBUTE_CODE3	
TAX RECCODE	
INFO RECCODE	
Appendix B: Line Voids	
F F	

Scenario 1 (POS does not post voided or voiding records)	54
Scenario 2	
Scenario 3 (POS posts both voided and voiding records)	54
Scenario 4 (POS posts voided and voiding records but only identifies void	
Scenario 5 (Uncorrelated Line Void, no voided record in transaction)	
Appendix C: Layaway, Special Orders, and Send Sale	57
Appendix D: Gift Cards	59
Appendix E: Line Item Examples	61
LINE - SALE (can be considered generic LINE record)	61
LINE - SALE with a Line Discount	61
LINE - SALE, Voided and Voiding	61
LINE - SALE of a Non-Merchandise	62
LINE - RETURN with a Price Override	62
LINE - RETURN with a Line Discount	63
LINE -RETURN, Voided and Voiding	63
LINE - RETURN of a Non-Merchandise	64
LINE - PAYMENT on a House Account (Non_Merchandise record)	64
Appendix F: Tender (TND) Examples	65
TND - Tender, Cash	65
TND - Tender, Debit card	65
TND - Tender, Gift card	65
Appendix G: Examples of Other Records	67
TDS - Transaction Discount	67
TAX - Tax record at Transaction level	67
PTC IN - Petty Cash In	67
PTC OUT - Petty Cash Out	67
INFO - Layaway/Special Order Balance Inquiry	67
Glossary	69

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Preface

XBRi API functionality is designed to provide standard XML definitions for all POS transaction records that are to be loaded into the standard retail/grocery XBRi Data Model. The XBRi API Interface will include an .XSD file (XML Schema Definition). The XML Schema definition is used as a set of rules to which the XML document must conform, thus aiding the customer in validating their XML file design for the XBRi API interface.

Audience

This document is intended for anyone who wants to map the data from their POS system to an XML file to be used as the input to the XBRi data model, including:

- Systems administration and operations personnel
- Systems analysts
- Integrators and implementers
- Business analysts who need information about XBRi Cloud Services processes and interfaces

Prerequisites

- Understanding of the POS data
- Understanding of XML and XSD
- Understanding of the XBRi Data Model
 - Oracle Retail XBRi Cloud Services Core Field Mapping Guide (xbrics-160-fm.pdf) Available in MyOracle support ID 2079594.1

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For more information, see the following documents in the Oracle Retail Document Template Release 15.0 documentation set:

- Oracle Retail XBRi Cloud Services Implementation Guide
- Oracle Retail XBRi Cloud Services Release Notes
- Oracle Retail XBRi Cloud Services Administration Guide
- Oracle Retail XBRi Cloud Services Online Help

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Oracle Retail Documentation on the Oracle Technology Network

Oracle Retail product documentation is available on the following web site: http://www.oracle.com/technetwork/documentation/oracle-retail-100266.html (Data Model documents are not available through Oracle Technology Network. You can obtain them through My Oracle Support.)

Conventions

Navigate: This is a navigate statement. It tells you how to get to the start of the procedure and ends with a screen shot of the starting point and the statement "the Window Name window opens."

```
This is a code sample

It is used to display examples of code
```

Data Flow - Customer Point of Sale to XBRi

The customer's point of sale system generates transactional data. This data is traditionally stored in some type of database.

The customer extracts the transactional data and creates an XML file using element tags that are defined in this document.

The XML data is the POSCanonical.xml input to the XBRi ETL process. Data is delivered by the customer to the Landing Area defined by the technical specifications for an XBRi API implementation. All transactions for an entire store must be delivered in a single XML file, or alternatively, all transactions for each register must be delivered in a single XML file. Every tlog file must be validated against POSCanonical.xsd, and must be accompanied by a trigger file. A trigger file's contents are unimportant, it can be empty, but its name must be the same as the tlog's filename plus ".trg".

The POSCanonical.xsd file will be located in the implementation environment in the following path: /usr/local/DTV/XBR/TRANSFORMS/API/xsl/POSCanonical.xsd The POSCanonical.xml file is synchronized to the ODI database tables and loaded to the XBRi application's pos_staging table. The pos_staging table data will then be propagated to the XBRi database.



XBRi ELT Data Flow diagram

POS Transactional Data

The XBRi API handles all transaction data that are core to the XBRi application. This includes the following transactional data types:

Sales

Returns

Exchanges

Layaways

Special Orders

NoSales

Cancels

PostVoids

PettyCash

House Payments

Tender Exchanges as follows:

- a. Check Cashed
- b. Coupon Cashed
- c. Gift Card Cashed
- d. Gift Certificate Cashed
- e. Merchandise Credit Cashed
- f. BottleSlip Cashed
- g. Lottery Cashed
- h. Coin Slip Cashed
- i. Western Union Cashed
- j. Money Order Cashed
- k. Multi Tenders Cashed

Admin as follows:

- a. Clock In
- b. Clock Out
- **c.** Price Inquiry
- d. Enter Training
- e. Exit Training

XBRi API - XML Interface Specification

The following tables provide details about the XML tags and the elements that comprise them.

POS_CANONICAL

Table 2-1 POS_CANONICAL Tag

Tag	Description					
POS_CANONICAL	This is the only ta Note below: the re <tns:pos_cano< td=""><td colspan="3">Beginning tag for the API file This is the only tag that has an Attribute, that is, the namespace Note below: the required namespace. <tns:pos_canonical xmlns:tns="http://www.oracle.com/micros/canonical/pos"></tns:pos_canonical></td></tns:pos_cano<>	Beginning tag for the API file This is the only tag that has an Attribute, that is, the namespace Note below: the required namespace. <tns:pos_canonical xmlns:tns="http://www.oracle.com/micros/canonical/pos"></tns:pos_canonical>				
				Data Type		
	TRANSACTION	This record encompasses all records pertaining to a given transaction, but contains no actual data at that level.	Yes	Record		

TRANSACTION

Table 2-2 Transaction Tag

Tag	Description
TRANSACTION	Beginning tag for a transaction
	There can be many Transactions within a POS_CANONICAL tag.

Elements	Description	Required	Data Type
HDR	This record contains transaction level data (that is information that applies to the entire transaction as a whole)	Yes	Record
LINE	This record represents items being sold, returned, or being added to or picked up in layaway/special order. Items can be merchandise or non-merchandise, for example shipping or alterations.	No	Record
	There can only be one instance of each element within a <i>LINE</i> tag with the exception of a LDS (Line Discount) record. If multiple line discounts have been applied to this <i>LINE</i> , then additional LDS records must be created.		
TDS	This record represents a non-prorated Transaction discount. Transaction discounts that are prorated to line items are posted on LDS records associated with the <i>LINE</i> record being discounted.	No	Record
	This record may also represent a Store Coupon when being cashed outside of a Sale, Return or Exchange transaction.		
	This record may also represent a discount on a Gift Card.		
	There can only be one instance of each type of element within a <i>TDS</i> tag.		
	Note : The API only allows one transaction discount per <i>TDS</i> record; if multiple transaction discounts have been applied to this transaction, then additional <i>TDS</i> records must be created.		
TAX	This record represents tax applied to this item or to this transaction.	No	Record
TND	This record represents a Tender. Examples of Tender include but not limited to: CASH, DEBIT, CHECK, VISA, AMEX, MERCHANDISE CREDIT, VENDOR COUPON, GIFT CERTIFICATE, MALL GIFT CERTIFICATE, GIFT CARD, HOUSE CARD, CREDIT CARD, EBT, PAPER FOOD STAMPS, WIC, THIRD PARTY INSURANCE, BOTTLE SLIP, COIN SLIP, LOTTERY TICKET, WESTERN UNION, MONEY ORDER, GOVERNMENT VOUCHER.	No	Record

Elements	Description	Required	Data Type
PTC	This record represents a 'petty cash' transaction and can be either a payment into or out of the register.	No	Record
	The API only allows one 'petty cash' In or Out entry per <i>PTC</i> record; if multiple 'petty cash' entries have been made in this transaction, then additional <i>PTC</i> records must be created.		
	There can only be one instance of each type of element within a <i>PTC</i> tag.		
	Note : A <i>PTC</i> transaction should have both a payment record and a corresponding tender record; that is a transaction could have 2 'petty cash in / pay in' payment records and a single tender record.		
INFO	This record represents general information that has no other appropriate element. Examples include Layaway balance inquiry and price inquiry on a merchandise. The API allows multiple <i>INFO</i> records in a transaction.	No	Record

HDR

Table 2-3 HDR Tag

Tag	Description
HDR	Beginning tag for a transaction
	There can only be one instance of a HDR tag within a TRANSACTION tag

HDR	Elements	Description	Required	Data Type	Max Field Length	Valid Values
	DIVISION	Division Number (that is Highest Level of Organization Hierarchy)	Yes	Numeric	10,0	1 – 999999999
		If your organization does not have divisions, default this field value to 1.				
	STORENUM	Store Number	Yes	Numeric	10,0	1 - 999999999
	TRANSDATE	Calendar date of transaction	Yes	Date CCYY- MM-DD	10	Valid date
	TRANSNUM	Transaction Number	Yes	Numeric	10,0	1 - 999999999
	REGNUM	Register Number	Yes	Numeric	10,0	0 - 999999999

HDR	Elements	Description	Required	Data Type	Max Field Length	Valid Values
	TRANSTIME	Transaction start time (military time). If seconds are not available, default seconds to 00.	Yes	Time hhmmss	6	000001 - 240000
	LINENUM	Line Number, unique within Transaction. HDR always zero.	Yes	Numeric	10,0	0
	RECTYPE	Record Type	Yes	String	20	'HDR'
	CASHIERNUM	Cashier Number (person keying the transaction)	Yes	String	20	Default 0
		Note : The number must match this person's cashier number in the master employee table.				
	EMPNUM	Employee Number of a customer who is an employee. Note: The number must match this person's employee number in the master employee table.	No	String	20	Default Null
	CUSTOMER	Customer Number. Note: The number must match this customer's number in the master customer table if one exists.	No	String	60	Default 0
	TRANSSTAT	Transaction Status	Yes	String	10	Error! Reference source not found.
	TRANSTYPE	Transaction Type	Yes	String	10	Error! Reference source not found.
	EMPLOYEE_SAL E_FLAG	Indicator that this transaction is an Employee Sale, Return or Exchange, that is the customer is an employee.	No	String	1	Y/N
	TRAINING_FLA G	Indicator that this transaction rung in training mode.	No	String	1	Y/N
	BUSINESS_DATE	POS Business date of transaction. If business date is not available, default to TRANSDATE.	Yes	Date CCYY- MM-DD	10	Valid date

HDR	Elements	Description	Required	Data Type	Max Field Length	Valid Values
	RECCODE	Record Code gives more information about transaction or record.	Yes	String	10	HDR Record Code
	ATTRIBUTE_CH AR1	Customer Date of Birth – needed for age-restricted items	No	String	254	
	ATTRIBUTE_CH AR2	Tax Exempt ID	No	String	254	
	REASON_TYPE	Reason for a Cancel, Suspend, Post Void or No Sale	No	String	60	
	TAX_CODE	Indicates Tax Exempt ID present in transaction	No	Number	10,0	101 = Present, else 0
	MANUAL_AUT H_CODE	Indicates Manually Authorized Tender in transaction	No	Number	5,0	101 = Present, else 0
	MANUAL_KEYE D_CODE	Indicates Manually Entered Tender in transaction	No	Number	5,0	101 = Present, else 0
	ATTRIBUTE_CO DE2	Indicates direction of funds in EXCHANGE type transaction	No	Number	5,0	Exchange In = 301, Out = 302, Even = 303, else 0
	ATTRIBUTE_CO DE3	Indicates Register lost power mid-transaction	No	Number	5,0	If power lost 301, else 0
	OVERRIDE_AMO UNT	Sum of LINE override amounts.	No	Number	20,5	Always zero*
	DISCOUNT_AM OUNT	Sum of LINE discount amounts.	No	Number	20,5	Always zero*
	EXTENDED_AM OUNT	Sum of LINE extended amounts + sum of TDS transaction discounts.	No	Number	20,5	Always zero*
	TRANS_DISCOU NT_AMOUNT	Sum of TDS discount amounts.	No	Number	20,5	Always zero*
	TENDER_AMOU NT	Sum of TND tender amounts.	No	Number	20,5	Always zero*
	QUANTITY	Sum of LINE quantities.	No	Number	8,3	Always zero*
	AUTH_CODE	Manager ID of authorizing manager for this transaction.	No	String	20	
	ORIG_STORENU M	The store number of the original Post Voided transaction	No	Numeric	10,0	1 – 999999999, if none, default to 0.

HDR	Elements	Description	Required	Data Type	Max Field Length	Valid Values
	ORIG_TRANSDA TE	The transaction date of the original Post Voided transaction	No	Date DD- MON- YYYY	10	Valid date, if none, default to null
	ORIG_REGNUM	The register number of the original Post Voided transaction	No	Numeric	10,0	1 – 999999999, if none, default to 0.
	ORIG_TRANSNU M	The transaction number of the original Post Voided transaction	No	Numeric	10,0	1 – 999999999, if none, default to 0.
	ORIG_CASHIER NUM	The cashier number of the original Post Voided transaction Note: The id must match this person's cashier	No	String	20	If none, default to null.
		number in the master employee table				
	FBNOSALE_FLA G	Flag transaction as being followed by a No Sale transaction.	Yes	String	1	Y/N

Note: The custom fields below can be used to hold Transaction level User Defined information.

Once a custom field at the Transaction level has been assigned a designated purpose, its purpose cannot be varied by Transaction Type (SALE, RETURN, EXCHANGE, and so on) but must be consistent throughout all types of transactions.

For instance, if you were to designate Custom_Char1 (at the Transaction level) as an Invoice number for a Sale, you could not use Custom_Char1 (at the Transaction level) to track a Driver's License # on a Tender Exchange.

By default, Custom Fields are not visible in the XBRi front end. Making them visible is covered in Chapter 8 of the Oracle® Retail XBRi Cloud Services Implementation Guide, available at http://docs.oracle.com/cd/E71330_01/xbri/index.html

- Custom_Num fields are meant to be used for data that will be used to perform mathematical
 calculations (such as sums and counts).
- Codes and number flags that require look ups should be mapped to a Custom_Code or Custom_Flag field not a Custom_Num field.
- If you have numeric data that is purely informational such as a Driver's License number or a phone number map that to a Custom_Char field.

