



Confidential and Proprietary

Apriva POS Message Specification

XML Interface - EBT Addendum

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This document is Apriva POS Message Specification for XML Interface - EBT Addendum.

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OVERVIEW

APRIVATalk is the base foundation for APRIVA's gateway solution. The framework that makes up APRIVATalk has full flow control, data integrity, and scalability. APRIVATalk contains multiple layers which can be implemented using different levels of complexity. The focus of this document will be to enable the developer to begin using the APRIVA POS XML Protocol.

TRANSACTION TYPES

Overview

EBT Transactions

EBT transactions are for use with Electronic Benefit Cards.
<Ebt>... </Ebt>

PROCESSING FLAGS

Store and Forward Request

Description: This field is used to indicate to the server that the transaction was stored on the device and transmitted at a later time. When this tag is set to true the Transaction Date and Transaction Time tags are required.

Tag Format: <StoreAndForward>

Data Format: 0 (false) / 1 (true)

BASE FIELD DEFINITIONS

See AprivaPOS_XML Master document for general field definitions.

Data Field Requirements

- For online void transactions the STAN sent in field 11 is a new STAN and the STAN of the transaction being adjusted will be sent in field 63 0x2011
- Card holder data should always be protected. This includes masking any account number after it has been entered and never displaying track data.
- All invoice numbers sent to the host must be unique per batch.
- Card Is Present field should be sent on all manually entered credit transactions.
- The expiration date should be validated before sending on all transactions where the track data contains the expiration date or the merchant has manually entered the expiration date.
- All fields identified as required in the Apriva POS XML specification must be sent.

EBT MESSAGE SPECIFICATION

Message Types

The type of message plus the processing code allows the server to determine what type of transaction the server must process.

Type	Processing Code
Online EBT Food Stamp Sale ⁽¹⁾	FoodStampSale
Online EBT Food Stamp Refund ⁽²⁾	FoodStampRefund
Auth EBT Food Stamp Balance	FoodStampBalance
Void EBT Food Stamp Sale	FoodStampSaleVoid
Void EBT Food Stamp Refund	FoodStampRefundVoid
Online EBT Voucher Sale ⁽¹⁾	VoucherSale
Online EBT Voucher Refund ⁽²⁾	VoucherRefund
Void EBT Voucher Sale	VoucherSaleVoid
Void EBT Voucher Refund	VoucherRefundVoid
Online EBT Cash Sale ⁽¹⁾	CashSale
Auth EBT Cash Balance	CashBalance
Void EBT Cash Sale	CashSaleVoid

⁽¹⁾Note: Included in batch EBT Sales Count / Amount (*unless voided)

⁽²⁾Note: Included in batch EBT Refund Count / Amount (*unless voided)

Receipt Requirements

EBT transactions require the following information on all receipts:

1. Transaction Date Time
2. Transaction Number – Stan (Request)
3. Card Number
 - a. Last 4 digits of the Card Number (Request)
4. Amount (Request)
5. EBT Balance Amount (Response)
6. Approval Code (Response)
7. Response Text (Response)
8. Detailed Response Data – Required before the footer if present (Response)

Online EBT Food Stamp Sale / Refund

Description

EBT Food Stamp Sale and refund transactions.

Request Message

Name	Data Format	Required	Comments
Message Type		M	<i>Request</i>
Version		M	
Account Number	Text	C	Manual transaction only
Processing Code	See above	M	
Amount	Currency	M	
Stan	Short Number	M	New Stan assigned using standard Stan rules.
Transaction Time	Text	O	
Transaction Date	Text	O	
Entry Mode Type	See Constant Defs	M	
Entry Mode	See Constant Defs	M	
Track 2 Data	Text	C	Swiped Transaction only
Track 1 Data	Text	C	Swiped and Track 2 N/A
Clerk ID	Text	O	
Client Transaction Identifier	Text	O	
Pincode	Buffer	M	
Invoice Number		O	
Key Serial Number		M	
Reporting Data		O	
Processor Defined Data		C	
Card Info		C	Contains information about the encrypted card data

Response Message

Name	Data Format	Required	Comments
Message Type		M	<i>Response</i>
Version		M	
Processing Code	See above	M	
Stan	Short Number	C	
Transaction Time	Text	C	Processor Time
Transaction Date	Text	C	Processor Date
RRN	Text	O	
Client Transaction Identifier	Text	O	
Auth ID	Text	C	
Response Code	Text	M	
Response Txt		M	
EBT Response Data		O	
Transaction Result Data		O	
Detailed Response Data		O	Required on receipt if present
Detailed Merchant Response Data		O	Required on merchant receipt if present
Detailed Customer Response Data		O	Required on customer receipt if present
Token Data		C	

Void EBT Food Stamp Sale / Refund

Description

Void an EBT Food Stamp Sale or refund transaction.