CUSTOM_NUM1	Custom numeric field 1	No	Number	20,5	Default to zero
CUSTOM_NUM2	Custom numeric field 2	No	Number	20,5	Default to zero
CUSTOM_NUM3	Custom numeric field 3	No	Number	20,5	Default to zero
CUSTOM NUM4	Custom numeric field 4	No	Number	20,5	Default to zero

HDR	Elements	Description	Required	Data Type	Max Field Length	Valid Values
	CUSTOM_NUM5	Custom numeric field 5	No	Number	20,5	Default to zero
	CUSTOM_NUM6	Custom numeric field 6	No	Number	20,5	Default to zero
	CUSTOM_NUM7	Custom numeric field 7	No	Number	20,5	Default to zero
	CUSTOM_NUM8	Custom numeric field 8	No	Number	20,5	Default to zero
	CUSTOM_NUM9	Custom numeric field 9	No	Number	20,5	Default to zero
	CUSTOM_NUM1 0	Custom numeric field 10	No	Number	20,5	Default to zero
	CUSTOM_CHAR 1	Custom character fields 1	No	String	100	Default to Null
	CUSTOM_CHAR 2	Custom character fields 2	No	String	100	Default to Null
	CUSTOM_CHAR 3	Custom character fields 3	No	String	100	Default to Null
	CUSTOM_CHAR 4	Custom character fields 4	No	String	100	Default to Null
	CUSTOM_CHAR 5	Custom character fields 5	No	String	100	Default to Null
	CUSTOM_CHAR 6	Custom character fields 6	No	String	100	Default to Null
	CUSTOM_CHAR 7	Custom character fields 7	No	String	100	Default to Null
	CUSTOM_CHAR 8	Custom character fields 8	No	String	100	Default to Null
	CUSTOM_CHAR 9	Custom character fields 9	No	String	100	Default to Null
	CUSTOM_CHAR 10	Custom character fields 10	No	String	100	Default to Null
	CUSTOM_DATE1	Custom dates 1	No	Date CCYY- MM-DD	10	Default to Null
	CUSTOM_DATE2	Custom dates 2	No	Date CCYY- MM-DD	10	Default to Null
	CUSTOM_DATE3	Custom dates 3	No	Date CCYY- MM-DD	10	Default to Null
	CUSTOM_CODE 1	Custom codes 1	No	String	30	Default to Null
	CUSTOM_CODE 2	Custom codes 2	No	String	30	Default to Null

HDR	Elements	Description	Required	Data Type	Max Field Length	Valid Values
	CUSTOM_CODE 3	Custom codes 3	No	String	30	Default to Null
	CUSTOM_CODE 4	Custom codes 4	No	String	30	Default to Null
	CUSTOM_CODE 5	Custom codes 5	No	String	30	Default to Null
	CUSTOM_CODE 6	Custom codes 6	No	String	30	Default to Null
	CUSTOM_CODE 7	Custom codes 7	No	String	30	Default to Null
	CUSTOM_CODE 8	Custom codes 8	No	String	30	Default to Null
	CUSTOM_CODE 9	Custom codes 9	No	String	30	Default to Null
	CUSTOM_CODE 10	Custom codes 10	No	String	30	Default to Null
	CUSTOM_FLAG1	Custom flags 1	No	String	1	Default to Null
	CUSTOM_FLAG2	Custom flags 2	No	String	1	Default to Null
	CUSTOM_FLAG3	Custom flags 3	No	String	1	Default to Null
	CUSTOM_FLAG4	Custom flags 4	No	String	1	Default to Null
	CUSTOM_FLAG5	Custom flags 5	No	String	1	Default to Null
	CUSTOM_FLAG6	Custom flags 6	No	String	1	Default to Null
	CUSTOM_FLAG7	Custom flags 7	No	String	1	Default to Null
	CUSTOM_FLAG8	Custom flags 8	No	String	1	Default to Null
	CUSTOM_FLAG9	Custom flags 9	No	String	1	Default to Null
	CUSTOM_FLAG1	Custom flags 10	No	String	1	Default to Null
	DURATION	The time from the start of the transaction to the end, in hundredths.	Yes	Numeric	8,2	Default to zero
	COUPON_AMO UNT	Sum of coupon \$	No	Numeric	20,5	Always zero*
	DEPOSIT_AMOU NT	Sum of Layaway & Special Order deposits, fees & payments	No	Numeric	20,5	Always zero*
	FEE_AMOUNT	Sum of Fee \$	No	Numeric	20,5	Always zero*
	OTHER_AMOUN T	No longer in use	No	Numeric	20,5	Always zero

HDR	Elements	Description	Required	Data Type	Max Field Length	Valid Values
	TAX_AMOUNT	Sum of Extended Amount on TAX records with VOID_CODE of zero.	No	Numeric	20,5	Always zero*
	CUSTOMER_FIR ST_NAME	Customer First Name	No	String	30	Default to Null
	CUSTOMER_LAS T_NAME	Customer Last Name	No	String	30	Default to Null
	CUSTOMER_AD DR1	Customer's Address	No	String	60	Default to Null
	CUSTOMER_AD DR2	Customer's Address	No	String	60	Default to Null
	CUSTOMER_AD DR3	Customer's Address	No	String	60	Default to Null
	CUSTOMER_CIT Y	Customer's City	No	String	60	Default to Null
	CUSTOMER_STA TE	Customer's State	No	String	60	Default to Null
	CUSTOMER_ZIP CODE	Customer's Zip or Postal Code	No	String	60	Default to Null
	CUSTOMER_CO UNTRY	Customer's Country	No	String	60	Default to Null
	CUSTOMER_PH ONE	Customer's Phone – primary	No	String	60	Default to Null
	CUSTOMER_PH ONE2	Customer's Phone – secondary	No	String	60	Default to Null
	CUSTOMER_EM AIL_ADDR	Customer's Email	No	String	120	Default to Null
	CUSTOMER_CUS TOM1	Customer's custom field 1	No	String	60	Default to Null
	CUSTOMER_CUS TOM2	Customer's custom field 2	No	String	60	Default to Null
	CUSTOMER_CUS TOM3	Customer's custom field 3	No	String	60	Default to Null
	CONFIG_VERSIO N	Configuration Version Number for tracking changes	Yes	String	10,0	V.00.00 initially, increment with changes and releases
	CURRENCY_CO DE	ISO Standard Currency Code for Store Location	Yes	String	3	'USD' for US dollars
	LOYALTY_NUM	Customer's Loyalty number	No	String	60	Default to Null
	BALANCE_AMO UNT	Gift Card or Layaway balance.	No	Numeric	20,5	Default to zero

HDR	Elements	Description	Required	Data Type	Max Field Length	Valid Values
	SHIP_TO_FIRST_ NAME	First name of the Send Sale recipient	No	String	254	Send Sale only
	SHIP_TO_LAST_ NAME	Last name of the Send Sale recipient	No	String	254	Send Sale only
	SHIP_TO_ADDR 1	First line of Send Sale address	No	String	254	Send Sale only
	SHIP_TO_ADDR 2	Second line of Send Sale address	No	String	254	Send Sale only
	SHIP_TO_ADDR 3	Third line of Send Sale address	No	String	254	Send Sale only
	SHIP_TO_CITY	Send Sale city	No	String	254	Send Sale only
	SHIP_TO_STATE	Send Sale state	No	String	30	Send Sale only
	SHIP_TO_ZIPCO DE	Send Sale zip code	No	String	20	Send Sale only
	SHIP_TO_COUN TRY	Send Sale country	No	String	254	Send Sale only
	SHIP_TO_PHON E	Phone number of the Send Sale recipient	No	String	32	Send Sale only
	SHIP_TO_PHON E2	Alternate phone number of the Send Sale recipient	No	String	32	Send Sale only
	SHIP_TO_EMAIL _ADDR	Email address of the Send Sale recipient	No	String	254	Send Sale only
	COMMENTS	Free form comments	No	String	2000	Default to Null
	DELETE_FLAG	Deletes previous timecard.	No	String	1	Y/N
	SELLING_FLAG	Flags timecard as Selling time.	No	String	1	Y/N
	TIMECARDENTR YID	ID of Employee entering timecard	No	Numeric	10	Default to zero
	CLOCK_IN_TIM E	Timecard Start Time	No	Datetime		Default to Null
	CLOCK_OUT_TI ME	Timecard End Time	No	Datetime		Default to Null
	HOURS_WORKE D	Hours worked.	No	Numeric	8,2	Default to zero

^{*} Override_Amount, Discount_Amount, Extended_Amount, Trans_Discount_Amount, Tender_Amount, Fee_Amount, Coupon_Amount, Deposit_Amount, Tax_Amount and Quantity fields in the HDR record are calculated in the database after POSCanonical.xml file has been loaded. POSCanonical.xml should not contain these values.

LINE Tag

Table 2-4 Line Tag

Tag	Description
LINE	Beginning tag for a Line Item being sold, returned, or being added to or picked up in layaway/special order.
	There can be multiple instances of a LINE tag within a TRANSACTION tag.
	Items can be merchandise or non-merchandise, that is, shipping or alterations.
	There can only be one instance of each element within a $LINE$ tag with the exception of a LDS (Line Discount) record. If multiple line discounts have been applied to this $LINE$, then additional LDS records must be created.

LINE	Elements	Description	Required	Data Type	Max Field Length	Valid Values
	LINENUM	Line Number, unique within Transaction.	Yes	Numeric	10,0	1-999999999
	RECTYPE	Record Type	Yes	String	20	Error! Reference source not found.
	RECCODE	Record Code gives more information about transaction or record.	Yes	String	10	LINE Record Code
	VOID_CODE	Indicates void status of record. Not voided = 0, Voided = 1, Voiding = 2	Yes	String	1	0, 1, 2
	SALESPERSONNUM	Salesperson Number (person selling the transaction.) Note: The number must match this person's salesperson number in the master employee table.	No	String	20	
	ACCOUNTNUM	Not used in LINE records	No	String	30	Always null
	ATTRIBUTE_CHAR1	SKU/ITEM Description	No	String	254	

LINE	Elements	Description	Required	Data Type	Max Field Length	Valid Values
	ATTRIBUTE_CHAR2	UPC (Universal Product Code)	No	String	254	
	ATTRIBUTE_CHAR4	Layaway/Special Order Account Number	No	String	254	
	REASON_TYPE	Reason for Return	No	String	60	
	MANUAL_KEYED_CODE	How LINE was entered. Keyed = 1, Swiped = 2, else 0.	No	Number	5,0	0, 1, 2
	ATTRIBUTE_CODE1	Layaway/ Special Order transaction type	No	Number	5,0	LINE Attribute_Code
	ATTRIBUTE_CODE2	Raincheck = 1, Department Key = 2, Price Override = 3, else 0	No	Number	5,0	0, 1, 2, 3
	ATTRIBUTE_CODE3	Item Detail Attributes	No	Number	5,0	LINE ATTRIBUTE_CODE3
	ATTRIBUTE_CODE4	Voiding record = 1, Item Correct = 2, Uncorrelated Line Void = 3, else 0	No	Number	5,0	0, 1, 2, 3
	OVERRIDE_AMOUNT	Sum of override amounts	No	Number	20,5	Default to zero.
	LINE_DISCOUNT_AMOUNT	Sum of <i>LDS</i> discount amounts	No	Number	20,5	Default to zero.
	EXTENDED_AMOUNT	On LINE, extended original amount + extended price override amount + extended discount amount	No	Number	20,5	Default to zero.
	QUANTITY	If Non- merchandise then 0, else quantity of item	No	Number	8,3	Default to zero.
	AUTH_CODE	ID of authorizing manager.	No	String	20	

LINE	Elements	Description	Required	Data Type	Max Field Length	Valid Values
	ORIG_STORENUM	On a RETURN, the store number of the original transaction.	No	Numeric	10,0	1-999999999, default to zero.
	ORIG_TRANSDATE	On a RETURN, the transaction date of the original transaction.	No	Date DD- MON- YYYY	10	Default to null
	ORIG_REGNUM	On a RETURN, the register number of the original transaction	No	Numeric	10,0	1-99999999, default to zero.
	ORIG_TRANSNUM	On a RETURN, the transaction number of the original transaction	No	Numeric	10,0	1-99999999, default to zero.
	ORIG_CASHIERNUM	On a RETURN, the cashier number of the original transaction Note: The id must match this person's cashier number in the master employee table	No	String	20	If none, default to null.
	ORIG_AMOUNT	The original selling price (PLU) of the item.	Yes	Numeric	20,5	Default to zero.
	ITEM	Stock Keeping Unit ID (SKU) for this item. Note: If the POS does not use SKUs; then place the UPC in this field. This field must match the value in the SKU field from the SKU master file.	No	String	60	

LINE	Elements	Description	Required	Data Type	Max Field Length	Valid Values
	MERCH_DEPT	Merchandise Department for item being sold	No	Numeric	60	
	MERCH_CLASS	Merchandise Class for item being sold	No	Numeric	60	
	TAX_MODIFY_CODE	If cashier exempted item from tax then 2, if cashier changed tax then 1, else 0	No	Numeric	10	0, 1, 2
	OVERRIDE_TYPE	Override code from user.	No	String	10,0	
	RETURN_FLAG	Flag record as a Return or not. If RETURN, then Y, else N.	Yes	String	1	Y/N

Note: The custom fields below can be used to hold Transaction level User Defined information.

Once a custom field at the Transaction level has been assigned a designated purpose, its purpose cannot be varied by Transaction Type (SALE, RETURN, EXCHANGE, and so on) but must be consistent throughout all types of transactions.

For instance, if you were to designate Custom_Char1 (at the Transaction level) as an Invoice number for a Sale, you could not use Custom_Char1 (at the Transaction level) to track a Driver's License # on a Tender Exchange.

- Custom_Num fields are meant to be used for data that will be used to perform mathematical calculations (such as sums and counts).
- Codes and numeric flags that require look ups should be mapped to a Custom_Code or Custom_Flag field not a Custom_Num field.
- If you have numeric data that is purely informational such as a Driver's License number or a phone number map that to a Custom_Char field.

CUSTOM_NUM1	Custom numeric field 1	No	Number	20,5	Default to zero
CUSTOM_NUM2	Custom numeric field 2	No	Number	20,5	Default to zero
CUSTOM_NUM3	Custom numeric field 3	No	Number	20,5	Default to zero
CUSTOM_NUM4	Custom numeric field 4	No	Number	20,5	Default to zero
CUSTOM_NUM5	Custom numeric field 5	No	Number	20,5	Default to zero
CUSTOM_NUM6	Custom numeric field 6	No	Number	20,5	Default to zero

LINE	Elements	Description	Required	d Data Type	Max Field Lengt	Valid Values h
	CUSTOM_NUM7	Custom numeric field 7	No	Number	20,5	Default to zero
	CUSTOM_NUM8	Custom numeric field 8	No	Number	20,5	Default to zero
	CUSTOM_NUM9	Custom numeric field 9	No	Number	20,5	Default to zero
	CUSTOM_NUM10	Custom numeric field 10	No	Number	20,5	Default to zero
	CUSTOM_CHAR1	Custom character fields 1	No	String	100	Default to Null
	CUSTOM_CHAR2	Custom character fields 2	No	String	100	Default to Null
	CUSTOM_CHAR3	Custom character fields 3	No	String	100	Default to Null
	CUSTOM_CHAR4	Custom character fields 4	No	String	100	Default to Null
	CUSTOM_CHAR5	Custom character fields 5	No	String	100	Default to Null
	CUSTOM_CHAR6	Custom character fields 6	No	String	100	Default to Null
	CUSTOM_CHAR7	Custom character fields 7	No	String	100	Default to Null
	CUSTOM_CHAR8	Custom character fields 8	No	String	100	Default to Null
	CUSTOM_CHAR9	Custom character fields 9	No	String	100	Default to Null
	CUSTOM_CHAR10	Custom character fields 10	No	String	100	Default to Null
	CUSTOM_DATE1	Custom dates 1	No	Date CCYY- MM-DD	10	Default to Null
	CUSTOM_DATE2	Custom dates 2	No	Date CCYY- MM-DD	10	Default to Null
	CUSTOM_DATE3	Custom dates 3	No	Date CCYY- MM-DD	10	Default to Null
	CUSTOM_CODE1	Custom codes 1	No	String	30	Default to Null
	CUSTOM_CODE2	Custom codes 2	No	String	30	Default to Null
	CUSTOM_CODE3	Custom codes 3	No	String	30	Default to Null
	CUSTOM_CODE4	Custom codes 4	No	String	30	Default to Null
				-		

LINE	Elements	Description	Required	d Data Type	Max Field Lengt	Valid Values h
	CUSTOM_CODE5	Custom codes 5	No	String	30	Default to Null
	CUSTOM_CODE6	Custom codes 6	No	String	30	Default to Null
	CUSTOM_CODE7	Custom codes 7	No	String	30	Default to Null
	CUSTOM_CODE8	Custom codes 8	No	String	30	Default to Null
	CUSTOM_CODE9	Custom codes 9	No	String	30	Default to Null
	CUSTOM_CODE10	Custom codes 10	No	String	30	Default to Null
	CUSTOM_FLAG1	Custom flags 1	No	String	1	Default to Null
	CUSTOM_FLAG2	Custom flags 2	No	String	1	Default to Null
	CUSTOM_FLAG3	Custom flags 3	No	String	1	Default to Null
	CUSTOM_FLAG4	Custom flags 4	No	String	1	Default to Null
	CUSTOM_FLAG5	Custom flags 5	No	String	1	Default to Null
	CUSTOM_FLAG6	Custom flags 6	No	String	1	Default to Null
	CUSTOM_FLAG7	Custom flags 7	No	String	1	Default to Null
	CUSTOM_FLAG8	Custom flags 8	No	String	1	Default to Null
	CUSTOM_FLAG9	Custom flags 9	No	String	1	Default to Null
	CUSTOM_FLAG10	Custom flags 10	No	String	1	Default to Null
	VOLUME	For items sold by volume - gasoline	No	Numeric	10,5	Default to zero
	WEIGHT	For items sold by weight – deli.	No	Numeric	10,5	Default to zero
	LINETIME	Start or end time at LINE level.	No	datetime		Default to zero
	LOYALTY_NUM	Customer's Loyalty number	No	String	60	Default to Null
	RETURN_VERIFY_TYPE	Flag on return item as Verified, Unverified, Blind or '-' (not return)	No	String	1	'V', 'U', 'B', '-'
	SHIP_TO_FIRST_NAME	Ship-to First Name	No	String	254	Default to Null
	SHIP_TO_LAST_NAME	Ship-to Last Name	No	String	254	Default to Null
	SHIP_TO_ADDR1	Ship-to Address	No	String	254	Default to Null
	SHIP_TO_ADDR2	Ship-to Address	No	String	254	Default to Null
	SHIP_TO_ADDR3	Ship-to Address	No	String	254	Default to Null
	SHIP_TO_CITY	Ship-to City	No	String	254	Default to Null

LINE	Elements	Description	Required	Data Type	Max Field Lengtl	Valid Values
	SHIP_TO_STATE	Ship-to State	No	String	30	Default to Null
	SHIP_TO_ZIPCODE	Ship-to Zip or Postal Code	No	String	20	Default to Null
	SHIP_TO_COUNTRY	Ship-to Country	No	String	254	Default to Null
	SHIP_TO_PHONE	Ship-to Phone – primary	No	String	32	Default to Null
	SHIP_TO_PHONE2	Ship-to Phone – secondary	No	String	32	Default to Null
	SHIP_TO_EMAIL_ADDR	Ship-to Email	No	String	254	Default to Null
	COMMENTS	Free form comments	No	String	2000	Default to Null
	LDS	LDS records contain the detail discount information.	No	Record		

LDS Tag

Table 2-5 LDS Tag

Tag	Description
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LDS Beginning tag for a Line Discount record.

There can be multiple instances of a LDS tag within a LINE tag.

There can only be one instance of each type of element within an LDS tag.

LDS	Elements	Description	Required	Data Type	Max Field Length	Valid Values
	LINENUM	Line Number, unique within Transaction.	Yes	Numeric	10,0	1- 9999999999
	RECTYPE	Record Type – if LINE record type is LAYSKU or LAYNM, then LAYLDS, if LAYNM or SONM, then SOLDS, else LDS.	Yes	String	20	LDS, LAYLDS, SOLDS
	RECCODE	Record Code gives more information about transaction or record.	Yes	String	10	Error! Reference source not found.
	VOID_CODE	Indicates void status of record. Not voided = 0, Voided = 1, Voiding = 2	Yes	String	1	0,1,2

LDS	Elements	Description	Required	Data Type	Max Field Length	Valid Values
	ACCOUNTNUM	Coupon serial number or scan code	No	String	30	Default Null
	ATTRIBUTE_CHAR4	Layaway/ Special Order Account Number	No	String	254	
	REASON_TYPE	Discount Reason Code	No	String	60	
	ATTRIBUTE_CODE2	Coupon = 100, double coupon = 101, triple coupon = 102, quadruple coupon = 104, scan guarantee = 103, else 0	No	Number	5,0	0, 100, 101, 102, 103, 104
	LINE_DISCOUNT_AMO UNT	Discount amount.	Yes	Number	20,5	
	AUTH_CODE	Manager ID of authorizing manager for this discount.	No	String	20	

Note: The custom fields below can be used to hold Line Discount level User Defined information.

Once a custom field at the Transaction level has been assigned a designated purpose, its purpose cannot be varied by Transaction Type (SALE, RETURN, EXCHANGE, and so on) but must be consistent throughout all types of transactions.

For instance, if you were to designate Custom_Char1 (at the Transaction level) as an Invoice number for a Sale, you could not use Custom_Char1 (at the Transaction level) to track a Driver's License # on a Tender Exchange.

- Custom_Num fields are meant to be used for data that will be used to perform mathematical
 calculations (such as sums and counts).
- Codes and numeric flags that require look ups should be mapped to a Custom_Code or Custom_Flag field not a Custom_Num field.
- If you have numeric data that is purely informational such as a Driver's License number or a phone number, then map that to a Custom_Char field.

CUSTOM_NUM1	Custom numeric field 1	No	Number	20,5	Default to zero
CUSTOM_NUM2	Custom numeric field 2	No	Number	20,5	Default to zero
CUSTOM_NUM3	Custom numeric field 3	No	Number	20,5	Default to zero
CUSTOM_NUM4	Custom numeric field 4	No	Number	20,5	Default to zero
CUSTOM_NUM5	Custom numeric field 5	No	Number	20,5	Default to zero
CUSTOM_NUM6	Custom numeric field 6	No	Number	20,5	Default to zero
CUSTOM_NUM7	Custom numeric field 7	No	Number	20,5	Default to zero

LDS	Elements	Description	Required	Data Type	Max Field Length	Valid Values
	CUSTOM_NUM8	Custom numeric field 8	No	Number	20,5	Default to zero
	CUSTOM_NUM9	Custom numeric field 9	No	Number	20,5	Default to zero
	CUSTOM_NUM10	Custom numeric field 10	No	Number	20,5	Default to zero
	CUSTOM_CHAR1	Custom character field 1	No	String	100	Default to Null
	CUSTOM_CHAR2	Custom character field 2	No	String	100	Default to Null
	CUSTOM_CHAR3	Custom character field 3	No	String	100	Default to Null
	CUSTOM_CHAR4	Custom character field 4	No	String	100	Default to Null
	CUSTOM_CHAR5	Custom character field 5	No	String	100	Default to Null
	CUSTOM_CHAR6	Custom character field 6	No	String	100	Default to Null
	CUSTOM_CHAR7	Custom character field 7	No	String	100	Default to Null
	CUSTOM_CHAR8	Custom character field 8	No	String	100	Default to Null
	CUSTOM_CHAR9	Custom character field 9	No	String	100	Default to Null
	CUSTOM_CHAR10	Custom character field 10	No	String	100	Default to Null
	CUSTOM_DATE1	Custom dates 1	No	Date CCYY- MM-DD	10	Default to Null
	CUSTOM_DATE2	Custom dates 2	No	Date CCYY- MM-DD	10	Default to Null
	CUSTOM_DATE3	Custom dates 3	No	Date CCYY- MM-DD	10	Default to Null
	CUSTOM_CODE1	Custom codes 1	No	String	30	Default to Null
	CUSTOM_CODE2	Custom codes 2	No	String	30	Default to Null
	CUSTOM_CODE3	Custom codes 3	No	String	30	Default to Null
	CUSTOM_CODE4	Custom codes 4	No	String	30	Default to Null

LDS	Elements	Description	Required	Data Type	Max Field Length	Valid Values
	CUSTOM_CODE5	Custom codes 5	No	String	30	Default to Null
	CUSTOM_CODE6	Custom codes 6	No	String	30	Default to Null
	CUSTOM_CODE7	Custom codes 7	No	String	30	Default to Null
	CUSTOM_CODE8	Custom codes 8	No	String	30	Default to Null
	CUSTOM_CODE9	Custom codes 9	No	String	30	Default to Null
	CUSTOM_CODE10	Custom codes 10	No	String	30	Default to Null
	CUSTOM_FLAG1	Custom flags 1	No	String	1	Default to Null
	CUSTOM_FLAG2	Custom flags 2	No	String	1	Default to Null
	CUSTOM_FLAG3	Custom flags 3	No	String	1	Default to Null
	CUSTOM_FLAG4	Custom flags 4	No	String	1	Default to Null
	CUSTOM_FLAG5	Custom flags 5	No	String	1	Default to Null
	CUSTOM_FLAG6	Custom flags 6	No	String	1	Default to Null
	CUSTOM_FLAG7	Custom flags 7	No	String	1	Default to Null
	CUSTOM_FLAG8	Custom flags 8	No	String	1	Default to Null
	CUSTOM_FLAG9	Custom flags 9	No	String	1	Default to Null
	CUSTOM_FLAG10	Custom flags 10	No	String	1	Default to Null
	COMMENTS	Free form comments	No	String	2000	Default to Null

TDS Tag

Table 2-6 TDS Tag

	Table 2-0 103 Tag
Tag	Description
TDS	Beginning tag for a Transaction Discount record. There can be multiple instances of a <i>TDS</i> tag within a <i>TRANSACTION</i> tag.
	There can only be one instance of each type of element within a TDS tag.

TDS	Elements	Description	Required	Data Type	Max Field Length	Valid Values
	LINENUM	Line Number, unique within Transaction.	Yes	Numeric	10,0	1- 999999999 9
	RECTYPE	Record Type – If <i>TDS</i> is part of a Layaway then LAYTDS, if part of a Special Order then SOTDS, else TDS	Yes	String	20	TDS, LAYTDS, SOTDS
	RECCODE	Record Code gives more information about transaction or record.	Yes	String	10	Error! Reference source not found.
	VOID_CODE	Indicates void status of record. Not voided = 0, Voided = 1, Voiding = 2	Yes	String	1	0,1,2
	ACCOUNTN UM	Coupon serial number	No	String	30	Default to Null.
	ATTRIBUTE_ CHAR4	Layaway/ Special Order Account Number	No	String	254	
	REASON_TYP E	Transaction Discount Reason Code	No	String	60	
	ATTRIBUTE_ CODE1	Layaway/ Special Order transaction type	No	Number	5,0	LINE Attribute _Code
	ATTRIBUTE_ CODE2	Coupon = 100, double coupon = 101, triple coupon = 102, quadruple coupon = 104, scan guarantee = 103, else 0	No	Number	5,0	0, 100, 101, 102, 103, 104
	TRANS_DISC OUNT_AMO UNT	Transaction discount amount.	Yes	Number	20,5	
	AUTH_CODE	Manager ID of authorizing manager.	No	String	20	
	RETURN_FLA G	Flag record as a Return or not. If RETURN, then Y, else N.	Yes	String	1	Y/N

TDS Elements Description Required Date	I I	Max Field Length	Valid Values
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Note: The custom fields below can be used to hold Transaction level User Defined information.

Once a custom field at the Transaction level has been assigned a designated purpose, its purpose cannot be varied by Transaction Type (SALE, RETURN, EXCHANGE, and so on) but must be consistent throughout all types of transactions.

For instance, if you were to designate Custom_Char1 (at the Transaction level) as an Invoice number for a Sale, you could not use Custom_Char1 (at the Transaction level) to track a Driver's License # on a Tender Exchange.

- Custom_Num fields are meant to be used for data that will be used to perform mathematical
 calculations (such as sums and counts).
- Codes and numeric flags that require look ups should be mapped to a Custom_Code or Custom_Flag field not a Custom_Num field.
- If you have numeric data that is purely informational such as a Driver's License number or a phone number map that to a Custom_Char field.

CUSTOM_NUM1	Custom numeric field 1	No	Number	20,5	Default to zero
CUSTOM_NUM2	Custom numeric field 2	No	Number	20,5	Default to zero
CUSTOM_NUM3	Custom numeric field 3	No	Number	20,5	Default to zero
CUSTOM_NUM4	Custom numeric field 4	No	Number	20,5	Default to zero
CUSTOM_NUM5	Custom numeric field 5	No	Number	20,5	Default to zero
CUSTOM_NUM6	Custom numeric field 6	No	Number	20,5	Default to zero
CUSTOM_NUM7	Custom numeric field 7	No	Number	20,5	Default to zero
CUSTOM_NUM8	Custom numeric field 8	No	Number	20,5	Default to zero
CUSTOM_NUM9	Custom numeric field 9	No	Number	20,5	Default to zero
CUSTOM_NUM10	Custom numeric field 10	No	Number	20,5	Default to zero
CUSTOM_CHAR1	Custom character fields 1	No	String	100	Default to Null
CUSTOM_CHAR2	Custom character fields 2	No	String	100	Default to Null
CUSTOM_CHAR3	Custom character fields 3	No	String	100	Default to Null

TDS Eleme	ents De	scription	Required	Data Type	Max Field Length	Valid Values
CUSTO	M_CHAR4	Custom character fields 4	No	String	100	Default to Null
CUSTO	M_CHAR5	Custom character fields 5	No	String	100	Default to Null
CUSTO	M_CHAR6	Custom character fields 6	No	String	100	Default to Null
CUSTO	M_CHAR7	Custom character fields 7	No	String	100	Default to Null
CUSTO	M_CHAR8	Custom character fields 8	No	String	100	Default to Null
CUSTO:	M_CHAR9	Custom character fields 9	No	String	100	Default to Null
CUSTO	M_CHAR10	Custom character fields 10	No	String	100	Default to Null
CUSTO	M_DATE1	Custom dates 1	No	Date CCYY- MM-DD	10	Default to Null
CUSTO	M_DATE2	Custom dates 2	No	Date CCYY- MM-DD	10	Default to Null
CUSTO	M_DATE3	Custom dates 3	No	Date CCYY- MM-DD	10	Default to Null
CUSTO	M_CODE1	Custom codes 1	No	String	30	Default to Null
CUSTO	M_CODE2	Custom codes 2	No	String	30	Default to Null
CUSTO	M_CODE3	Custom codes 3	No	String	30	Default to Null
CUSTO	M_CODE4	Custom codes 4	No	String	30	Default to Null
CUSTO	M_CODE5	Custom codes 5	No	String	30	Default to Null
CUSTO	M_CODE6	Custom codes 6	No	String	30	Default to Null
CUSTO	M_CODE7	Custom codes 7	No	String	30	Default to Null
CUSTO	M_CODE8	Custom codes 8	No	String	30	Default to Null
CUSTO	M_CODE9	Custom codes 9	No	String	30	Default to Null
CUSTO	M_CODE10	Custom codes 10	No	String	30	Default to Null
CUSTO	M_FLAG1	Custom flags 1	No	String	1	Default to Null

TDS Elements De	escription	Required	Data Type	Max Field Length	Valid Values
CUSTOM_FLAG2	Custom flags 2	No	String	1	Default to Null
CUSTOM_FLAG3	Custom flags 3	No	String	1	Default to Null
CUSTOM_FLAG4	Custom flags 4	No	String	1	Default to Null
CUSTOM_FLAG5	Custom flags 5	No	String	1	Default to Null
CUSTOM_FLAG6	Custom flags 6	No	String	1	Default to Null
CUSTOM_FLAG7	Custom flags 7	No	String	1	Default to Null
CUSTOM_FLAG8	Custom flags 8	No	String	1	Default to Null
CUSTOM_FLAG9	Custom flags 9	No	String	1	Default to Null
CUSTOM_FLAG10	Custom flags 10	No	String	1	Default to Null
LINETIME	Start or end time at LINE level.	No	datetime		Default to zero
LOYALTY_NUM	Customer's Loyalty number	No	String	60	Default to Null
COMMENTS	Free form comments	No	String	2000	Default to Null

Tax Tag

Table 2-7 TAX Tag

Tag	Description
TAX	Beginning tag for a TAX record
	There can be multiple instances of a TAX tag within a TRANSACTION tag.
	There can only be one instance of each type of element within a TAX tag

TAX	Elements	Description	Required	Data Type	Max Field Length	Valid Values
	LINENUM	Line Number, unique within Transaction.	Yes	Numeric	10,0	1-9999999999
	RECTYPE	Record Type If taxed item is part of a Layaway, then LAYTAX, if part of a Special Order, then SOTAX, else TAX	Yes	String	20	TAX, SOTAX, LAYTAX

TAX	Elements	Description	Required	Data Type	Max Field Length	Valid Values
	RECCODE	Canadian VAT tax = 301, Canadian PST tax = 302, Canadian HST tax = 303, else 300	Yes	String	10	TAX Reccode
	VOID_CODE	Indicates void status of record. Not voided = 0, Voided = 1, Voiding = 2	Yes	String	1	0,1,2
	ATTRIBUTE_CHAR4	Layaway/ Special Order Account Number	No	String	254	
	ATTRIBUTE_CODE1	Layaway/ Special Order transaction type	No	Number	5,0	LINE Attribute_Co de
	EXTENDED_AMOU NT	Tax amount	Yes	Number	20,5	
	RETURN_FLAG	If tax is paid to the customer then Y, else N	Yes	String	1	Y/N
	TAX_RATE	Tax Rate for this item.	No	Numeric	9,6	

Note: The custom fields below can be used to hold Transaction level User Defined information.