Request Message

Name	Data Format	Required	Comments
Message Type		M	<i>Request</i>
Version		M	
Account Number	Text	C	Manual transaction only
Processing Code	See above	M	
Amount	Currency	M	
Stan	Short Number	M	New Stan assigned using standard Stan rules.
Transaction Time	Text	O	
Transaction Date	Text	O	
Entry Mode Type	See Constant Defs	M	
Entry Mode	See Constant Defs	M	
Track 2 Data	Text	C	Swiped Transaction only
Track 1 Data	Text	C	Swiped and Track 2 N/A
Clerk ID	Text	O	
Client Transaction Identifier	Text	O	
Pincode	Buffer	M	
Invoice Number		O	
Key Serial Number		M	
Void Transaction Data		M	Information related to the original transaction
Reporting Data		O	
Processor Defined Data		C	
Card Info		C	Contains information about the encrypted card data

Response Message

Name	Data Format	Required	Comments
Message Type		M	<i>Response</i>
Version		M	
Processing Code	See above	M	
Stan	Short Number	C	
Transaction Time	Text	C	Processor Time
Transaction Date	Text	C	Processor Date
Client Transaction Identifier	Text	O	
Response Code	Text	M	
Response Txt		M	

Online EBT Voucher Sale / Refund

Description

EBT Voucher Sale and refund transactions.

Request Message

Name	Data Format	Required	Comments
Message Type		M	<i>Request</i>
Version		M	
Account Number	Text	M	Voucher is Manual Only
Processing Code	See above	M	
Amount	Currency	M	
Stan	Short Number	M	New Stan assigned using standard Stan rules.
Transaction Time	Text	O	
Transaction Date	Text	O	
Entry Mode Type	See Constant Defs	M	
Entry Mode	See Constant Defs	M	
Auth ID	Text	M	
Client Transaction Identifier	Text	O	
Clerk ID	Text	O	
EBT Voucher Number		M	
Invoice Number		O	
Reporting Data		O	
Processor Defined Data		C	

Response Message

Name	Data Format	Required	Comments
Message Type		M	<i>Response</i>
Version		M	
Processing Code	See above	M	
Stan	Short Number	C	
Transaction Time	Text	C	Processor Time
Transaction Date	Text	C	Processor Date
RRN	Text	O	
Client Transaction Identifier	Text	O	
Auth ID	Text	C	
Response Code	Text	M	
Response Txt		M	
EBT Response Data		O	
Transaction Result Data		O	
Detailed Merchant Response Data		O	Required on merchant receipt if present
Detailed Customer Response Data		O	Required on customer receipt if present
Detailed Response Data		O	Required on receipt if present

Void EBT Voucher Sale / Refund

Description

Void EBT Voucher Sale or refund transactions.

Request Message

Name	Data Format	Required	Comments
Message Type		M	<i>Request</i>
Version		M	
Account Number	Text	M	Voucher is Manual Only
Processing Code	See above	M	
Amount	Currency	M	
Stan	Short Number	M	New Stan assigned using standard Stan rules.
Transaction Time	Text	O	
Transaction Date	Text	O	
Entry Mode Type	See Constant Defs	M	
Entry Mode	See Constant Defs	M	
Auth ID	Text	M	
Client Transaction Identifier	Text	O	
Clerk ID	Text	O	
EBT Voucher Number		M	
Void Transaction Data		M	Original Transaction Information
Invoice Number		O	
Reporting Data		O	
Processor Defined Data		C	

Response Message

Name	Data Format	Required	Comments
Message Type		M	<i>Response</i>
Version		M	
Processing Code	See above	M	
Stan	Short Number	C	
Transaction Time	Text	C	Processor Time
Transaction Date	Text	C	Processor Date
Client Transaction Identifier	Text	O	
Response Code	Text	M	
Response Txt		M	

Online EBT Cash Sale

Description

EBT Cash Sale transactions.