Once a custom field at the Transaction level has been assigned a designated purpose, its purpose cannot be varied by Transaction Type (SALE, RETURN, EXCHANGE, and so on) but must be consistent throughout all types of transactions.

For instance, if you designate Custom_Char1 (at the Transaction level) as an Invoice number for a Sale, you cannot use Custom_Char1 (at Transaction level) to track a Driver's License # on a Tender Exchange.

- Custom_Num fields are meant to be used for data that will be used to perform mathematical calculations (such as sums and counts).
- Codes and numeric flags that require look ups should be mapped to a Custom_Code or Custom_Flag field not a Custom_Num field.
- If you have numeric data that is purely informational such as a Driver's License number or a phone number map that to a Custom_Char field.

CUSTOM_NUM1	Custom numeric field 1	No	Number	20,5	Default to zero
CUSTOM_NUM2	Custom numeric field 2	No	Number	20,5	Default to zero
CUSTOM_NUM3	Custom numeric field 3	No	Number	20,5	Default to zero
CUSTOM_NUM4	Custom numeric field 4	No	Number	20,5	Default to zero
CUSTOM_NUM5	Custom numeric field 5	No	Number	20,5	Default to zero
CUSTOM_NUM6	Custom numeric field 6	No	Number	20,5	Default to zero

TAX	Elements	Description	Required	Data Type	Max Field Length	Valid Values
	CUSTOM_NUM7	Custom numeric field 7	No	Number	20,5	Default to zero
	CUSTOM_NUM8	Custom numeric field 8	No	Number	20,5	Default to zero
	CUSTOM_NUM9	Custom numeric field 9	No	Number	20,5	Default to zero
	CUSTOM_NUM10	Custom numeric field 10	No	Numeric	20,5	Default to zero
	CUSTOM_CHAR1	Custom character fields 1	No	String	100	Default to Null
	CUSTOM_CHAR2	Custom character fields 2	No	String	100	Default to Null
	CUSTOM_CHAR3	Custom character fields 3	No	String	100	Default to Null
	CUSTOM_CHAR4	Custom character fields 4	No	String	100	Default to Null
	CUSTOM_CHAR5	Custom character fields 5	No	String	100	Default to Null
	CUSTOM_CHAR6	Custom character fields 6	No	String	100	Default to Null
	CUSTOM_CHAR7	Custom character fields 7	No	String	100	Default to Null
	CUSTOM_CHAR8	Custom character fields 8	No	String	100	Default to Null
	CUSTOM_CHAR9	Custom character fields 9	No	String	100	Default to Null
	CUSTOM_CHAR10	Custom character fields 10	No	String	100	Default to Null
	CUSTOM_DATE1	Custom dates 1	No	Date CCYY- MM-DD	10	Default to Null
	CUSTOM_DATE2	Custom dates 2	No	Date CCYY- MM-DD	10	Default to Null
	CUSTOM_DATE3	Custom dates 3	No	Date CCYY- MM-DD	10	Default to Null
	CUSTOM_CODE1	Custom codes 1	No	String	30	Default to Null
	CUSTOM_CODE2	Custom codes 2	No	String	30	Default to Null
	CUSTOM_CODE3	Custom codes 3	No	String	30	Default to Null

TAX	Elements	Description	Required	Data Type	Max Field Length	Valid Values
	CUSTOM_CODE4	Custom codes 4	No	String	30	Default to Null
	CUSTOM_CODE5	Custom codes 5	No	String	30	Default to Null
	CUSTOM_CODE6	Custom codes 6	No	String	30	Default to Null
	CUSTOM_CODE7	Custom codes 7	No	String	30	Default to Null
	CUSTOM_CODE8	Custom codes 8	No	String	30	Default to Null
	CUSTOM_CODE9	Custom codes 9	No	String	30	Default to Null
	CUSTOM_CODE10	Custom codes 10	No	String	30	Default to Null
	CUSTOM_FLAG1	Custom flags 1	No	String	1	Default to Null
	CUSTOM_FLAG2	Custom flags 2	No	String	1	Default to Null
	CUSTOM_FLAG3	Custom flags 3	No	String	1	Default to Null
	CUSTOM_FLAG4	Custom flags 4	No	String	1	Default to Null
	CUSTOM_FLAG5	Custom flags 5	No	String	1	Default to Null
	CUSTOM_FLAG6	Custom flags 6	No	String	1	Default to Null
	CUSTOM_FLAG7	Custom flags 7	No	String	1	Default to Null
	CUSTOM_FLAG8	Custom flags 8	No	String	1	Default to Null
	CUSTOM_FLAG9	Custom flags 9	No	String	1	Default to Null
	CUSTOM_FLAG10	Custom flags 10	No	String	1	Default to Null
	LINETIME	Start or end time at LINE level.	No	datetime		Default to zero
	LOYALTY_NUM	Customer's Loyalty number	No	String	60	Default to Null
	COMMENTS	Free form comments	No	String	2000	Default to Null

TND Tag

Table 2-7 TND Tag

TND Beginning tag for a *TND* record There can be multiple instances of a *TND* tag within a *TRANSACTION* tag. There can only be one instance of each type of element within a *TND* tag

TND	Elements	Description	Required	Data Type	Max Field Length	Valid Values
	LINENUM	Line Number, unique within Transaction.	Yes	Numeric	10,0	1-999999999
	RECTYPE	Record Type	Yes	String	20	TND
	RECCODE	Record Code gives more information about transaction or record.	Yes	String	10	Error! Reference source not found.
	VOID_CODE	Indicates void status of record. Not voided = 0, Voided = 1, Voiding = 2	Yes	String	1	0,1,2
	ACCOUNTNU M	Credit Card number (always masked), Gift Card number, or Checking account number (masked)	No	String	30	
	ATTRIBUTE_C HAR1	Exchange In = 301, Out = 302, Even = 303, else 0	No	String	254	0, 301, 302, 303
	MANUAL_AU TH_CODE	How tender (<i>TND</i>) was authorized: Manual = 1, Electronic = 2, Voice = 3, none = 0	Yes	Number	5,0	0,1,2,3
	MANUAL_KEY ED_CODE	How <i>TND</i> was entered. Keyed = 1, Swiped = 2, else 0.	Yes	Number	5,0	0, 1, 2
	ATTRIBUTE_C ODE1	Layaway/ Special Order transaction type	Yes	Number	5,0	LINE Attribute_Code
	ATTRIBUTE_C ODE2	Coupon = 100, double coupon = 101, triple coupon = 102, quadruple coupon = 104, scan guarantee = 103, else 0	No	Number	5,0	0, 100, 101, 102, 103, 104
	ATTRIBUTE_C ODE3	Transaction or Record numeric attribute.	No	Number	5,0	TND ATTRIBUTE_CODE 3
	TENDER_AMO UNT	Tender amount	Yes	Number	20,5	
	AUTH_CODE	Authorization code from bank.	No	String	20	

TND	Elements	Description	Required	Data Type	Max Field Length	Valid Values
	RETURN_FLA G	Identifies record as a Return or not. If RETURN, then Y, else N.	Yes	String	1	Y/N

Note: The custom fields below can be used to hold Transaction level User Defined information.

Once a custom field at the Transaction level has been assigned a designated purpose, its purpose cannot be varied by Transaction Type (SALE, RETURN, EXCHANGE, and so on) but must be consistent throughout all types of transactions.

For instance, if you were to designate Custom_Char1 (at the Transaction level) as an Invoice number for a Sale, you could not use Custom_Char1 (at the Transaction level) to track a Driver's License # on a Tender Exchange.

- Custom_Num fields are meant to be used for data that will be used to perform mathematical calculations (such as sums and counts).
- Codes and numeric flags that require look ups should be mapped to a Custom_Code or Custom_Flag field not a Custom_Num field.
- If you have numeric data that is purely informational such as a Driver's License number or a phone number map that to a Custom_Char field.

1					
CUSTOM_NU M1	Custom numeric field 1	No	Number	20,5	Default to zero
CUSTOM_NU M2	Custom numeric field 2	No	Number	20,5	Default to zero
CUSTOM_NU M3	Custom numeric field 3	No	Number	20,5	Default to zero
CUSTOM_NU M4	Custom numeric field 4	No	Number	20,5	Default to zero
CUSTOM_NU M5	Custom numeric field 5	No	Number	20,5	Default to zero
CUSTOM_NU M6	Custom numeric field 6	No	Number	20,5	Default to zero
CUSTOM_NU M7	Custom numeric field 7	No	Number	20,5	Default to zero
CUSTOM_NU M8	Custom numeric field 8	No	Number	20,5	Default to zero
CUSTOM_NU M9	Custom numeric field 9	No	Number	20,5	Default to zero
CUSTOM_NU M10	Custom numeric field 10	No	Numeric	20,5	Default to zero
CUSTOM_CHA R1	Custom character fields 1	No	String	100	Default to Null
CUSTOM_CHA R2	Custom character fields 2	No	String	100	Default to Null

TND	Elements	Description	Required	Data Type	Max Field Length	Valid Values
	CUSTOM_CHA R3	Custom character fields 3	No	String	100	Default to Null
	CUSTOM_CHA R4	Custom character fields 4	No	String	100	Default to Null
	CUSTOM_CHA R5	Custom character fields 5	No	String	100	Default to Null
	CUSTOM_CHA R6	Custom character fields 6	No	String	100	Default to Null
	CUSTOM_CHA R7	Custom character fields 7	No	String	100	Default to Null
	CUSTOM_CHA R8	Custom character fields 8	No	String	100	Default to Null
	CUSTOM_CHA R9	Custom character fields 9	No	String	100	Default to Null
	CUSTOM_CHA R10	Custom character fields 10	No	String	100	Default to Null
	CUSTOM_DAT E1	Custom dates 1	No	Date CCYY- MM-DD	10	Default to Null
	CUSTOM_DAT E2	Custom dates 2	No	Date CCYY- MM-DD	10	Default to Null
	CUSTOM_DAT E3	Custom dates 3	No	Date CCYY- MM-DD	10	Default to Null
	CUSTOM_COD E1	Custom codes 1	No	String	30	Default to Null
	CUSTOM_COD E2	Custom codes 2	No	String	30	Default to Null
	CUSTOM_COD E3	Custom codes 3	No	String	30	Default to Null
	CUSTOM_COD E4	Custom codes 4	No	String	30	Default to Null
	CUSTOM_COD E5	Custom codes 5	No	String	30	Default to Null
	CUSTOM_COD E6	Custom codes 6	No	String	30	Default to Null
	CUSTOM_COD E7	Custom codes 7	No	String	30	Default to Null
	CUSTOM_COD E8	Custom codes 8	No	String	30	Default to Null
	CUSTOM_COD E9	Custom codes 9	No	String	30	Default to Null

TND	Elements	Description	Required	Data Type	Max Field Length	Valid Values
	CUSTOM_COD E10	Custom codes 10	No	String	30	Default to Null
	CUSTOM_FLA G1	Custom flags 1	No	String	1	Default to Null
	CUSTOM_FLA G2	Custom flags 2	No	String	1	Default to Null
	CUSTOM_FLA G3	Custom flags 3	No	String	1	Default to Null
	CUSTOM_FLA G4	Custom flags 4	No	String	1	Default to Null
	CUSTOM_FLA G5	Custom flags 5	No	String	1	Default to Null
	CUSTOM_FLA G6	Custom flags 6	No	String	1	Default to Null
	CUSTOM_FLA G7	Custom flags 7	No	String	1	Default to Null
	CUSTOM_FLA G8	Custom flags 8	No	String	1	Default to Null
	CUSTOM_FLA G9	Custom flags 9	No	String	1	Default to Null
	CUSTOM_FLA G10	Custom flags 10	No	String	1	Default to Null
	ACCOUNTNU M_HASH	Hashed Account Number	N	String	64	Default to Null
	ACCOUNTNU M_KEYID	Key ID for the Encrypted Account Number	No	String	10	Default to Null
	LINETIME	Start or end time at LINE level.	No	datetime		Default to zero
	CURRENCY_C ODE	ISO Standard Currency Code for Store Location	Yes	String	3	'USD' for US Dollars
	FOREIGN_CUR RENCY_CODE	ISO Standard Currency Code for Foreign currency in transaction.	No	String	3	Default to Null
	FOREIGN_AM OUNT	Original face amount of foreign currency tender	No	Numeric	20,5	Default to zero
	LOYALTY_NU M	Customer's Loyalty number	No	String	60	Default to Null
	COMMENTS	Free form comments	No	String	2000	Default to Null

PTC tag

Table 2-8 PTC Tag

Tag	Description
PTC	Beginning tag for a PTC record.
	There can only be one instance of each type of element within a PTC tag.

PTC	Elements	Description	Required	Data Type	Max Field Length	Valid Values
	LINENUM	Line Number, unique within Transaction.	Yes	Numeric	10,0	1- 9999999999
	RECTYPE	Record Type	Yes	String	20	PTC
	RECCODE	If money going out, 702, if money coming in, 701, else 700 (Unknown)	Yes	String	10	700, 701, 702
	VOID_CODE	Indicates void status of record. Not voided = 0, Voided = 1, Voiding = 2	Yes	String	1	0,1,2
	REASON_TYPE	Reason for transaction	No	String	60	
	EXTENDED_AMO UNT	Money amount.	Yes	Number	20,5	
	AUTH_CODE	Manager ID of authorizing manager.	No	String	20	
	RETURN_FLAG	Flag record as a Return or not. If RETURN, then Y, else N.	Yes	String	1	Y/N

Note: The custom fields below can be used to hold Transaction level User Defined information.

Once a custom field at the Transaction level has been assigned a designated purpose, its purpose cannot be varied by Transaction Type (SALE, RETURN, EXCHANGE, and so on) but must be consistent throughout all types of transactions.

For instance, if you were to designate Custom_Char1 (at the Transaction level) as an Invoice number for a Sale, you could not use Custom_Char1 (at the Transaction level) to track a Driver's License # on a Tender Exchange.

Custom_Num fields are meant to be used for data that will be used to perform mathematical calculations (such as sums and counts).

Codes and numeric flags that require look ups should be mapped to a Custom_Code or Custom_Flag field not a Custom_Num field.

If you have numeric data that is purely informational such as a Driver's License number or a phone number map that to a Custom_Char field.