Request Message

Name	Data Format	Required	Comments
Message Type		M	<i>Request</i>
Version		M	
Account Number	Text	C	Manual transaction only
Processing Code	See above	M	
Amount	Currency	M	
Stan	Short Number	M	New Stan assigned using standard Stan rules.
Transaction Time	Text	O	
Transaction Date	Text	O	
Entry Mode Type	See Constant Defs	M	
Entry Mode	See Constant Defs	M	
Track 2 Data	Text	C	Swiped Transaction only
Track 1 Data	Text	C	Swiped and Track 2 N/A
Clerk ID	Text	O	
Client Transaction Identifier	Text	O	
Pincode	Text	M	
Additional Amounts		O	
Invoice Number		O	
Key Serial Number		M	
Reporting Data		O	
Processor Defined Data		C	
Token Data		C	Sent if available
Card Info		C	Contains information about the encrypted card data

Response Message

Name	Data Format	Required	Comments
Message Type		M	<i>Response</i>
Version		M	
Processing Code	See above	M	
Stan	Short Number	C	
Transaction Time	Text	C	Processor Time
Transaction Date	Text	C	Processor Date
RRN	Text	O	
Auth ID	Text	C	
Client Transaction Identifier	Text	O	
Response Code	Text	M	
Response Txt		M	
EBT Response Data		O	
Transaction Result Data		O	
Detailed Merchant Response Data		O	Required on merchant receipt if present
Detailed Customer Response Data		O	Required on customer receipt if present
Token Data		C	
Detailed Response Data		O	Required on receipt if

			present
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Void EBT Cash Sale

Description

Void EBT Cash Sale transactions.

Request Message

Name	Data Format	Required	Comments
Message Type		M	<i>Request</i>
Version		M	
Account Number	Text	C	Manual transaction only
Processing Code	See above	M	
Amount	Currency	M	
Stan	Short Number	M	New Stan assigned using standard Stan rules.
Transaction Time	Text	O	
Transaction Date	Text	O	
Entry Mode Type	See Constant Defs	M	
Entry Mode	See Constant Defs	M	
Track 2 Data	Text	C	Swiped Transaction only
Track 1 Data	Text	C	Swiped and Track 2 N/A
Clerk ID	Text	O	
Client Transaction Identifier	Text	O	
Pincode	Text	M	
Additional Amounts		O	
Invoice Number		O	
Void Transaction Data		M	Original transaction information
Key Serial Number		M	
Reporting Data		O	
Processor Defined Data		C	
Token Data		C	Sent if available
Card Info		C	Contains information about the encrypted card data

Response Message

Name	Data Format	Required	Comments
Message Type		M	<i>Response</i>
Version		M	
Processing Code	See above	M	
Stan	Short Number	C	
Transaction Time	Text	C	Processor Time
Transaction Date	Text	C	Processor Date
Client Transaction Identifier	Text	O	
Response Code	Text	M	
Response Txt		M	
Detailed Response Data		O	Required on receipt if present

Online Food Stamp / Cash Balance

Description

This transaction requests the EBT Balance for a Food Stamp or Cash card.

Request Message

Name	Data Format	Required	Comments
Message Type		M	<i>Request</i>
Version		M	
Account Number	Text	C	Manual transaction only
Processing Code	See above	M	
Stan	Short Number	M	New Stan assigned using standard Stan rules.
Transaction Time	Text	O	
Transaction Date	Text	O	
Entry Mode Type	See Constant Defs	M	
Entry Mode	See Constant Defs	M	
Track 2 Data	Text	C	Swiped Transaction only
Track 1 Data	Text	C	Swiped and Track 2 N/A
Clerk ID	Text	O	
Client Transaction Identifier	Text	O	
Pincode	Text	M	
Invoice Number		O	
Key Serial Number		M	
Reporting Data		O	
Processor Defined Data		C	
Card Info		C	Contains information about the encrypted card data