CUSTOM_NUM 1	Custom numeric field 1	No	Number	20,5	Default to zero
CUSTOM_NUM 2	Custom numeric field 2	No	Number	20,5	Default to zero
CUSTOM_NUM 3	Custom numeric field 3	No	Number	20,5	Default to zero

PTC	Elements	Description	Required	Data Type	Max Field Length	Valid Values
	CUSTOM_NUM 4	Custom numeric field 4	No	Number	20,5	Default to zero
	CUSTOM_NUM 5	Custom numeric field 5	No	Number	20,5	Default to zero
	CUSTOM_NUM 6	Custom numeric field 6	No	Number	20,5	Default to zero
	CUSTOM_NUM 7	Custom numeric field 7	No	Number	20,5	Default to zero
	CUSTOM_NUM 8	Custom numeric field 8	No	Number	20,5	Default to zero
	CUSTOM_NUM 9	Custom numeric field 9	No	Number	20,5	Default to zero
	CUSTOM_NUM 10	Custom numeric field 10	No	Numeric	20,5	Default to zero
	CUSTOM_CHA R1	Custom character fields 1	No	String	100	Default to Null
	CUSTOM_CHA R2	Custom character fields 2	No	String	100	Default to Null
	CUSTOM_CHA R3	Custom character fields 3	No	String	100	Default to Null
	CUSTOM_CHA R4	Custom character fields 4	No	String	100	Default to Null
	CUSTOM_CHA R5	Custom character fields 5	No	String	100	Default to Null
	CUSTOM_CHA R6	Custom character fields 6	No	String	100	Default to Null
	CUSTOM_CHA R7	Custom character fields 7	No	String	100	Default to Null
	CUSTOM_CHA R8	Custom character fields 8	No	String	100	Default to Null
	CUSTOM_CHA R9	Custom character fields 9	No	String	100	Default to Null
	CUSTOM_CHA R10	Custom character fields 10	No	String	100	Default to Null
	CUSTOM_DAT E1	Custom dates 1	No	Date CCYY- MM-DD	10	Default to Null
	CUSTOM_DAT E2	Custom dates 2	No	Date CCYY- MM-DD	10	Default to Null
	CUSTOM_DAT E3	Custom dates 3	No	Date CCYY- MM-DD	10	Default to Null

PTC	Elements	Description	Required	Data Type	Max Field Length	Valid Values
	CUSTOM_COD E1	Custom codes 1	No	String	30	Default to Null
	CUSTOM_COD E2	Custom codes 2	No	String	30	Default to Null
	CUSTOM_COD E3	Custom codes 3	No	String	30	Default to Null
	CUSTOM_COD E4	Custom codes 4	No	String	30	Default to Null
	CUSTOM_COD E5	Custom codes 5	No	String	30	Default to Null
	CUSTOM_COD E6	Custom codes 6	No	String	30	Default to Null
	CUSTOM_COD E7	Custom codes 7	No	String	30	Default to Null
	CUSTOM_COD E8	Custom codes 8	No	String	30	Default to Null
	CUSTOM_COD E9	Custom codes 9	No	String	30	Default to Null
	CUSTOM_COD E10	Custom codes 10	No	String	30	Default to Null
	CUSTOM_FLA G1	Custom flags 1	No	String	1	Default to Null
	CUSTOM_FLA G2	Custom flags 2	No	String	1	Default to Null
	CUSTOM_FLA G3	Custom flags 3	No	String	1	Default to Null
	CUSTOM_FLA G4	Custom flags 4	No	String	1	Default to Null
	CUSTOM_FLA G5	Custom flags 5	No	String	1	Default to Null
	CUSTOM_FLA G6	Custom flags 6	No	String	1	Default to Null
	CUSTOM_FLA G7	Custom flags 7	No	String	1	Default to Null
	CUSTOM_FLA G8	Custom flags 8	No	String	1	Default to Null
	CUSTOM_FLA G9	Custom flags 9	No	String	1	Default to Null
	CUSTOM_FLA G10	Custom flags 10	No	String	1	Default to Null
	LINETIME	Start or end time at LINE level.	No	datetime		Default to zero

PTC	Elements	Description	Required	Data Type	Max Field Length	Valid Values
	COMMENTS	Free form comments	No	String	2000	Default to Null

INFO Tag

Table 2-9 INFO Tag

Tag Description	
-----------------	--

INFO Beginning tag for an *INFO* record

There can be multiple instances of an *INFO* tag within a *TRANSACTION* tag.

There can only be one instance of each type of element within an INFO tag

INFO	Elements	Description	Required	Data Type	Max Field Length	Valid Values
	LINENUM	Line Number, unique within Transaction.	Yes	Numeric	10,0	1-999999999
	RECTYPE	Record Type	Yes	String	20	INFO
	RECCODE	Record Code gives more information about transaction or record.	Yes	String	10	Error! Reference source not found.
	VOID_CODE	Indicates void status of record. Not voided = 0, Voided = 1, Voiding = 2	Yes	String	1	0,1,2
	ATTRIBUTE_ CHAR4	Layaway/ Special Order Account Number	No	String	254	By rectype
	REASON_TY PE	Reason for INFO record	No	String	60	
	EXTENDED_ AMOUNT	Extended amount	No	Number	20,5	
	TENDER_AM OUNT	Tender amount	No	Number	20,5	
	QUANTITY	Quantity	No	Number	8,3	
	ORIG_AMOU NT	Original selling price (PLU)	No	Numeric	20,5	
	ITEM	Stock Keeping Unit ID (SKU) for this item. Note: If the POS does not use SKUs; then place the UPC in this field. This field must match the value in the SKU field from the SKU master file.	No	String	60	SKU on which price inquiry is made

INFO Elemen	ts Description	Required	Data Type	Max Field Length	Valid Values
RETURI AG	N_FL Always 'N'	Yes	String	1	N

Note: The custom fields below can be used to hold Transaction level User Defined information.

Once a custom field at the Transaction level has been assigned a designated purpose, its purpose cannot be varied by Transaction Type (SALE, RETURN, EXCHANGE, and so on) but must be consistent throughout all types of transactions.

For instance, if you were to designate Custom_Char1 (at the Transaction level) as an Invoice number for a Sale, you could not use Custom_Char1 (at the Transaction level) to track a Driver's License # on a Tender Exchange.

- Custom_Num fields are meant to be used for data that will be used to perform mathematical calculations (such as sums and counts).
- Codes and numeric flags that require look ups should be mapped to a Custom_Code or Custom_Flag field not a Custom_Num field.
- If you have numeric data that is purely informational such as a Driver's License number or a phone number map that to a Custom_Char field.

CUSTOM_NUM1	Custom numeric field 1	No	Number	20,5	Default to zero
CUSTOM_NUM2	Custom numeric field 2	No	Number	20,5	Default to zero
CUSTOM_NUM3	Custom numeric field 3	No	Number	20,5	Default to zero
CUSTOM_NUM4	Custom numeric field 4	No	Number	20,5	Default to zero
CUSTOM_NUM5	Custom numeric field 5	No	Number	20,5	Default to zero
CUSTOM_NUM6	Custom numeric field 6	No	Number	20,5	Default to zero
CUSTOM_NUM7	Custom numeric field 7	No	Number	20,5	Default to zero
CUSTOM_NUM8	Custom numeric field 8	No	Number	20,5	Default to zero
CUSTOM_NUM9	Custom numeric field 9	No	Number	20,5	Default to zero
CUSTOM_NUM1 0	Custom numeric field 10	No	Numeric	20,5	Default to zero
CUSTOM_CHAR 1	Custom character fields 1	No	String	100	Default to Null
CUSTOM_CHAR 2	Custom character fields 2	No	String	100	Default to Null
CUSTOM_CHAR 3	Custom character fields 3	No	String	100	Default to Null
CUSTOM_CHAR 4	Custom character fields 4	No	String	100	Default to Null
CUSTOM_CHAR 5	Custom character fields 5	No	String	100	Default to Null
CUSTOM_CHAR 6	Custom character fields 6	No	String	100	Default to Null
CUSTOM_CHAR 7	Custom character fields 7	No	String	100	Default to Null

INFO	Elements De	escription	Required	Data Type	Max Field Length	Valid Values
	CUSTOM_CHAR 8	Custom character fields 8	No	String	100	Default to Null
	CUSTOM_CHAR 9	Custom character fields 9	No	String	100	Default to Null
	CUSTOM_CHAR 10	Custom character fields 10	No	String	100	Default to Null
	CUSTOM_DATE 1	Custom dates 1	No	Date CCYY- MM-DD	10	Default to Null
	CUSTOM_DATE 2	Custom dates 2	No	Date CCYY- MM-DD	10	Default to Null
	CUSTOM_DATE 3	Custom dates 3	No	Date CCYY- MM-DD	10	Default to Null
	CUSTOM_CODE 1	Custom codes 1	No	String	30	Default to Null
	CUSTOM_CODE 2	Custom codes 2	No	String	30	Default to Null
	CUSTOM_CODE 3	Custom codes 3	No	String	30	Default to Null
	CUSTOM_CODE 4	Custom codes 4	No	String	30	Default to Null
	CUSTOM_CODE 5	Custom codes 5	No	String	30	Default to Null
	CUSTOM_CODE 6	Custom codes 6	No	String	30	Default to Null
	CUSTOM_CODE 7	Custom codes 7	No	String	30	Default to Null
	CUSTOM_CODE 8	Custom codes 8	No	String	30	Default to Null
	CUSTOM_CODE 9	Custom codes 9	No	String	30	Default to Null
	CUSTOM_CODE 10	Custom codes 10	No	String	30	Default to Null
	CUSTOM_FLAG 1	Custom flags 1	No	String	1	Default to Null
	CUSTOM_FLAG 2	Custom flags 2	No	String	1	Default to Null
	CUSTOM_FLAG 3	Custom flags 3	No	String	1	Default to Null
	CUSTOM_FLAG	Custom flags 4	No	String	1	Default to Null
	CUSTOM_FLAG 5	Custom flags 5	No	String	1	Default to Null

INFO	Elements De	escription	Required	Data Type	Max Field Length	Valid Values
	CUSTOM_FLAG 6	Custom flags 6	No	String	1	Default to Null
	CUSTOM_FLAG 7	Custom flags 7	No	String	1	Default to Null
	CUSTOM_FLAG 8	Custom flags 8	No	String	1	Default to Null
	CUSTOM_FLAG 9	Custom flags 9	No	String	1	Default to Null
	CUSTOM_FLAG 10	Custom flags 10	No	String	1	Default to Null
	LINETIME	Start or end time at LINE level.	No	datetime		Default to zero
	LOYALTY_NUM	Customer's Loyalty number	No	String	60	Default to Null
	COMMENTS	Free form comments	No	String	2000	Default to Null

POS Data Written to XML File

Specific information pertaining to the expected Element Tags within the POS source file is available in Appendix A. Terminology is defined in the Glossary.

The customer is responsible for mapping their point of sale data to the elements in the XML file.

Sample XML file:

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<tns:POS_CANONICAL xmlns:tns="http://www.oracle.com/micros/canonical/pos">
   <tns:TRANSACTION>
      <tns:HDR>
         <tns:DIVISION>1</tns:DIVISION>
         <tns:STORENUM>223</tns:STORENUM>
         <tns:TRANSDATE>2015-10-13</tns:TRANSDATE>
         <tns:TRANSNUM>11129</tns:TRANSNUM>
         <tns:REGNUM>1</tns:REGNUM>
         <tns:TRANSTIME>132727</tns:TRANSTIME>
         <tns:RECTYPE>HDR</tns:RECTYPE>
         <tns:CASHIERNUM>1016</tns:CASHIERNUM>
         <tns:TRANSSTAT>COMPLETE</tns:TRANSSTAT>
         <tns:TRANSTYPE>SALE</tns:TRANSTYPE>
         <tns:EMPLOYEE SALE FLAG>N</tns:EMPLOYEE SALE FLAG>
         <tns:TRAINING_FLAG>N</tns:TRAINING_FLAG>
         <tns:CODE>037</tns:CODE>
         <tns:BUSINESS_DATE>2015-05-02</tns:BUSINESS_DATE>
         <tns:RECCODE>600</tns:RECCODE>
         <tns:FBNOSALE FLAG>N</tns:FBNOSALE FLAG>
         <tns:DURATION>3.15</tns:DURATION>
         <tns:CONFIG_VERSION>V.01.08</tns:CONFIG_VERSION>
         <tns:CURRENCY_CODE>USD</tns:CURRENCY_CODE>
      </tns:HDR>
      <tns:LTNE>
         <tns:LINENUM>15</tns:LINENUM>
         <tns:RECTYPE>SKU</tns:RECTYPE>
         <tns:RECCODE>01</tns:RECCODE>
         <tns:VOID_CODE>0</tns:VOID_CODE>
         <tns:ATTRIBUTE CHAR1>BOTTLE</tns:ATTRIBUTE CHAR1>
         <tns:OVERRIDE_AMOUNT>-7.11</tns:OVERRIDE_AMOUNT>
         <tns:EXTENDED_AMOUNT>1.88</tns:EXTENDED_AMOUNT>
         <tns:QUANTITY>1</tns:QUANTITY>
         <tns:AUTH CODE>100</tns:AUTH CODE>
         <tns:ORIG_AMOUNT>8.99</tns:ORIG_AMOUNT>
         <tns:ITEM>857170</tns:ITEM>
         <tns:OVERRIDE_TYPE>XX010</tns:OVERRIDE_TYPE>
         <tns:RETURN_FLAG>N</tns:RETURN_FLAG>
         <tns:LINETIME>2015-10-13 13:27:24.423</tns:LINETIME>
      </tns:LINE>
      <tns:LINE>
         <tns:LINENUM>75</tns:LINENUM>
         <tns:RECTYPE>SKU</tns:RECTYPE>
         <tns:RECCODE>01</tns:RECCODE>
         <tns:VOID_CODE>0</tns:VOID_CODE>
         <tns:ATTRIBUTE_CHAR1>GIFT WRAP $3.00</tns:ATTRIBUTE_CHAR1>
         <tns:ATTRIBUTE_CODE2>3</tns:ATTRIBUTE_CODE2>
         <tns:OVERRIDE_AMOUNT>-2.00</tns:OVERRIDE_AMOUNT>
```

```
<tns:EXTENDED AMOUNT>1.00</tns:EXTENDED AMOUNT>
         <tns:QUANTITY>1</tns:QUANTITY>
         <tns:AUTH_CODE>11419</tns:AUTH_CODE>
         <tns:ORIG_AMOUNT>3.00</tns:ORIG_AMOUNT>
        <tns:ITEM>368570</tns:ITEM>
         <tns:TAX_MODIFY_CODE>0</tns:TAX_MODIFY_CODE>
        <tns:OVERRIDE_TYPE>XX001</tns:OVERRIDE_TYPE>
         <tns:RETURN_FLAG>N</tns:RETURN_FLAG>
         <tns:CUSTOM_CHAR2>119</tns:CUSTOM_CHAR2>
         <tns:LINETIME>2015-10-13 13:27:36.131</tns:LINETIME>
      </tns:LINE>
      <tns:TAX>
        <tns:LINENUM>118</tns:LINENUM>
         <tns:RECTYPE>TAX</tns:RECTYPE>
         <tns:RECCODE>300</tns:RECCODE>
         <tns:VOID CODE>0</tns:VOID CODE>
        <tns:EXTENDED_AMOUNT>0.1900000</tns:EXTENDED_AMOUNT>
        <tns:RETURN_FLAG>N</tns:RETURN_FLAG>
        <tns:TAX_RATE>.065972</tns:TAX_RATE>
        <tns:TAX_AMOUNT>0</tns:TAX_AMOUNT>
        <tns:LINETIME>2015-10-13 13:27:29.404</tns:LINETIME>
      </tns:TAX>
      <tns:TND>
         <tns:LINENUM>111</tns:LINENUM>
         <tns:RECTYPE>TND</tns:RECTYPE>
         <tns:RECCODE>401</tns:RECCODE>
         <tns:VOID_CODE>0</tns:VOID_CODE>
         <tns:MANUAL_AUTH_CODE>0</tns:MANUAL_AUTH_CODE>
        <tns:MANUAL_KEYED_CODE>0</tns:MANUAL_KEYED_CODE>
         <tns:TENDER AMOUNT>3.07</tns:TENDER AMOUNT>
         <tns:RETURN_FLAG>N</tns:RETURN_FLAG>
         <tns:LINETIME>2015-10-13 13:30:22.637</tns:LINETIME>
         <tns:CURRENCY_CODE>USD</tns:CURRENCY_CODE>
      </tns:TND>
   </tns:TRANSACTION>
</tns:POS_CANONICAL>
```

Note: **Do Not Post** tags or records that are not populated.

Appendix A – Reference Tables

This section provides reference tables relevant to XBRi/API mapping.

Transaction Status

Table A-1 Transaction Status

TRANSSTAT	The Status of the Transaction
COMPLETE	The transaction was completed in the normal manner.
CANCEL	The transaction was voided before completion, sometimes referred to as a Mid Void. This could happen when a customer changes their mind and does not complete the transaction.
SUSPEND	The transaction was suspended or put on hold before completion to be retrieved at a later time. This could happen when a customer realizes they do not have money to pay for the purchase and has to go to an ATM or their car to get money. Better to suspend the transaction so the register can be used for other transactions and then resume the transaction when they return or cancel it if they do not return.
POSTVOID	The transaction was completed and then voided by another transaction. This status is applied ONLY to the original transaction that is getting post voided.
INCOMPLETE	A partial transaction was not completed in any normal manner. This could be caused by a power failure or by the cashier powering off the register.

Transaction Type

Table A-2 Transaction Type

TRANSTYPE	The overall activity taking place in the transaction.
SALE	Defined as at least one non-voided sales line item (merchandise or non-merchandise) with no net 'returned' line item(s) (a return item that has been line voided results in no net returns).
	Includes a sale of nothing but a gift card (see Appendix D), as well as a transaction with all lines voided and all lines are SALE items.
RETURN	Defined as at least one non-voided returned line item (merchandise or non-merchandise) with no net sales line item(s) (a sales line item that has been line voided results in no net sales).
	If the only thing returned is a gift card, this is usually considered to be a tender exchange rather than a return.
	If merchandise is returned and a gift card is returned but nothing is sold, the trans type is RETURN but the gift card sold should be flagged in attribute_code3 as a gift card cashed (206).
	Includes a transaction with all lines voided and all lines are RETURN items.

TRANSTYPE The overall activity taking place in the transaction. Defined as at least one non-voided sales line item (merchandise or non-EXCHANGE merchandise) and one non-voided returned line item. Exchange In: defined as an exchange where the net tender is positive (that is in to the store) Exchange Out: defined as an exchange where the net tender is negative (that is out to the customer) Exchange Even: defined as an exchange where the net tender is 0. Exchanges can become ambiguous when gift cards are involved, that is, if a gift card is returned and an item is bought, this is generally considered to be a Sale and the gift card is considered to be redeemed. If an item is returned and a gift card is sold (posts to the transaction log [tlog] in a merchandise or non-merchandise record) this would be considered to be a transtype EXCHANGE, but if the gift card were issued (posts to the tlog in a tender record) this would be considered to be a transtype RETURN. Includes a transaction with all lines voided and some lines are SALE items and the rest are RETURN items. NOSALE There is a function key on most registers that allows a cashier to open the register's drawer without processing a transaction. Often used to make change for a customer.

It could have a TRANSSTAT of COMPLETE, SUSPEND or CANCEL.

PAYMENT Defined as a transaction in which a customer is making a payment to

transaction.

POSTVOID

Defined as a transaction in which a customer is making a payment to reduce the balance on their House (store) charge / credit card account.

This refers specifically to a transaction that is voiding a previously completed

It is possible to see a reverse PAYMENT transaction. This occurs when the original PAYMENT transaction was mis-keyed and the amount entered was too high. A reverse PAYMENT is rung to net out the difference. This is done rather than post voiding the original transaction.

PETTYCASH Defined as transaction used for paying small charges, as for minor office supplies or deliveries

Often referred to as PAYIN or PAYOUT.

TRANSTYPE	The overall activity taking place in the transaction.
TNDEXCH	This refers to a transaction in which the customer is exchanging one tender (for example check, gift certificate, and merchandise credit or gift card) for cash. For example, a customer tenders a check and cash is given back. No items are purchased.
	Previously, tenders such as these could only be exchanged for cash, but more recently POS's have added functionality that allows them to exchange one tender for another. For example, a customer turns in a gift certificate and is issued credit to their credit card, and so on.
	For grocery POS's there is usually also the additional functionality of being able to cash coupons. Be aware that if a customer cashes a coupon that is considered to be a discount* on an item that was taxable, the tax that applied to that item is also refunded. You may see this activity when a customer forgets to hand in a coupon at the register and has the cashier at the register or at the customer service counter cash the coupon after the fact.
	*Store coupons are considered to be discounts because they are applied prior to tax and thus affect the amount of tax charged on a transaction. This differs from manufacturers coupons, which are applied after tax and do not affect the amount of tax charged on a transaction and are therefore considered to be tenders.
ADMIN	For an XBRi implementation this is used for enter training, exit training, price inquiry, clock in, clock out and timecard maintenance transactions only.

HDR Record Code

Parent tag: HDR

Table A-3 HDR Record Code

HDR RECCODES	Transaction Description	Related TRANSTYPE
600	Regular Sale, Return, Exchange, No Sale and House card payment	SALE, RETURN, EXCHANGE, NOSALE, PAYMENT (House Card)
603	Send Sale – Customer order for product not in store to be shipped to store or elsewhere. Order must be paid in full. May include Shipping Fee.	SALE, RETURN, EXCHANGE
604	Price Inquiry - cashier looking up price of an item.	ADMIN
605	Enter Training mode, posts as HDR only.	ADMIN
606	Exit Training mode, posts as HDR only.	ADMIN
607	PostVoid of an earlier transaction. HDR must contain information to identify original transaction: Store, Date, Register, Transaction Number, optionally Cashier.	POSTVOID
611	Clock In at start of shift, new type of work or end of a break.	ADMIN
686	Clock Out of cashier at end of shift, beginning of break or end of type of work	ADMIN
687	Timecard Maintenance, update or delete previous Clock In or Clock Out records	ADMIN

HDR RECCODES	Transaction Description	Related TRANSTYPE
701	Petty Cash In – money goes into register, perhaps change back from purchasing supplies.	PETTYCASH
702	Petty Cash Out – money leaves register, perhaps to purchase stamps or supplies.	PETTYCASH
800	Transaction is recognized as a tender exchange and the tender being exchanged is unknown.	TNDEXCH
801	Merchandise Credit is being exchanged for another tender.	TNDEXCH
802	Gift Card is being exchanged for another tender.	TNDEXCH
803	Gift Certificate is being exchanged for another tender.	TNDEXCH
804	Check is being exchanged for another tender.	TNDEXCH
805	Bottle Slip (refund of bottle deposit) is being exchanged for another tender.	TNDEXCH
806	Coin Slip from coin counting machine is being exchanged for another tender.	TNDEXCH
807	Coupon is being exchanged for another tender.	TNDEXCH
808	Miscellaneous Tender is being exchanged for another tender.	TNDEXCH
809	Lottery ticket is being exchanged for another tender.	TNDEXCH
810	Western Union is being exchanged for another tender.	TNDEXCH
811	Money Order is being exchanged for another tender.	TNDEXCH
812	Multiple Tenders are being exchanged for another tender.	TNDEXCH

LINE Record Code

Parent tag: LINE

Table A-4 LINE Record Code

RECTYPE	LINE Item Description
SKU	Regular Item that can be seen, felt and counted as inventory
LAYSKU	Regular Item purchased with multiple payments over time.
SOSKU	Regular Item that is not in store inventory, 'Special Ordered' to be shipped to a store or elsewhere.
NM	Item which is a fee or service that is not inventoried, Non Merchandise, such as gift wrapping or shipping.
LAYNM	Non Merchandise item that is part of a layaway time purchase, such as a deposit of shipping fee.
SONM	Non Merchandise fee or service that is part of a Special Order, such as shipping fee.

LINE Attribute_Code1

Parent tag: LINE, LDS, TDS, TAX

Parent tag Rectype: LAYSKU, SOSKU, LAYNM, SONM, LAYLDS, SOLDS, LAYTDS,

SOTDS, LAYTAX, SOTAX

Table A-5 LINE Attribute_Code1

Attribute_ Code1	Description – applies to Layaways and Special Orders only
0	Default. Not a Layaway or Special Order item. If no value, do not post element.
1	Initial order, product revenue recognized at pickup
2	Payment / Deposit, revenue always recognized
3	Cancel, product revenue recognized at pickup
5	Price Adjustment, product revenue recognized at pickup
8	Order pickup, product revenue was recognized at initial (#9) or cancel (#10)
9	Initial order, product revenue recognized immediately
10	Cancel order, product revenue loss recognized immediately
11	Order pickup, product revenue was not recognized at initial (#1), Cancel (#3) or Adjustment (#5)

LINE ATTRIBUTE_CODE3

Parent tag: LINE

Table A-6 LINE_ATTRIBUTE_CODE3

Attribute_ Code3	Description
0	If no value, do not post element.
1	Phone Card
2	Phone Card activation
3	Alcohol (primarily used in Grocery)
4	Tobacco (primarily used in Grocery)
5	Western Union sold
6	Lottery (primarily used in Grocery)
7	Money Order sold
8	Tender Cashing Fee
11	Miscellaneous
13	NSF Fees if treated as a Non Merch.
15	Sales Performance Incentive Fund (SPIF) on PTC SPIF records only

LDS RECCODE

Parent tag: LINE

Table A-7 LDS RECCODE

LDS RECCODES (10 Characters)	Construction Logic
'D'+dt	Where dt is the discount type from the line discount record. Discount type is a higher level grouping for the values in Reason Code. A discount type of Coupons might have reason codes for \$1, \$2, \$3 and Other.
'T'+dt	Where dt is the discount type from the line discount record. If the line discount is a Transaction discount that has been pro-rated back to the line item, use the T prefix.
'DEMP'	If no discount type in the tlog, use this for an Employee discount.
'DSC'	If no discount type in the tlog, use this for a Store Coupon discount.
'DLC'	If no discount type in the tlog, use this for a Loyalty Card discount.
'D'+dr	If no discount type in the tlog but there is a discount reason, use D and the discount reason.
'T'+dr	If the line discount is a Transaction discount that has been pro-rated back to the line item, and there is no discount type in the tlog but there is a discount reason, use T and the discount reason.
D00	Unknown discount
CPN	Coupon discount default

TDS RECCODE

Parent tag: TDS

Table A-8 TDS RECCODE

TDS RECCODE (10 Characters)	Construction Logic
'T'+dt	Where dt is the discount type from the transaction discount record. Discount type is a higher level grouping for the values in Reason Code. A discount type of Coupon might have reason codes for \$1, \$2, \$3 and Other.
'TEMP'	If no discount type in the tlog, use this for an Employee discount.
'TSC'	If no discount type in the tlog, use this for a Store Coupon discount.
'TLC'	If no discount type in the tlog, use this for a Loyalty Card discount.
'CPN'	Coupon discount default
'T00'	Unknown discount default

TND RECCODE

Parent tag: TND

Table A-9 TND RECCODE

TND RECCODE	Tender Types
400	Unknown
401	Cash
409	Debit
410	Check
411	Traveler's Check
412	Merchandise Credit (paper)
413	Store Check or Corp Check
415	Manufacturer Coupon
416	Gift Certificate (paper)
417	Mall Gift Certificate
418	Gift Card
420	House Card
422	Merchandise Credit (plastic) card
430	Visa
431	Master Card
432	AMEX
433	Discover
434	Diner's Club
435	JCB
436	EBT Cash
439	Unknown Credit Card
440	EBT Foodstamps
442	Paper Foodstamps
443	WIC
444	Pharmacy
445	Bottle Slip – issued when customer returns empty deposit bottles.
446	Coin Slip – issued by coin counting machine.
447	Payroll Check
448	Lottery Ticket
449	Western Union
450	enRoute Card - Air Canada credit card, discontinued by Diners Club in 2009

TND RECCODE	Tender Types
451	Government Voucher
452	Account Receivable
453	Float (Cash that each till starts with)
454	Foreign Currency Exchange
455	Money Order
456	Mobile Phone
457	PayPal

TND ATTRIBUTE_CODE3

Parent tag: TND

Table A-10 TND_ATTRIBUTE_CODE3

Attribute_ Code3	Associated Reccode	Tender Detail Attribute
0	ANY	If no value, do not post element.
203	415	Non-correlated coupon. Coupon is for a specific product and product is not in transaction. Grocery.
204	415	Correlated coupon. Coupon is for a specific product which IS in transaction. Grocery.
205	418	Gift Card sold.
206	418	Gift Card cashed.
207	418	Gift Card redeemed as tender in a purchase.
208	418	Gift Card Reloaded.
209	416	Gift Certificate sold.
210	416	Gift Certificate cashed.
211	416	Gift Certificate redeemed as tender in a purchase.
212	445	Bottle Slip issued when empty bottles are returned for deposit.
213	445	Bottle Slip cashed.
214	445	Bottle Slip redeemed as tender in a purchase.
215	446	Coin Slip cashed
216	446	Coin Slip redeemed
217	412, 422	Merchandise Credit issued, usually in a return or exchange, can be redeemed only in store or chain.
218	412, 422	Merchandise Credit cashed
219	412, 422	Merchandise Credit redeemed as tender in a purchase.
220	ANY	Miscellaneous Tender cashed
221	418	Gift Card issued, usually in a return or exchange, can be redeemed only in store or chain.

Attribute_ Code3	Associated Reccode	Tender Detail Attribute
222	416	Gift Certificate issued, usually in a return or exchange, can be redeemed only in store or chain.
223	448	Lottery Ticket redeemed as tender in a purchase.
224	448	Lottery Ticket cashed.
225	409	Cash back on debit card over and above purchase amount.
226	410	Cash back on check over and above purchase amount.
227	430-439	Cash back on credit card over and above purchase amount.
230	ANY	Tender Redeemed - generic
231	ANY	Tender Issued - generic
232	ANY	Tender Cashed - generic
234	ANY	Tender Reloaded – generic

TAX RECCODE

Parent tag: TAX

Table A-11 TAX RECCODE

TAX RECCODE	Tax Types
300	Regular Tax
301	Canadian Federal - GST (VAT)
302	Canadian Provincial - PST
303	Canadian Harmonized - HST (VAT)

INFO RECCODE

Parent tag: INFO

According to XBRi core functionality, INFO records are used to indicate Price Inquiry (in ADMIN transactions), and Layaway/Special Order balance (in regular transactions)

Table A-12 INFO RECCODE

INFO RECCODES	Construction Logic
00	Default if not defined
200	Price Inquiry (in ADMIN transactions)
601	Layaway balance record (in SALE, RETURN or EXCHANGE transactions)
602	Special Order balance record (in SALE, RETURN or EXCHANGE transactions)

Appendix B: Line Voids

Line items, line discounts, transaction discounts, taxes, tenders, petty cash, and info records can all be line voided. Voiding a record is like cancelling the record. Records are voided when the cashier mis-keys an item (or a customer changes their mind about buying an item) and the item must be removed from the transaction. Different Points of Sale (POS) handle line voids in different ways. Listed below are several ways in which a POS may handle line voids.

Scenario 1

The POS will not post a record that has been line voided so there is no way to load that information into XBRi.

Scenario 2

When a record is initially keyed at the register, the POS writes the record to memory. If that record is subsequently line voided, the POS will simply post a flag on the record in memory as having been voided so it will be ignored when totaling the transaction. The POS writes the record to the tlog/poslog with the flag set on.

Scenario 3

When a record is initially keyed at the register, the POS writes the record to memory. If that record is subsequently line voided, the POS will post a voided flag on the record in memory and will also create a voiding record that reverses the charges.

In this scenario you can tell which record was the voided record and which record was the voiding record.

Scenario 4

When a record is initially keyed at the register the POS writes the record to memory. If that record is subsequently line voided, the POS does not flag the original record or provide any link back to the original record but will create a void**ing** record that reverses the charges.

In this scenario you tell which record was the void**ing** record but you can't tell which record was the original record that was void**ed**.

Scenario 5

Some grocery POS's allow uncorrelated line voids. This occurs when the POS is line voiding an item that was purchased in a previous sale* The POS writes a voiding record with an indicator that it is an uncorrelated line void.

In this scenario there is no original record (that is voided record) in the transaction.

The XBRi data model requires matching records for line voids, that is a voided line and a voiding line that reverses the charges in the same transaction.

* This is different from post-voiding a transaction

In order to handle these various line void scenarios (noted above) and the XBRi data model requirements, the XBRi API allows two possible ways to structure the XML file for line voids.

Listed below are instructions for how to post line voids to the XBRi API XML file based on the above scenarios

Scenario 1 (POS does not post voided or voiding records)

Voided lines are not available from the POS so they will not be reported in XBRi.

Scenario 2

Set the VOID_CODE element to 1 on the voided record.

Post the voided record to the XML file.

Generate a voiding record from the voided record:

Set the VOID_CODE element to 2 on the voiding record.

Reverse the signs on the numeric fields OVERRIDE_AMOUNT,

LINE_DISCOUNT_AMOUNT, EXTENDED_AMOUNT, QUANTITY and

ORIG_AMOUNT on the void**ing** record so that the void**ing** and void**ed** records numeric values net to zero.

Post the voiding record to the XML file.

Scenario 3 (POS posts both voided and voiding records)

Set the VOID CODE element to 1 on the voided record.

Post the voided record to the XML file.

Set the VOID_CODE element to 2 on the void**ing** record.

Reverse the signs on the numeric fields OVERRIDE_AMOUNT,

LINE DISCOUNT AMOUNT, EXTENDED AMOUNT, QUANTITY and

ORIG_AMOUNT on the voiding record so that the voiding and voided records numeric values net to zero.

Post the void**ing** record to the XML file.

Scenario 4 (POS posts voided and voiding records but only identifies voiding record)

Set the VOID_CODE element to 0 on the voiding record.

If the voiding record does not have the reversed signs on the numeric fields, then reverse the signs of numeric fields OVERRIDE_AMOUNT, LINE_DISCOUNT_AMOUNT, EXTENDED_AMOUNT, QUANTITY, and ORIG_AMOUNT on the voiding record so that the voiding and voided records numeric values net to zero.

Post the voiding record to the XML file

*The XBRi API can only handle one line void scenario per POS.

**The expectation is that the voided record will post as a normal record, since there is no indicator from the POS that it has been voided.

Scenario 5 (Uncorrelated Line Void, no voided record in transaction)

Set the VOID_CODE element to 0 on the voiding record.

If the void**ing** record does not have the reversed signs on the numeric fields, then reverse the signs of numeric fields OVERRIDE_AMOUNT, LINE_DISCOUNT_AMOUNT, EXTENDED_AMOUNT, QUANTITY, and ORIG_AMOUNT on the void**ing** record so that the void**ing** and void**ed** records numeric values net to zero when summed at higher levels of cashier, register, transdate or store.

Post the voiding record to the XML file.*

*The expectation is that there is no voided record in the transaction.

Appendix C: Layaway, Special Orders, and Send Sale

A transaction is considered a **Layaway** or a **Special Order** only if it involves tracking merchandise and payments over time.

If a **Layaway** or **Special Order** must be paid in full on the initial set up of the order, and no further transactions are posted to poslog for interim payments or for merchandise pickup, **do not use** the Layaway/Special Order attributes and record codes; post the merchandise and fees as regular Sale item and non-merchandise records. Should such sale be reversed, the reversing transaction must post as a Return, not as a cancelled Layaway/Special Order.

When not using layaway and special order attributes and record codes:

A payment record for layaway and special order items should not be created. Layaway and special order payment records are only needed when using layaway/special order attributes to track layaway/special order activity over multiple transactions. (Tender records will still be expected)

If you wish to flag layaway and special order items for custom reporting, we recommend using a custom flag field.

There are generally 2 ways that revenue from items can be recognized in a Layaway or Special Order.

Pattern 1: When placing an item on Layaway/Special Order

If revenue is recognized when an item is placed on layaway/special order it must also be recognized if that item is cancelled.

Pattern2: When an item is picked up from a Layaway/Special Order.

TAX record with LAYTAX or SOTAX Reccode, that is the tax on Layaway or Special Order, should be generated only in the transaction where Layaway/Special Order is recognized.

A transaction is considered a **Send Sale** if a customer has purchased a merchandise in the store, paid for it in full, and requested to "send" it to a specific address. HDR record on a **Send Sale** transaction has Reccode 603, and should have some or all of "Ship_To_..." fields filled in, as they indicate where the sale is sent. No information specific to **Send Sale** should be included on any of the LINE records.

Appendix D: Gift Cards

Many POS devices consider Gift Cards sold as SKU's, but XBRi regards them as Tenders. A Gift Card sold should appear in POSCanonical.xml as a TND record with Reccode of 418 and Attribute_Code3 of 205. Thus, a transaction where one or more Gift Cards are sold, but no other merchandise is involved, will have no LINE records, but is still considered a SALE.

Return of a Gift Card is considered a Tender Exchange, unless some other merchandise or non-merchandise (that is, LINE records) is returned and/or sold within the same transaction:

Table D-1 Gift Card Activity, Sales and Returns

Transaction activity	Transaction type	Attribute Code3 on TND 418 record
Gift Card sold, no other activity	SALE	205
Gift Card and other items sold	SALE	205
Gift Card (and possibly other items) sold, some items returned	EXCHANGE	205
Gift Card returned, no other activity	TNDEXCH	206
Gift Card and other items returned	RETURN	206
Gift Card returned, some items sold	SALE	207
Gift Card and some other items returned, some items sold	EXCHANGE	207

On some POS devices Gift Card Reload is indistinguishable from Gift Card Sale, and by necessity appears in POSCanonical.xml as a Gift Card Sale. However if two can be distinguished, then XBRi recognizes the following additional transactions:

Table D-2 Gift Card Activity, Reloads

Transaction activity	Transaction type	Attribute Code3 on TND 418 record
Gift Card reloaded, no other activity	SALE	208
Gift Card reloaded and some items sold	SALE	208
Gift Card reloaded (and possibly some items sold), some items returned	EXCHANGE	208

Appendix E: Line Item Examples

LINE – SALE (can be considered generic LINE record)

LINE - SALE with a Line Discount