Response Message

Name	Data Format	Required	Comments
Message Type		M	<i>Response</i>
Version		M	
Processing Code	See above	M	
Stan	Short Number	C	
Transaction Time	Text	C	Processor Time
Transaction Date	Text	C	Processor Date
RRN	Text	O	
Auth ID	Text	C	
Client Transaction Identifier	Text	O	
Response Code	Text	M	
Response Txt		M	
EBT Response Data		O	
Transaction Result Data		O	
Detailed Merchant Response Data		O	Required on merchant receipt if present
Detailed Customer Response Data		O	Required on customer receipt if present
Detailed Response Data		O	Required on receipt if present

ADDITIONAL TAG SPECIFICATION

Field Definitions

Additional Amounts

Description: This field is used to hold all the information amounts that can be reflected within the total amount of the transaction.

Tag Format: <AdditionalAmounts>

Tip Amount

Description: This is the amount of tip for this transaction. This is available for any transaction that takes tip such as restaurant or retail with tip.

Sub Tag Format: <Tip>

Value Format: Currency

Cash Back Amount

Description: This is the amount of cash back for this transaction. This is available for debit sale and EBT cash benefit sale transactions.

Sub Tag Format: <CashBack>

Value Format: Currency

Fee / Surcharge Amount

Description: This is a fee amount that is part of the total amount.

Sub Tag Format: <FeeOrSurcharge>

Value Format: Currency

Food Amount

Description: This is a food amount that is part of the total amount.

Sub Tag Format: <Food>

Value Format: Currency

Beverage Amount

Description: This is a beverage amount that is part of the total amount.

Sub Tag Format: <Beverage>

Value Format: Currency

Entered Amount

Description: The entered amount is the actual amount of a restaurant transaction prior to tip padding.

Sub Tag Format: <Entered>

Value Format: Currency

Original Authorization Amount

Description: The original authorization amount is the actual authorized amount that was returned to the device as part of the sale request. It is only required at upload in order to recreate the transaction in the case it was lost.

Sub Tag Format: <OriginalAuthorization>

Value Format: Currency

EBT Response Data

Description: This field is used to relay information back to the terminal when an ebt transaction is ran.

Tag Format: <EbtResponse>

EBT Response Code

Description: Any specific EBT Response codes that need to be displayed on the receipt will be passed in this field.

Sub Tag Format: <ResponseCode>

EBT Balance Amount

Description: The balance of the EBT card received from the processor so it can be printed on the receipt.

Sub Tag Format: <BalanceAmount>

EBT Voucher Number

Description: The voucher number entered for an EBT Voucher transaction.

Tag Format: <EBTVoucherNumber>

Key Serial Number

Description: The Key serial number is used by debit transactions.

Tag Format: <KeySerialNumber>

CONSTANT DEFINITIONS

*Please note that the values listed below are case sensitive.

Card Type Definitions

Type	Value
EBT	EBT

EDC Types

Type	Value
EBT	3

Entry Mode

Type	Value
Standard/ Contactless / Smart Card Devices	
Manual	Manual
Track 1	Track1
Track 2	Track2

Entry Mode Type

Type	Value
Standard	Standard
Contactless	Contactless
Contactless w/ RFID (PayPass)	PayPass
Smart Card Chip Card	SmartChipCard
Smart Card Non-Chip Card	SmartNonChipCard

Transaction ID

EBT

Name	Value
Sale	17
Voucher Sale	18
Refund	19
Voucher Refund	20
Cash Sale	21
Food Stamp Balance	22
Cash Balance	23

Transaction Type

Type	Value
EBT transaction	EBT

APPENDIX A - APRIVA CERTIFICATION INFORMATION

Overview

APRIVA is a gateway to many different processor systems. In order to assist in the testing of this messaging API's implementation, the following information should be helpful.

See master credit sepecification for general trigger amounts.

Test Processor Interface

Any transaction for \$8.97 or between \$55.01 and \$60.00–

A balance amount of \$333.00 will be returned.

Any successful transaction –

A balance amount of \$2.05 will be returned if not noted elsewhere to the contrary.

DOCUMENT MODIFICATION HISTORY

Date	Version	Changes Made	Editor
9/15/15	5.0.9	Client Transaction Identifier added to all requests. Void of EBT transactions added.	PH
4/29/15	5.0.8	Added Test Processor Trigger Amounts	PH
12/30/14	5.0.7	External Version Created	PH