```
<tns:LINE>
   <tns:LINENUM>57</tns:LINENUM>
   <tns:RECTYPE>SKU</tns:RECTYPE>
   <tns:RECCODE>01</tns:RECCODE>
   <tns:VOID CODE>0</tns:VOID CODE>
   <tns:ATTRIBUTE CHAR1>SS MESH</tns:ATTRIBUTE CHAR1>
   <tns:MANUAL KEYED CODE>1</tns:MANUAL KEYED CODE>
   <tns:OVERRIDE_AMOUNT>0</tns:OVERRIDE_AMOUNT>
   <tns:LINE_DISCOUNT_AMOUNT>-40.00</tns:LINE_DISCOUNT_AMOUNT>
   <tns:EXTENDED_AMOUNT>130.00</tns:EXTENDED_AMOUNT>
   <tns:QUANTITY>2</tns:QUANTITY>
   <tns:ORIG_AMOUNT>150</tns:ORIG_AMOUNT>
   <tns:ITEM>0010915676</tns:ITEM>
   <tns:RETURN_FLAG>N</tns:RETURN_FLAG>
   <tns:LINETIME>2015-03-06 12:40:06.196</tns:LINETIME>
   <tns:LDS>
      <tns:LINENUM>71</tns:LINENUM>
      <tns:RECTYPE>LDS</tns:RECTYPE>
      <tns:RECCODE>D90</tns:RECCODE>
      <tns:VOID CODE>0</tns:VOID CODE>
      <tns:REASON_TYPE>LINE_ITEM_DISCOUNT</tns:REASON_TYPE>
      <tns:LINE_DISCOUNT_AMOUNT>-40</tns:LINE_DISCOUNT_AMOUNT>
      <tns:ITEM>0010915676</tns:ITEM>
   </tns:LDS>
</tns:LINE>
```

LINE – SALE, Voided and Voiding

```
ttns:LINE>
    <tns:LINENUM>53</tns:LINENUM>
    <tns:RECTYPE>SKU</tns:RECTYPE>
    <tns:RECCODE>01</tns:RECCODE>
    <tns:VOID_CODE>1</tns:VOID_CODE>
    <tns:ATTRIBUTE_CHAR1>SS MESH</tns:ATTRIBUTE_CHAR1>
    <tns:MANUAL_KEYED_CODE>1</tns:MANUAL_KEYED_CODE>
    <tns:EXTENDED_AMOUNT>75.00</tns:EXTENDED_AMOUNT>
    <tns:QUANTITY>1</tns:QUANTITY>
```

```
<tns:ORIG_AMOUNT>75</tns:ORIG_AMOUNT>
   <tns:ITEM>0010915676</tns:ITEM>
   <tns:RETURN_FLAG>N</tns:RETURN_FLAG>
   <tns:LINETIME>2015-03-10 11:32:32.713</tns:LINETIME>
</tns:LINE>
<tns:LINE>
  <tns:LINENUM>54</tns:LINENUM>
   <tns:RECTYPE>SKU</tns:RECTYPE>
   <tns:RECCODE>01</tns:RECCODE>
   <tns:VOID_CODE>2</tns:VOID_CODE>
   <tns:ATTRIBUTE CHAR1>SS MESH</tns:ATTRIBUTE CHAR1>
   <tns:MANUAL_KEYED_CODE>1</tns:MANUAL_KEYED_CODE>
   <tns:ATTRIBUTE_CODE4>1</tns:ATTRIBUTE_CODE4>
   <tns:EXTENDED AMOUNT>-75.00</tns:EXTENDED AMOUNT>
   <tns:OUANTITY>-1</tns:OUANTITY>
   <tns:ORIG AMOUNT>-75.00</tns:ORIG AMOUNT>
   <tns:ITEM>0010915676</tns:ITEM>
</tns:LINE>
```

LINE – SALE of a Non-Merchandise

```
<tns:LTNE>
   <tns:LINENUM>59</tns:LINENUM>
   <tns:RECTYPE>NM</tns:RECTYPE>
   <tns:RECCODE>03</tns:RECCODE>
   <tns:VOID_CODE>0</tns:VOID_CODE>
   <tns:ATTRIBUTE_CHAR1>+ITM_ITEM_StandardPQB</tns:ATTRIBUTE_CHAR1>
   <tns:MANUAL_KEYED_CODE>1</tns:MANUAL_KEYED_CODE>
   <tns:EXTENDED_AMOUNT>35.00</tns:EXTENDED_AMOUNT>
   <tns:ORIG_AMOUNT>35</tns:ORIG_AMOUNT>
   <tns:ITEM>25</tns:ITEM>
   <tns:RETURN_FLAG>N</tns:RETURN_FLAG>
   <tns:LINETIME>2015-03-06 14:26:22.580</tns:LINETIME>
   <tns:SHIP_TO_ LAST_NAME>Zoe Zebra</tns:SHIP_TO_ LAST_NAME>
   <tns:SHIP_TO_STATE>NJ</tns:SHIP_TO_STATE>
   <tns:SHIP TO ZIPCODE>07071</tns:SHIP TO ZIPCODE>
   <tns:SHIP TO CITY>Lyndhurst</tns:SHIP TO CITY>
</tns:IJTNE>
```

LINE - RETURN with a Price Override

```
<tng:I.TME>
  <tns:LINENUM>15</tns:LINENUM>
  <tns:RECTYPE>SKU</tns:RECTYPE>
  <tns:RECCODE>01</tns:RECCODE>
  <tns:VOID_CODE>0</tns:VOID_CODE>
  <tns:ATTRIBUTE_CHAR1>CSHMR</tns:ATTRIBUTE_CHAR1>
  <tns:REASON_TYPE>5</tns:REASON_TYPE>
  <tns:MANUAL_KEYED_CODE>2</tns:MANUAL_KEYED_CODE>
  <tns:ATTRIBUTE_CODE2>3</tns:ATTRIBUTE_CODE2>
  <tns:OVERRIDE_AMOUNT>200.00</tns:OVERRIDE_AMOUNT>
  <tns:EXTENDED AMOUNT>-250.00</tns:EXTENDED AMOUNT>
  <tns:OUANTITY>-2</tns:OUANTITY>
   <tns:ORIG_STORENUM>834</tns:ORIG_STORENUM>
   <tns:ORIG_TRANSDATE>2015-03-06</tns:ORIG_TRANSDATE>
   <tns:ORIG_REGNUM>2</tns:ORIG_REGNUM>
  <tns:ORIG_TRANSNUM>153414</tns:ORIG_TRANSNUM>
  <tns:ORIG_AMOUNT>-250</tns:ORIG_AMOUNT>
  <tns:ITEM>0017429382</tns:ITEM>
  <tns:TAX MODIFY CODE>0</tns:TAX MODIFY CODE>
  <tns:OVERRIDE_TYPE>2</tns:OVERRIDE_TYPE>
  <tns:RETURN_FLAG>Y</tns:RETURN_FLAG>
   <tns:LINETIME>2015-03-06 14:38:05.961</tns:LINETIME>
```

```
<tns:RETURN_VERIF_TYPE>V</tns:RETURN_VERIF_TYPE>
</tns:LINE>
```

LINE – RETURN with a Line Discount

```
<tng:I.TME>
  <tns:I.TNENIIM>12/tns:I.TNENIIM>
  <tns:RECTYPE>SKU</tns:RECTYPE>
  <tns:RECCODE>01</tns:RECCODE>
  <tns:VOID_CODE>0</tns:VOID_CODE>
  <tns:ATTRIBUTE_CHAR1>CHAIR</tns:ATTRIBUTE_CHAR1>
  <tns:REASON_TYPE>5</tns:REASON_TYPE>
  <tns:MANUAL_KEYED_CODE>2</tns:MANUAL_KEYED_CODE>
  <tns:LINE_DISCOUNT_AMOUNT>260.00</tns:LINE_DISCOUNT_AMOUNT>
  <tns:EXTENDED_AMOUNT>-470.00</tns:EXTENDED_AMOUNT>
  <tns:QUANTITY>-2</tns:QUANTITY>
   <tns:ORIG_STORENUM>834</tns:ORIG_STORENUM>
   <tns:ORIG_TRANSDATE>2015-03-06
   <tns:ORIG_REGNUM>2</tns:ORIG_REGNUM>
   <tns:ORIG_TRANSNUM>153414</tns:ORIG_TRANSNUM>
  <tns:ORIG_AMOUNT>-600</tns:ORIG_AMOUNT>
  <tns:ITEM>0010896033</tns:ITEM>
  <tns:RETURN_FLAG>Y</tns:RETURN_FLAG>
  <tns:LINETIME>2015-03-06 14:36:27.858</tns:LINETIME>
   <tns:RETURN_VERIF_TYPE>V</tns:RETURN_VERIF_TYPE>
  <tns:LDS>
     <tns:LINENUM>26</tns:LINENUM>
     <tns:RECTYPE>LDS</tns:RECTYPE>
     <tns:RECCODE>D01</tns:RECCODE>
     <tns:VOID CODE>0</tns:VOID CODE>
      <tns:REASON_TYPE>LINE_ITEM_DISCOUNT</tns:REASON_TYPE>
     <tns:LINE_DISCOUNT_AMOUNT>180</tns:LINE_DISCOUNT_AMOUNT>
      <tns:ITEM>0010896033</tns:ITEM>
   </tns:LDS>
</tns:LINE>
```

LINE -RETURN, Voided and Voiding

```
<tns:LINE>
   <tns:LINENUM>120</tns:LINENUM>
   <tns:RECTYPE>SKU</tns:RECTYPE>
   <tns:RECCODE>01</tns:RECCODE>
   <tns:VOID_CODE>1</tns:VOID_CODE>
   <tns:ATTRIBUTE CHAR1>BLAZER</tns:ATTRIBUTE CHAR1>
   <tns:REASON TYPE>1</tns:REASON TYPE>
   <tns:MANUAL KEYED CODE>2</tns:MANUAL KEYED CODE>
   <tns:EXTENDED_AMOUNT>-590.00</tns:EXTENDED_AMOUNT>
   <tns:QUANTITY>-2</tns:QUANTITY>
   <tns:ORIG_STORENUM>834</tns:ORIG_STORENUM>
   <tns:ORIG_TRANSDATE>2015-03-06</tns:ORIG_TRANSDATE>
   <tns:ORIG REGNUM>2</tns:ORIG REGNUM>
   <tns:ORIG TRANSNUM>153414</tns:ORIG TRANSNUM>
   <tns:ORIG AMOUNT>-590</tns:ORIG AMOUNT>
   <tns:ITEM>0016009862</tns:ITEM>
   <tns:RETURN_FLAG>Y</tns:RETURN_FLAG>
   <tns:LINETIME>2015-03-06 14:42:33.240</tns:LINETIME>
   <tns:RETURN_VERIF_TYPE>V</tns:RETURN_VERIF_TYPE>
</tns:IJTNE>
<tns:LINE>
   <tns:LINENUM>121</tns:LINENUM>
   <tns:RECTYPE>SKU</tns:RECTYPE>
   <tns:RECCODE>01</tns:RECCODE>
   <tns:VOID_CODE>2</tns:VOID_CODE>
```

```
<tns:ATTRIBUTE_CHAR1>BLAZER</tns:ATTRIBUTE_CHAR1>
<tns:REASON_TYPE>1</tns:REASON_TYPE>
<tns:MANUAL_KEYED_CODE>2</tns:MANUAL_KEYED_CODE>
<tns:ATTRIBUTE_CODE4>1</tns:ATTRIBUTE_CODE4>
<tns:EXTENDED_AMOUNT>590.00</tns:EXTENDED_AMOUNT>
<tns:QUANTITY>2</tns:QUANTITY>
<tns:ORIG_STORENUM>834</tns:ORIG_STORENUM>
<tns:ORIG_TRANSDATE>2015-03-06</tns:ORIG_TRANSDATE>
<tns:ORIG_REGNUM>2</tns:ORIG_REGNUM>
<tns:ORIG_TRANSNUM>153414</tns:ORIG_TRANSNUM>
<tns:ORIG_AMOUNT>590</tns:ORIG_AMOUNT>
<tns:ITEM>0016009862</tns:ITEM>
<tns:ITEM>0016009862</tns:ITEM>
<tns:RETURN_FLAG>Y</tns:RETURN_FLAG>
<tns:LINETIME>2015-03-06 14:42:33.240</tns:LINETIME>
<tns:RETURN_VERIF_TYPE>V</tns:RETURN_VERIF_TYPE></tns:LINETIME>
```

LINE – RETURN of a Non-Merchandise

```
<tng:ITME>
   <tns:LINENUM>15</tns:LINENUM>
   <tns:RECTYPE>NM</tns:RECTYPE>
   <tns:RECCODE>03</tns:RECCODE>
   <tns:VOID_CODE>0</tns:VOID_CODE>
   <tns:ATTRIBUTE_CHAR1>+ITM_ITEM_StandardPQB</tns:ATTRIBUTE_CHAR1>
   <tns:ATTRIBUTE_CHAR4>S0834002000038</tns:ATTRIBUTE_CHAR4>
   <tns:MANUAL_KEYED_CODE>2</tns:MANUAL_KEYED_CODE>
   <tns:EXTENDED AMOUNT>-35.00</tns:EXTENDED AMOUNT>
   <tns:ORIG STORENUM>834</tns:ORIG STORENUM>
   <tns:ORIG_TRANSDATE>2015-03-06</tns:ORIG_TRANSDATE>
   <tns:ORIG_REGNUM>2</tns:ORIG_REGNUM>
   <tns:ORIG_TRANSNUM>153416</tns:ORIG_TRANSNUM>
   <tns:ORIG_AMOUNT>-35</tns:ORIG_AMOUNT>
   <tns:ITEM>25</tns:ITEM>
   <tns:RETURN_FLAG>Y</tns:RETURN_FLAG>
   <tns:LINETIME>2015-03-10 10:45:08.660</tns:LINETIME>
   <tns:RETURN VERIF TYPE>V</tns:RETURN VERIF TYPE>
```

LINE - PAYMENT on a House Account (Non_Merchandise record)

```
<tns:LINE>
    <tns:LINENUM>49</tns:LINENUM>
    <tns:RECTYPE>NM</tns:RECTYPE>
    <tns:RECCODE>14</tns:RECCODE>
    <tns:VOID_CODE>0</tns:VOID_CODE>
    <tns:ATTRIBUTE_CHAR1>House Card Payment</tns:ATTRIBUTE_CHAR1>
    <tns:EXTENDED_AMOUNT>50.00</tns:EXTENDED_AMOUNT>
    <tns:ORIG_AMOUNT>50.00</tns:ORIG_AMOUNT>
    <tns:RETURN_FLAG>N</tns:RETURN_FLAG>
    <tns:LINETIME>2015-03-06 15:21:12.600</tns:LINETIME>
</tns:LINE</pre>
```

Appendix F: Tender (TND) Examples

TND - Tender, Cash

```
<tns:TND>
    <tns:LINENUM>100</tns:LINENUM>
    <tns:RECTYPE>TND</tns:RECTYPE>
    <tns:RECCODE>401</tns:RECCODE>
    <tns:VOID_CODE>0</tns:VOID_CODE>
    <tns:TENDER_AMOUNT>23.00</tns:TENDER_AMOUNT>
    <tns:RETURN_FLAG>N</tns:RETURN_FLAG>
    <tns:LINETIME>2015-03-06 14:29:49.273</tns:LINETIME>
    <tns:CURRENCY_CODE>USD</tns:CURRENCY_CODE>
</tns:TND>
```

TND – Tender, Debit card

TND - Tender, Gift card

Appendix G: Examples of Other Records

TDS - Transaction Discount

TAX – Tax record at Transaction level

PTC IN - Petty Cash In

```
<tns:PTC>
    <tns:LINENUM>10</tns:LINENUM>
    <tns:RECTYPE>PTC</tns:RECTYPE>
    <tns:RECCODE>701</tns:RECCODE>
    <tns:VOID_CODE>0</tns:VOID_CODE>
    <tns:REASON_TYPE>2</tns:REASON_TYPE>
    <tns:EXTENDED_AMOUNT>5.00</tns:EXTENDED_AMOUNT>
    <tns:LINETIME>2015-03-06T10:38:56.145</tns:LINETIME>
</tns:PTC>
```

PTC OUT - Petty Cash Out

```
<tns:PTC>
    <tns:LINENUM>10</tns:LINENUM>
    <tns:RECTYPE>PTC</tns:RECTYPE>
    <tns:RECCODE>702</tns:RECCODE>
    <tns:VOID_CODE>0</tns:VOID_CODE>
    <tns:REASON_TYPE>2</tns:REASON_TYPE>
    <tns:EXTENDED_AMOUNT>-5</tns:EXTENDED_AMOUNT>
    <tns:LINETIME>2015-03-06T10:38:56.145</tns:LINETIME>
</tns:PTC>
```

INFO – Layaway/Special Order Balance Inquiry

```
<tns:INFO>
  <tns:LINENUM>1</tns:LINENUM>
  <tns:RECTYPE>INFO</tns:RECTYPE>
  <tns:RECCODE>602</tns:RECCODE>
```

```
<tns:VOID_CODE>0</tns:VOID_CODE>
<tns:ATTRIBUTE_CHAR4>S028743782</tns:ATTRIBUTE_CHAR4>
<tns:RETURN_FLAG>N</tns:RETURN_FLAG>
<tns:LINETIME>2015-10-13 12:26:22.903</tns:LINETIME>
<tns:CURRENCY_CODE>USD</tns:CURRENCY_CODE>
<tns:BALANCE_AMOUNT>20.88</tns:BALANCE_AMOUNT>
</tns:INFO>
```

Glossary

CANCEL A transaction that is cancelled before it is completed. Sometimes called a transaction void or a mid void. This is an LP risk if a receipt is produced, because the customer mistakenly believes the transaction was completed, and the associate may pocket the tender, since no transaction is recorded in the register.

CASH BACK This term describes the activity that occurs when a customer uses an electronic tender (such as a debit card) or a check and pays more than the total amount of the transaction and is given cash back from the transaction.

CASHIER Individual who rings the transaction at POS.

CLASS Merchandise sub-grouping, usually class, gives more information about an item (Casual Slacks, Petite Dresses, and so on).

CORRELATED COUPON A coupon associated with a specific item in the sale (an uncorrelated coupon is a coupon not associated with any specific item). Tracking correlated as opposed to non-correlated coupons is not a part of XBRi core functionality.

DEPARTMENT Merchandise grouping - Casual. Petite, Men's, and so on.

DEPARMENT KEYED Many grocery POS's allow the cashier to key an item by department rather than scanning or manually keying the SKU. This is an LP risk, as a cashier can usually key the department and then enter any amount they desire. They could, for example, key in a friend's order from the meat department, and enter each item as only a dollar. This behavior is referred to as sweethearting.

EMPLOYEE TRANSACTION The individual making the purchase, exchange or return is an employee.

ENTRY METHOD Identifier used to show if a tender (such as a credit card) was swiped through the magnetic stripe reader, or if a discount, merchandise or non-merchandise item was scanned or manually keyed by the cashier.

EXCHANGE An exchange transaction is a transaction with at least 1 non-voided 'sales' line item or non-merchandise item and 1 non-voided 'returned' line item or non-merchandise item.

EXCHANGE EVEN An exchange transaction (that is at least 1 non-voided 'sales' line item and 1 non-voided 'returned' line item must occur within the transaction) with a net tender = \$0.

EXCHANGE IN An exchange transaction with a net tender > \$0 (money is paid in by customer).

EXCHANGE OUT An exchange transaction with a net tender < \$0 (money goes out to customer).

EXTENDED TOTAL (PLU Price + net overrides + net line discounts)* quantity.

GIFT CARD A plastic card, usually presented as a gift, having a magnetic strip, sold/issued by a bank or business authorizing the holder to buy goods or services.

GIFT CERTIFICATE A paper certificate usually presented as a gift that entitles the recipient to select merchandise of an indicated cash value at a commercial establishment.

HOUSE PAYMENT House payments are payments made toward the balance of a House account/credit card. House Payments are standalone transactions, that is, they cannot occur within a Sale, Return, or Exchange. They cannot occur within a Petty Cash transaction, and so on.

LAYAWAYS Merchandise held by a store for a specific customer for a defined time period. Customer is responsible for making payments for the merchandise in the layaway during the layaway period. A deposit may or may not be required. Sometimes an administrative layaway fee is charged. See Appendix C for more detail.

LAYAWAY CANCEL Cancellation of a layaway item.

LAYAWAY DEPOSIT/PAYMENT The amount of money a customer pays on opening a layaway account to have the merchandise held aside, or a subsequent payment against the layaway balance. This includes refunds on layaways when layaway items are cancelled.

LAYAWAY FEE An administrative fee charged for putting items on layaway. Generally non –refundable.

LAYAWAY INITIAL Adding an item to a Layaway.

LAYAWAY PICKUP Picking up an item from a layaway.

LAYAWAY ADJUSTMENT A price adjustment posted for one or more items in a Layaway. May occur if the price of one or more items in the Layaway changes before the Layaway is completed and the items are picked up.

LINE ITEM VOID Void of a single line item (SKU) or non-merchandise record (NM) within a transaction. This type of activity occurs when the cashier mis-keys an item (or a customer changes their mind about buying an item) and must back out that item from the transaction.

LINEITEM A record representing merchandise sold or returned.

MASTER FILES Brought into XBRi to provide supplemental information on Stores and Employees. For example, city and state where the store is located, employee name, and so on.

MERCHANDISE CARD A plastic card that represents store credit, having a magnetic strip, given to customers for returns or exchanges of merchandise when the customer does not have proof of the original purchase (that is, receipt).

MERCHANDISE CREDIT A paper voucher representing store credit, based on store policy, given to customers for returns or exchanges of merchandise when the customer does not have proof of the original purchase (that is, receipt).

NO SALE Function key on most registers that allows a cashier to open the register's drawer without keying a sale type of transaction.

NON MERCHANDISE Charges other than merchandise. (For example shipping fee, alterations, subscriptions, classes, repair fee, monograms).

PAYIN Petty cash transaction where money is coming into the store/register (ex. bad check restitution).

PAYMENT This transaction type refers to a transaction in which a customer is making a payment to reduce the balance on their House (store) charge / credit card account.

PAYOUT Petty cash transaction where money is going out of the store/register (employee advance, pay for cleaning services or store supplies, and so on).

PLU Price Look Up; most companies have a file of all valid SKUs with the price at which each should be sold.

POS The point of sale (POS) is the software application running on the registers at the store.

POST VOID A completed transaction that is later voided. (That is, voided post completion). A completed transaction can be post voided later in the same day. This provides dishonest associates with the ability to pretend that a valid transaction never happened, removing the transaction from the register and pocketing related tender.

Note: Post Voiding transactions should be handled in one of two ways:

- Do not post lineitem records for the Post Voiding transaction, the database processes will automatically create the detail from the original transaction. The Transaction record without the lineitem detail is still required.
- If posting the lineitem records in a Post Voiding transaction, they must be identical to the lineitem records in the Post Voided transaction, but with the sign reversed on all monetary fields and on the Quantity field.

PRICE OVERRIDE Enables the cashier to charge a price other than that authorized in the PLU file. If a line item has both a price override and a line discount the price override is always applied first because the override price is assumed to be a corrected price.

REASON CODES Identifiers captured to more clearly define returns, voids, discounts, and price overrides. Types of reason codes captured vary by POS.

RETURN At least one non-voided returned line item with no net sales line item(s) (a sales line item that has been line voided results in no net sales) and the net tender < 0.

SALE At least one non-voided 'sales' line item with no net 'returned' line item(s) (a return item that has been line voided results in no net returns) and the net tender > 0.

SALESPERSON/ASSOC Individual getting credit (commission) for the sale.

SEND SALE A customer who purchased merchandise in the store redirecting the merchandise to be sent to a specific address.

SKU Stock Keeping Unit - a unique number used to identify merchandise.

SPECIAL ORDERS Customized or out of stock merchandise ordered for customers. Many times a special order is a modification of a customer's layaway functionality. See Appendix C for more detail.

SUSPEND A Transaction that had been put On Hold. For example, a customer left their wallet in the car and has to go get it. Putting the transaction on hold allows the cashier to continue ringing other transactions while waiting for the customer to return, at which point the suspended transaction is retrieved. Many POS systems have the ability to hold an incomplete transaction in memory while the cashier moves on to other customers.

TAX EXEMPT Tax Exempt Status: When the local, state or federal tax authority issues a tax exempt number to an individual, an organization or a business. Tax Exempt transaction or item: A transaction containing one or more qualifying taxable items is sold to a customer without tax when the customer has a tax exempt status.

TAX OVERRIDE At ax override occurs when the tax rate on a taxable item is changed. This may occur when an item is bought in store in an area that has a different tax rate than the store at which the item is returned. The tax on the item then has to be overridden so as to return the correct amount to the customer.

TENDER EXCHANGE This refers to a transaction in which the customer is exchanging some tender for cash. For example check, gift certificate, merchandise credit or gift card is tendered by customer and cash is given back. No items are purchased.

It used to be that tenders such as these could only be exchanged for cash, but more recently POS's have added functionality that allows them to exchange one tender for another. For example, customer turns in a gift certificate and is issued credit to their credit card, and so on.

For grocery POS's, there is usually also the additional functionality of being able to cash coupons and discounts. Be aware that if a customer cashes a coupon or discount on an item that was taxable, the tax that applied to that item is also refunded. You may see this activity when a customer forgets to hand in a coupon at the register and has the cashier at the register or at the customer service counter cash the coupon after the fact.

TENDER TYPE Cash, check, credit card, gift certificate, and so on

TLOGS Daily data files produced by each store's POS system that detail transactions rung at the register.

TRANSACTION DISCOUNT Dollar or percent taken off an entire transaction; that is, not related to any specific SKU in the transaction.

UNCORRELATED VOID This occurs when an item that was not keyed during the transaction is line voided. This functionality is usually only available in grocery POS's. An uncorrelated void can occur along with other items in a transaction or it can be in a transaction by itself. The XBRI CORE implementation considers a standalone uncorrelated void to be a SALE.

Most XBRi grocery customers that have uncorrelated voids have explained it as follows: If a customer returns a damaged item that cannot be resold, they consider that to be a return. However, if the item can be put back on the shelf and resold they consider it to be an uncorrelated line void.

UPC Universal Product Code- A number and bar code that identify an individual consumer product.